RESOLUTION NO. 2022- 2939

A RESOLUTION OF THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA, APPROVING THE PURCHASE OF PORTABLE RADIOS AND RELATED SERVICES FROM MOTOROLA SOLUTIONS, INC. FOR THE TOWN'S POLICE DEPARTMENT; FINDING THAT THE PURCHASE IS EXEMPT FROM COMPETITIVE BIDDING PURSUANT TO SECTION 3-13(3) OF THE TOWN CODE; PROVIDING FOR AUTHORIZATION; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Town of Surfside (the "Town") is in need of secure, interoperable, and reliable radio communications equipment to replace obsolete equipment which is no longer produced nor supported by the manufacturer; and

WHEREAS, the purchase of new portable radio communications equipment is necessary to support the operation, maintenance, and modernization of the Police Department radio system and emergency operations of the Police Department; and

WHEREAS, pursuant to Resolution No. R-682-22, Miami-Dade County entered into Contract No. D-10253 (the "County Contract") for the purchase of certain equipment from Motorola Solutions, Inc. ("Motorola"), including the purchase of APX NEXT Portable Radios (the "Portable Radios"), and

WHEREAS, Motorola has agreed to extend the pricing, terms, and conditions of the County Contract to the Town for the Portable Radios; and

WHEREAS, Section 3-13(3) of the Town Code of Ordinances (the "Town Code") provides that purchases made under state general service administration contracts, federal, county or other governmental contracts or competitive bids with other governmental agencies are exempt from the competitive bidding procedures of the Town Code (the "Code"); and

WHEREAS, the Town Commission desires to enter into an agreement with Motorola, in substantially the form attached hereto as Exhibit "A," for the purchase of (i) thirty-five (35) Portable Radios in the amount of \$277,986.95, (ii) the purchase of related services, including (a) APX NEXT SmartServices & Warranty in the amount of \$19,404.00 and (b) CommandCentral Aware Platform services in the amount of \$8,440.00 (collectively, the "Services"), all utilizing the terms, conditions and pricing of the County Contract; and

WHEREAS, the Town Commission finds that the purchase of the Portable Radios and the Services under the County Contract is exempt from competitive bidding pursuant to Section 3-13(3) of the Code; and.

WHEREAS, the Town Commission finds that this Resolution is in the best interest and welfare of the residents of the Town.

NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA, AS FOLLOWS:

<u>Section 1.</u> Recitals. The above-stated recitals are true and correct and are incorporated herein by this reference.

Section 2. Approval of Agreement for Purchase of Portable Radios and Services. The Town Commission hereby approves the Agreement with Motorola for the purchase of the Portable Radios and Services.

<u>Section 3.</u> <u>Authorization to Execute Agreement.</u> The Town Manager is hereby authorized to execute the Agreement, in substantially the form attached hereto as Exhibit "A," with Motorola on behalf of the Town in an amount not to exceed \$277,986.95.

Section 4. Exemption from Competitive Bidding. Pursuant to Section 3-13(3) of the Town's Code, the Town Commission finds that the purchase of the Portable Radios and the Services is exempt from competitive bidding.

Section 5. Implementation. The Town Manager and Town Officials are hereby authorized to take any and all actions which are necessary to implement the purchase of the Portable Radios and Services and the purposes of this Resolution

<u>Section 6.</u> <u>Effective Date.</u> This Resolution shall become effective immediately upon adoption.

PASSED AND ADOPTED this 15th day of November, 2022.

Motion By: Vice Mayor Rose

Second By: Commissioner Meischeid

FINAL VOTE ON ADOPTION:

Commissioner Fred Landsman

Commissioner Marianne Meischeid

Commissioner Nelly Velasquez

Vice Mayor Jeffrey Rose

Mayor Shlomo Danzinger

Yes

Yes

Yes

Shlomo Danzinger, Mayor

ATTEST:

Sandra McCready, MMC

Town Clerk

APPROVED AS TO FORM AND LEGALITY FOR THE USE AND BENEFIT OF THE TOWN OF SURFSIDE ONLY:

Weiss Serota Helfman Cole & Bierman, P.L.

Town Attorney

PROFESSIONAL SERVICES AGREEMENT BETWEEN THE TOWN OF SURFSIDE AND MOTOROLA SOLUTIONS, INC.

THIS AGREEMENT (this "Agreement") is made effective as of the	day of
, 2022 (the "Effective Date"), by and between the T	OWN OF
SURFSIDE, FLORIDA, a Florida municipal corporation, (the "Town"), and MO	TOROLA
SOLUTIONS, INC., a Delaware for-profit corporation authorized to do business	in Florida
(hereinafter, the "Contractor"). Collectively, the Town and the Contractor are re-	eferred to
as the "Parties."	

WHEREAS, the Town is in need of secure, interoperable, and reliable radio communications equipment to replace obsolete equipment which is no longer produced nor supported by the manufacturer; and

WHEREAS, pursuant to Resolution No. R-682-22, Miami-Dade County entered into Contract No. D-10253 (the "County Contract") for the purchase of certain radio equipment and related accessories and services from Motorola Solutions, Inc. ("Contractor"); and

WHEREAS, pursuant to the terms, conditions, and rates of the County Contract, the Town desires to purchase 35 APX NEXT Portable Radios in the amount of \$277,986.95 (the "Portable Radios"), together with (a) APX NEXT SmartServices & Warranty in the amount of \$19,404.00 and (b) CommandCentral Aware Platform services in the amount of \$8,440.00 (collectively, the "Services"), from the Contractor; and

WHEREAS, the Parties wish to incorporate the terms and conditions of the County Contract in this Agreement, except as otherwise modified or amended herein; and

WHEREAS, Section 3-13(3) of the Town Code of Ordinances provides that purchases made under state service administration contracts, federal, county or other governmental contracts, competitive bids with other governmental agencies or through cooperative purchasing are exempt from competitive bidding; and

WHEREAS, pursuant to Section 3-13(3) of the Town Code, the Town desires to engage the Contractor to implement the Project and provide the deliverables as specified below.

NOW, THEREFORE, in consideration of the mutual covenants and conditions contained herein, the Town and the Contractor agree as follows:

1. <u>Incorporation of Contract.</u> The terms and conditions of the County Contract are incorporated as though fully set forth herein. Except as otherwise specifically set forth or modified herein, all terms in the County Contract are hereby ratified and affirmed and shall remain unmodified and in full force and effect in accordance with its terms.

- 2. <u>Conflicts; Order of Priority.</u> This document without exhibits is referred to as the "Agreement." In the event of a conflict between the terms of this Agreement and any exhibits or attachments hereto, or any documents incorporated herein by reference, the conflict shall be resolved in the following order of priorities and the more stringent criteria for performance of the Services shall apply:
 - A. First Priority: Agreement;
 - B. Second Priority: E-Verify Affidavit;
 - **C.** Third Priority: Exhibit A County Contract.
 - **D.** Fourth Priority: Exhibit B Motorola Solutions, Inc. Quote
- 3. <u>Defined Terms</u>. All initial capitalized terms used in this Agreement shall have the same meaning as set forth in the County Contract unless otherwise provided in this Agreement. All references to Miami-Dade County shall be replaced with the Town of Surfside where applicable.
- 4. <u>Counterparts</u>. This Agreement may be executed in several counterparts, each of which shall be deemed an original and such counterparts shall constitute one and the same instrument.
- 5. <u>Compensation.</u> Compensation to the Contractor for the purchase of the Portable Radios shall be in an amount not to exceed \$277,986.95, in accordance with the rates of the County Contract attached hereto as Exhibit "A" and the Motorola Quote attached hereto as Exhibit "B."

6. Ownership and Access to Records and Audits.

- A. Contractor acknowledges that all inventions. innovations. improvements, developments. methods. designs, analyses. drawings, reports, compiled information, and all similar or related information (whether patentable or not) which relate to Services to the Town which are conceived, developed or made by Contractor during the term of this Agreement ("Work Product") belong to the Town. Contractor shall promptly disclose such Work Product to the Town and perform all actions reasonably requested by the Town (whether during or after the term of this Agreement) to establish and confirm such ownership (including, without limitation, assignments, powers of attorney and other instruments).
- B. Contractor agrees to keep and maintain public records in Contractor's possession or control in connection with Contractor's performance under this Agreement. The Town Manager or her designee shall, during the term of this Agreement and for a period of three (3) years from the date of termination of this Agreement, have access to and the right to examine and audit any records of the

Contractor involving transactions related to this Agreement. Contractor additionally agrees to comply specifically with the provisions of Section 119.0701, Florida Statutes. Contractor shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed, except as authorized by law, for the duration of the Agreement, and following completion of the Agreement until the records are transferred to the Town.

- C. Upon request from the Town's custodian of public records, Contractor shall provide the Town with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided by Chapter 119, Florida Statutes, or as otherwise provided by law.
- **D.** Unless otherwise provided by law, any and all records, including but not limited to reports, surveys, and other data and documents provided or created in connection with this Agreement are and shall remain the property of the Town.
- E. Upon completion of this Agreement or in the event of termination by either party, any and all public records relating to the Agreement in the possession of the Contractor shall be delivered by the Contractor to the Town Manager, at no cost to the Town, within seven (7) days. All such records stored electronically by Contractor shall be delivered to the Town in a format that is compatible with the Town's information technology systems. Once the public records have been delivered upon completion or termination of this Agreement, the Contractor shall destroy any and all duplicate public records that are exempt or confidential and exempt from public records disclosure requirements.
- **F.** Any compensation due to Contractor shall be withheld until all records are received as provided herein.
- **G.** Contractor's failure or refusal to comply with the provisions of this section shall result in the immediate termination of this Agreement by the Town.
- H. Notice Pursuant to Section 119.0701(2)(a), Florida Statutes. IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS: SANDRA MCCREADY, MMC, 9293

HARDING AVENUE, SURFSIDE, FL 33154, 305-861-4863, SMCREADY@TOWNOFSURFSIDEFL.GOV.

- 7. <u>Notices/Authorized Representatives</u>. Any notices required by this Agreement shall be in writing and shall be deemed to have been properly given if transmitted by hand-delivery, by registered or certified mail with postage prepaid return receipt requested, or by a private postal service, addressed to the parties (or their successors) at the addresses listed on the signature page of this Agreement or such other address as the party may have designated by proper notice.
- 8. E-Verify Affidavit. In accordance with Section 448.095, Florida Statutes, the Town requires all contractors doing business with the Town to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The Town will not enter into a contract unless each party to the contract registers with and uses the E-Verify system. The contracting entity must provide of its proof of enrollment in E-Verify. For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify. By entering into this Agreement, the Contractor acknowledges that it has read Section 448.095, Florida Statutes; will comply with the E-Verify requirements imposed by Section 448.095, Florida Statutes, including but not limited to obtaining E-Verify affidavits from subcontractors; and has executed the required affidavit attached hereto and incorporated herein.

[Remainder of page intentionally left blank. Signature pages follow.]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year as first stated above.

TOWN OF SURFSIDE

MOTOROLA SOLUTIONS, INC.

By:	By:
Andrew Hyatt Town Manager	Name:
Attest:	Title:
By: Sandra McCready, MMC Town Clerk Approved as to form and legal sufficiency:	Entity:
By: Weiss Serota Helfman Cole & Bierman, P.L. Town Attorney	
Addresses for Notice: Town of Surfside Attn: Town Manager 9293 Harding Avenue	Addresses for Notice:
Surfside, FL 33154 305-861-4863 (telephone) ahyatt@townofsurfsidefl.gov (email)	(telephone)
With a copy to: Weiss Serota Helfman Cole & Bierman, P.L. Attn: Lillian M. Arango, Esq. Town of Surfside Town Attorney	With a copy to:
2525 Ponce de Leon Boulevard, Suite 700 Coral Gables, FL 33134 larango@wsh-law.com (email)	(telephone)

EXHIBIT "A"

Miami-Dade County Contract No. D-10253

A copy of the County Contract No. D-10253 is on file with the Town Clerk of Surfside.

EXHIBIT "B"

MOTOROLA SOLUTIONS, INC. QUOTE

E-VERIFY AFFIDAVIT

In accordance with Section 448.095, Florida Statutes, the Town of Surfside requires all contractors doing business with the Town to register with and use the E-Verify system to verify the work authorization status of all newly hired employees. The Town will not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

The contracting entity must provide of its proof of enrollment in E-Verify. For instructions on how to provide proof of the contracting entity's participation/enrollment in E-Verify, please visit: https://www.e-verify.gov/faq/how-do-i-provide-proof-of-my-participationenrollment-in-e-verify

By signing below, the contracting entity acknowledges that it has read Section 448.095, Florida Statutes and will comply with the E-Verify requirements imposed by it, including but not limited to obtaining E-Verify affidavits from subcontractors.

□ Check here to confirm proof of enrollm Affidavit.	ent in E-Verify has been attached to this
In the presence of:	Signed, sealed and delivered by:
Witness #1 Print Name:	Print Name: Title: Entity Name:
State of Florida County of	<u>EDGMENT</u>
The foregoing instrument was acknowledged or \square online notarization, this day of (name of person) as of authority) for (name of person) as executed).	, 20, by(type
Com Personally known to me; or Produced identification (Type of Identi Did take an oath	Notary Public (Print, Stamp, or Type as missioned) ification:

Motorola Public Safety Radios and Capital Improvement Project Agreement No. D-10253

THIS AGREEMENT for the provision of Equipment, Products, Services, Maintenance and Support Services ("Agreement") for Public Safety and Public Service Applications, and it is made and entered into by and between Motorola Solutions, Inc., a corporation organized and existing under the laws of the State of Delaware, having an office at 401 East Las Olas Boulevard, Suite 1600, Ft Lauderdale, FL 33301 (hereinafter referred to as "Motorola" or "Contractor"), and Miami-Dade County, a political subdivision of the State of Florida, having its principal office at 111 NW 1st Street, Miami, Florida 33128 (the "County") (collectively, the "Parties").

WITNESSETH:

WHEREAS, the County wishes to purchase Equipment, Products, Services, Maintenance and Support Services for Public Safety and Public Service Applications, that shall conform to the Scope of Services (Appendix A-1 and Appendix A-2), and the requirements of this Agreement, and

WHEREAS, Motorcia has agreed to provide the required Equipment, Products, Services, and Maintenance and Support Services for Public Safety and Public Service Applications as required by the County on the conditions set forth in this Agreement,

NOW, THEREFORE, in consideration of the mutual covenants and agreements herein contained, the Parties hereto agree as follows:

ARTICLE 1. DEFINITIONS

The following words and expressions used in this Agreement shall be construed as follows, except when it is clear from the context that another meaning is intended:

- a) The words "Article" or "Articles" to mean the terms and conditions defineated in this Agreement
- b) The word "Agreement" to mean collectively the (i) Articles, (ii) Scope of Services, (iii) Price Schedule, (iv) all other appendices and attachments hereto, (v) all addenda and exhibits, and (vi) all amendments issued hereto.
- c) The words "Contract Manager" to mean the Director, Internal Services Department, or the duly authorized representative designated to manage the Agreement.
- d) The word "Contractor" to mean Motorola and its permitted successors.
- e) The word "Days" to mean calendar days.
- f) The word "Deliverables" to mean all documentation and any items submitted by the Contractor to the Project Manager for review and approval pursuant to the terms of this Agreement.
- g) The words "product" and "equipment" mean the products and equipment provided by Motorola under this Agreement
- h) The words "Licensed Software" to mean the software provided by Contractor pursuant to this Agreement
- i) The words "Project Manager" to mean the County Mayor or the duly authorized representative designated to manage the Project.
- j) The words "Scope of Services" to mean the document appended hereto as Appendix A-1 and Appendix A-2, which details the Work to be performed by the Contractor.

- k) The words "Service" or "Services" to mean the provision of services in accordance with the Scope of Services.
- The word "Subcontractor" to mean any person, entity, firm, or corporation, other than the employees of the Contractor, who furnishes labor and/or materials, in connection with the Work, whether directly or indirectly, on behalf and/or under the direction of the Contractor and whether or not in privity of contract with the Contractor.
- m) The word "Work" to mean all matters and things required to be done by the Contractor in accordance with the provisions of this Agreement.

ARTICLE 2. ORDER OF PRECEDENCE

If there is a conflict between or among the provisions of this Agreement, Articles 1 through 56 will take precedence over any conflicting terms in other Appendices or Exhibits, except that conflicting terms in Exhibit A, B, C, or D take precedence over Articles 1 through 56 only with respect to the specific subject matter contained in each Exhibit, and not Articles 1 through 56 or any other Exhibit as it applies to any other subject matter.

ARTICLE 3. RULES OF INTERPRETATION

- a) References to a specified Article, section or schedule shall be construed as reference to that specified Article, or section of, or schedule to this Agreement unless otherwise indicated.
- b) Reference to any agreement or other instrument shall be deemed to include such agreement or other instrument as such agreement or other instrument may, from time to time, be modified, amended, supplemented, or restated in accordance with its terms.
- c) The terms "hereof", "herein", "hereinafter", "hereby", "herewith", "herebo", and "hereunder" shall be deemed to refer to this Agreement.
- d) The terms "directed", "required", "permitted", "ordered", "designated", "selected", "prescribed" or words of like import to mean respectively, the direction, requirement, permission, order, designation, selection or prescription of the Project Manager.
- e) The terms "approved", acceptable", "satisfactory", "equal", "necessary", or words of like import to mean respectively, approved by, or acceptable or satisfactory to, equal or necessary in the opinion of the Project Manager.
- f) The fifes, headings, captions, and arrangements used in these Terms and Conditions are for convenience only and shall not be deemed to limit, amplify, or modify the terms of this Agreement, nor affect the meaning thereof.

ARTICLE 4. NATURE OF THE AGREEMENT

- a) This Agreement incorporates and includes all prior negotiations, correspondence, conversations, agreements, and understandings applicable to the matters contained in this Agreement. The Parties agree that there are no commitments, agreements, or understandings concerning the subject matter of this Agreement that are not contained in this Agreement, and that this Agreement contains the entire agreement between the Parties as to all matters contained herein. Accordingly, it is agreed that no deviation from the terms hereof shall be predicated upon any prior representations or agreements, whether oral or written. It is further agreed that any oral representations or modifications concerning this Agreement shall be of no force or effect, and that this Agreement may be modified, aftered, or amended only by a written amendment duly executed by the Parties hereto or their authorized representatives.
- b) The Contractor shall provide the services set forth in the Scope of Services and render full and prompt cooperation with the County in all aspects of the Work performed hereunder.

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- c) The Contractor acknowledges that this Agreement requires the performance of all things necessary for or incidental to the effective and complete performance of all Work under this Agreement. All things not expressly mentioned in this Agreement but reasonably necessary to carrying out its intent are required by this Agreement, and the Contractor shall perform the same as though they were specifically mentioned, described, and delineated.
- d) The Contractor shall furnish all labor, materials, tools, supplies, and other items required to perform the Work necessary for the completion of this Agreement. All Work shall be accomplished at the direction of the Project Manager and in accordance with this Agreement.
- e) The Contractor acknowledges that the County shall make all policy decisions regarding the Scope of Services. The Contractor agrees to provide input on policy issues in the form of recommendations. The Contractor shall implement all reasonable changes in providing Services hereunder as a result of a policy change implemented by the County. The Contractor agrees to act in an expeditious and isscally sound manner in providing the County with input regarding the time and cost to implement said changes and in executing the activities required to implement said changes.

ARTICLES. CONTRACT TERM

The Agreement shall become effective on the date of the Parties' execution, whichever is later, and shall continue for tive (5) years. The County, at its sole discretion, may renew this Agreement for three, five-year options to renew. The County may extend this Agreement for up to an additional one hundred-eighty (180) calendar days beyond the current Agreement period and will notify the Contractor in writing of the extension. This Agreement may be extended beyond the initial one hundred-eighty (180) calendar day extension period by mutual agreement between the County and the Contractor, upon approval by the Board of County Commissioners (the "Board").

ARTICLE 6. CHANGE ORDER PROVISION

- a) The County may, at any time, by written notice or order designated or indicated to be a Change Order or Change Notice, make any change in the Work, but only within the general scope of the Contract, including but not limited to changes (a) in the Contract specifications (b) in the method or manner of performance of the Work, (c) in the sites or (d) directing acceleration in the performance of the Work.
- b) If the County agrees that any change under this Section causes an increase or decrease in the Contractor's price of, or the time required for the performance of any part of the Work under this Contract, a Contract change will be made and the Contract modified by a written Change Order in accordance with this Section.
- c) If the Contractor intends to assert a claim for a Contract change under this Section, the Contractor shall issue a Notice of Potential Claim as set forth below. The Notice of Potential Claim shall be in writing and set forth the reasons for which the Contractor believes additional compensation and/or time is due, the nature of the costs involved and the approximate amount of the potential claim. If the change involves time, the notice shall also contain an estimate of the time involved and an impacted schedule. The Notice of Potential Claim shall be given to the County within ten (10) Days of the event giving rise to the claim, and in all instances prior to the time that the Contractor has started performance of work giving rise to the potential claim for additional compensation. Failure to provide the requisite notice, or otherwise to comply with the requirements of this Section shall be grounds for the County's rejection of the claim.
- d) The County and the Contractor shall endeavor to negotiate a reasonable contract price/fime (if applicable) and line adjustment in a Change Order on terms appropriate to the changed Work. The Contractor will be required to submit a sufficiently detailed price and time (if applicable) proposal within thirty (30) Days after the event giving rise to the change supported with sufficient documentation that (1) County can determine that the proposal reflects all impacts (price and time) on the Contract from Work additions, deletions and modifications shown in the Change Notice being priced; and (2) the proposed prices and time impact assessment are set out in such a way that their reasonableness can be evaluated. To support any proposed time impact arising out of a contract change, the Contractor shall submit with his price proposal a proposed impact in the project schedule, all in sufficient detail to allow County to determine the reasonableness of the

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request. The execution of a Change Order by both parties will be deemed full accord and satisfaction of all claims of any nature arising from the issuance of the Change Notice negotiated, including any price impacts resulting from the Change Order.

- e) If the price and/or time quoted in the Change Proposal Request is acceptable, the County may recommend a Change Order for approval by the Board of County Commissioners. If the quoted price and/or time is unacceptable, or in the event that a quote is not provided by The Contractor in the manner set forth in subsection d) above the change proposal request will be rejected.
- f) Change Orders involving additional time and money require the express approval of the Board of County Commissioners unless the Board has by appropriate legislation delegated that authority. By exception, any change, which can be funded from the contingency allowance, if any, shall require only the express written authorization of the County Project Manager.
- g) The Contractor shall continue diligently to perform the Contract in accordance with the County's order, instruction, direction, interpretation or determination during negotiations with respect to the Contractor's entitlement to a Contract change hereunder or to the amount of any Contract price adjustment or time extension, and throughout the Contract notwithstanding any such disagreement. The Contractor and County may agree on certain aspects of a Contract change and take those aspects out of operation of time and materials provisions. In the event a mutually agreeable equitable adjustment cannot be made, the Contractor shall continue diligently to perform the Work, and provided that the Contractor has delivered all required notices, the Contractor will perform the work and is authorized to deliver to the County a Notice of Protest pursuant to subsection h) as defined below.
- h) As a condition for making any claims for work done under protest, as authorized in this article, the Contractor shall deliver to the County a Notice of Protest. The Notice of Protest shall be delivered to the County in advance of the work done under protest, shall define with reasonable specificity the work being done under protest, shall provide an estimate of the anticipated damages to be claimed by the Contractor relating to such work, and the impact to the project schedule resulting from such work done under protest. Failure to provide the required notice shall be deemed a waiver of the claim.
- i) In no event shall the Contractor claim or be entitled to any damages for delay of any kind, whether occasioned by an act or omission to act, or by undisclosed, unforeseen, latent, or misrepresented materials or other physical conditions discovered or uncovered by the Contractor during the course of its performance; or by any other reason whatsoever.

ARTICLE7. ASSIGNMENT TO COUNTY SHERIFF

Notwithstanding anything to the contrary in this Agreement, including any work orders, amendments or addendums thereto, the Contractor agrees and acknowledges that the County may assign, transfer, convey, divide or otherwise dispose of this Agreement or a portion thereof, including the County's rights, title, or interest in or to the same, or any part thereof, to an elected County Sheriff upon the creation of such office in Miami-Dade County without any further consent from the Contractor. Upon the assignment, transfer or conveyance of the Agreement, or a portion thereof, to the elected County Sheriff and the acceptance of such by the County Sheriff, the County shall be relieved of all obligations under this Contract, or such portions of the Agreement assumed by the elected County Sheriff.

Should the County assign, transfer or convey only a portion of this Agreement to the County Sherriff, the Agreement shall be divided into two separate Agreements and the Sheriff shall assume all pro-rata rights, benefits and obligations of the portion of the Agreement assigned, transferred or conveyed to the County Sheriff as if such portion was a separate agreement entered into between the Contractor and the County Sheriff. The County Sheriff shall exercise all termination, extension or other contractual rights and shall be responsible for all obligations for such portion of the Agreement as of the date of the acceptance of such assignment, transfer or conveyance.

The County shall provide notice of such action to the Contractor within thirty (30) days of any such assignment, transfer or

conveyance.

ARTICLE 8. ELIGIBLE PURCHASERS

County and all of its agencies, and any city or governmental district, body or agency located within Miami-Dade County, Florida, may purchase additional equipment, products, and services from this Agreement Eligible Purchasers have the same rights and responsibilities as County under this Agreement with respect to their purchases from this Agreement.

ARTICLE9. NOTICE REQUIREMENTS

All notices required or permitted under this Agreement shall be in writing and shall be deemed sufficiently served if delivered by: (i) Registered or Certified Mail, with return receipt requested; (ii) personally by a by courier service; (iii) Federal Express Corporation or other nationally recognized carrier to be delivered overnight, or (iv) via facsimile or e-mail (if provided below) with delivery of hard copy pursuant to (i), (ii), or (iii) in this paragraph. The addresses for such notice are as follows:

(1) To the County

a) to the Miami-Dade Fire Rescue Department Project Manager:

Attention: Chief Gregory Rubin Phone: 786-331-5104

E-mail: Gregory.Rubin@miamidade.gov

and

b) to the Miami-Dade Police Department Project Manager:

Attention: Lieutenant Ronald P. Sliman

Phone: 305-669-7700 Email: rpsliman@mdpd.com

and

c) to the Contract Manager:

Miami-Dade County Internal Services Department, Strategic Procurement Division Attention: Chief Procurement Officer

111 NW 1st Street, Suite 1300 Miami, FL 33128-1974 Phone: (305) 375-4900

E-mail: Namita.Uppal@miamidade.gov

(2) To the Contractor

Attention: Danny Sanchez Phone: (954) 260-2961

E-mail: Danny.Sanchez@motorolasolutions.com

Either party may at any time designate a different address and/or contact person by giving notice as provided above to the other party. Such notices shall be deemed given upon receipt by the addressee.

ARTICLE 10. PAYMENT FOR SERVICES/AMOUNT OBLIGATED

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The Contractor warrants that it has reviewed the County's requirements and has asked such questions and conducted such other inquiries as the Contractor deemed necessary in order to determine the price the Contractor will charge to provide the Work to be performed under this Agreement. The compensation for all Work performed under this Agreement, including all costs associated with such Work and Services, shall be paid in accordance with Appendix B. The County shall have no obligation to pay the Contractor any additional sum in excess of this amount, except for a change and/or modification to the Agreement, which is approved and executed in writing by the County and the Contractor.

All Services undertaken by the Contractor before County's approval of this Agreement shall be at the Contractor's risk and expense.

ARTICLE 11. PRICING

Prices shall remain firm and fixed for the initial term of the Agreement per Section 8 of Appendix A-1, and Section 10 of Appendix A-2, including any extension periods, pursuant to Appendix B; however, the Contractor may offer incentive discounts to the County at any time during the Agreement term, including any extension thereof.

ARTICLE 12. METHOD AND TIMES OF PAYMENT

The Contractor may bill the County periodically, but not more than once per month, upon invoices certified by the Contractor pursuant to Appendix B. The Payment Schedule is set forth in Appendix A. All invoices shall be taken from the books of account kept by the Contractor, shall be supported by receipt bills or other documents reasonably required by the County. shall show the County's contract number, and shall have a unique invoice number assigned by the Contractor. It is the policy of Mlami-Dade County that payment for all purchases by County agencies and the Public Health Trust (the "Trust"), shall be made in a timely manner and that interest payments be made on late payments. All tirms, including Small Business Enterprises, providing goods and services to the County, shall receive payment to maintain sufficient cash flow. In accordance with Section 218.74 of the Florida Statutes, and Section 2-8.1.4 of the Code of Miami-Dade County (the "Code"), the time at which payment shall be due from the County or Trust shall be forty-five (45) calendar days from receipt of a proper invoice. Billings from prime contractors under services and goods contracts with the County or Trust, that are Small Business Enterprise contract set-aside, bid preference or contain a subcontractor goal, shall be promptly reviewed and payment made by the County or Trust on those amounts not under dispute within fourteen (14) calendar days of receipt of such billing by the County or the Trust pursuant to Sections 2-8.1.1.1.1 and 2-8.1.1.1.2 of the Code. All payments due from the County or Trust and not made within the time specified by this section shall bear interest from thirty (30) days after the due date at the rate of one percent (1%) per month on the unpaid balance. Further, proceedings to resolve disputes for payment of obligations, shall be concluded by final written decision of the County Mayor or his or her designee(s), not later than sixty (60) days after the date on which the proper invoice was received by the County or Trust

In accordance with Miami-Dade County Implementing Order No. 3-9, Accounts Receivable Adjustments, if money is owed by the Contractor to the County, whether under this Agreement or for any other purpose, the County reserves the right to retain such amount from payment due by County to the Contractor under this Agreement. Such retained amount shall be applied to the amount owed by the Contractor to the County. The Contractor shall have no further claim to such retained amounts which shall be deemed full accord and satisfaction of the amount due by the County to the Contractor for the applicable payment due herein.

Invoices and associated back-up documentation shall be submitted electronically or in hard copy format by the Contractor to the County as follows:

To MDFR

Miami-Dade County, Finance Department C/O Miami-Dade Fire Rescue Department Ath: Shared Services Payable Unit

To MDPD

Miami-Dade County, Finance Department C/O Miami-Dade Police Department Atn: Shared Services Payable Unit

111 NW 1st Street, 26th Floor Miami, FL 33128 Contract No. D-10253
111 NW 1st Street, 26th Floor
Miami, FL 33128

The County may at any time designate a different address and/or contact person by giving written notice to the other party.

ARTICLE 13. FREIGHT, TITLE, AND RISK OF LOSS

The Contractor will pre-pay and add all freight charges to the invoices. Title and risk of loss to the Equipment will pass to County upon shipment. Title to Software will not pass to County at any time. The Contractor will pack and ship all Equipment in accordance with good commercial practices.

The address which is the ultimate destination where the Equipment will be delivered to County will be set forth in the applicable purchase orders. The Equipment will be shipped to the County at the address set forth in the purchase orders within the County.

The County may change this information by giving written notice to Motorola.

ARTICLE 14. INDEMNIFICATION AND INSURANCE

The Contractor shall indemnify and hold harmless the County and its officers, employees, agents and instrumentalities who are users of the equipment, from any and all liability, losses or damages, including reasonable attorneys' fees and costs of defense, which the County or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings arising out of, relating to or resulting from the negligent performance of this Agreement by the Contractor or its employees, agents, servants, partners principals or Subcontractors. The Contractor shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions on behalf of the County, where applicable, including appellate proceedings. The Contractor expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the Contractor shall in no way timit the responsibility to indemnify, keep and save harmless and defend the County or its officers, employees, agents, and instrumentalities as herein provided.

The Contractor shall furnish to the Internal Services Department, Strategic Procurement Division, Certificate(s) of Insurance which indicate that insurance coverage has been obtained which meets the requirements as outlined below:

- A. Worker's Compensation Insurance for all employees of the Contractor as required by Florida Statute 440.
- B. Commercial General Liability Insurance in an amount of \$1,000,000 per occurrence, and \$2,000,000 in the aggregate, not to exclude Products and Completed Operations. Miami-Dade County must be shown as an additional insured with respect to this coverage.
- C. Automobile Liability Insurance covering all owned, non-owned and hired vehicles, in an amount of \$1,000,000 combined single limit each accident each accident for bodily injury and property damage.
- D. Professional Liability Insurance in an amount of \$1,000,000 per claim.

All insurance policies required above shall be issued by companies authorized to do business under the laws of the State of Florida, with the following qualifications:

The company must be rated no less than "A-" as to management, and no less than "Class VII" as to financial strength, by Best's Insurance Guide, published by A.M. Best Company, Oldwick, New Jersey, or its equivalent, subject to the approval of the County Risk Management Division.

The company must hold a valid Florida Certificate of Authority as shown in the latest "List of All Insurance Companies Authorized or Approved to Do Business in Florida" issued by the State of Florida Department of Financial Services.

NOTE: CERTIFICATE HOLDER MUST READ:
MIAMI-DADE COUNTY
111 NW 1st STREET
SUITE 2340
MIAMI, FL 33128

Compliance with the foregoing requirements shall not relieve the Contractor of this liability and obligation under this section or under any other section in this Agreement

Award of this Agreement is confingent upon the receipt of the insurance documents, as required, within ten (10) business days. If the certificate of insurance is received within the specified fimeframe but not in the manner prescribed in this Agreement, the Contractor shall have an additional five business days to submit a corrected certificate to the County. If the Contractor fails to submit the required insurance documents in the manner prescribed in this Agreement within them (15) business days, the Contractor shall be in default of the contractual terms and conditions and award of the Agreement may be rescinded, unless such timeframe for submission has been extended by the County.

The Contractor shall assure that the certificate of insurance required in conjunction with this section remain in full force for the term of the Agreement, including any renewal or extension periods that may be exercised by the County. If the certificate of insurance is scheduled to expire during the term of the Agreement, the Contractor shall submit new or renewed certificate of insurance to the County before such expiration. If expired certificate of insurance is/are not replaced or renewed to cover the Agreement period, the County may suspend the Agreement until the new or renewed certificate is/are received by the County in the manner prescribed herein. If such suspension exceeds thirty (30) calendar days, the County may, at its sole discretion, terminate the Agreement for cause and the Contractor shall be responsible for all direct and indirect costs associated with such termination.

ARTICLE 15. MANNER OF PERFORMANCE

- a) The Contractor shall provide the Work described herein in a competent and professional manner to the County in accordance with the terms and conditions of this Agreement. The County shall be entitled to a performance of all Work described herein and to full and prompt cooperation by the Contractor in all aspects of the Work. At the request of the County, the Contractor shall promptly remove from the Project any Contractor's employee, Subcontractor, or any other person performing Work hereunder. The Contractor agrees that such removal of any of its employees does not require the termination or demotion of any employee by the Contractor.
- b) The Contractor agrees to defend, hold harmless and indemnify the County and shall be liable and responsible for all claims, suits, actions, damages, and reasonable costs (including attorneys' fees and court costs) made against the County, occurring on account of, arising from or in connection with the removal and replacement of any Contractor's personnel performing Services hereunder at the behest of the County. Removal and replacement of any Contractor's personnel as used in this Article shall not require the termination and/or demotion of such Contractor's personnel.
- c) The Contractor always agrees that it will employ, maintain, and assign to the performance of the Work a sufficient number of competent and qualified professionals and other personnel to meet the requirements to which reference is hereinafter made. The Contractor agrees to adjust its personnel staffing levels or to replace any its personnel if so, directed upon reasonable request from the County, should the County make a determination, in its sole discretion, that said personnel staffing is inappropriate or that any individual is not performing in a manner consistent with the requirements for such a position.

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- d) The Contractor warrants and represents that its personnel have the proper skill, training, background, knowledge, experience, rights, authorizations, integrity, character, and licenses as necessary to perform the Work described herein, in a competent and professional manner.
- e) The Contractor shall always cooperate with the County and coordinate its respective work efforts to maintain the progress most effectively and efficiently in performing the Work.
- f) The Contractor shall comply with all provisions of all federal, state, and local laws, statutes, ordinances, and regulations that are applicable to the performance of this Agreement

ARTICLE 16. EMPLOYEES OF THE CONTRACTOR

All employees of the Contractor shall be, at all times, employees of the Contractor under its sole direction and not employees or agents of the County. The Contractor shall supply competent employees. Miami-Dade County may require the Contractor to remove an employee it deems careless, incompetent, insubordinate or otherwise objectionable and whose continued employment on County property is not in the best interest of the County. Each employee shall have and wear proper identification.

ARTICLE 17. INDEPENDENT CONTRACTOR RELATIONSHIP

The Contractor is, and shall be, in the performance of all Work and activities under this Agreement, an independent contractor, and not an employee, agent or servant of the County. All persons engaged in any of the Work performed or Services provided pursuant to this Agreement shall always, and in all places, be subject to the Contractor's sole direction, supervision, and control. The Contractor shall exercise control over the means and manner in which it and its employees perform the Work, and in all respects the Contractor's relationship and the relationship of its employees to the County shall be that of an independent contractor and not as employees and agents of the County.

The Contractor does not have the power or authority to bind the County in any promise, agreement, or representation other than specifically provided for in this Agreement.

ARTICLE 18. DISPUTE RESOLUTION PROCEDURE

- a) The Contractor hereby acknowledges that the Project Manager will determine in the first instance all questions of any nature whatsoever arising out of, under, or in connection with, or in any way related to or on account of, this Agreement including without limitations: questions as to the value, acceptability and fitness of the Services; questions as to either party's fulfillment of its obligations under the Agreement, negligence, fraud or misrepresentation; questions as to the interpretation of the Scope of Services; and claims for damages, compensation and losses.
- b) The Contractor shall be bound by all determinations or orders and shall promptly comply with every reasonable request of the Project Manager, including the withdrawal or modification of any previous order, subject to subsection c) through e) below. Where orders are given orally, they will be issued in writing by the Project Manager as soon thereafter as is practicable.
- c) The Contractor must, in the final instance, seek to resolve every difference concerning the Agreement with the Project Manager. In the event that the Contractor and the Project Manager are unable to resolve their difference, the Contractor may initiate a dispute in accordance with the procedures set forth in this Article. Exhaustion of these procedures shall be a condition precedent to any lawsuit permitted hereunder.
- d) In the event of such dispute, the Parties authorize the County Mayor or designee, who may not be the Project Manager or anyone associated with this Project, acting personally, to decide all questions arising out of, under, or in connection with, or in any way related to or on account of the Agreement (including but not limited to claims in the nature of breach of contract, fraud or misrepresentation arising either before or subsequent to execution hereof) and the decision of each with respect to matters within the County Mayor's purview as set forth above shall be conclusive,

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final and binding on the Parties, subject to judicial appeal. Any such dispute shall be brought, if at all, before the County Mayor within ten (10) days of the occurrence, event or act out of which the dispute arises.

- The County Mayor may base this decision on such assistance as may be desirable, including advice of experts, but in any event shall base the decision on an independent and objective determination of whether Contractor's performance or any Deliverable meets the requirements of this Agreement and any specifications with respect thereto set forth herein. The effect of any decision shall not be impaired or waived by any negotiations or settlements or offers made in connection with the dispute, whether or not the County Mayor participated therein, or by any prior decision of others, which prior decision shall be deemed subject to review, or by any termination or cancellation of the Agreement. All such disputes shall be submitted in writing by the Contractor to the County Mayor for a decision, together with all evidence and other perfinent information regarding such questions, in order that a fair and impartial decision may be made. Whenever the County Mayor is entitled to exercise discretion or judgment or to make a determination or form an opinion pursuant to the provisions of this Article, such action shall be fair and impartial when exercised or taken. The County Mayor, as appropriate, shall render a decision in writing and deliver a copy of the same to the Contractor. Contractor reserves the right to pursue any remedies available under law after exhausting the provisions of this Article.
- f) This Article will survive the termination or expiration of this Agreement

ARTICLE 19. MUTUAL OBLIGATIONS

- a) This Agreement, including attachments and appendices to the Agreement, shall constitute the entire Agreement between the Parties with respect hereto and supersedes all previous communications and representations or agreements, whether written or oral, with respect to the subject matter hereto unless acknowledged in writing by the duly authorized representatives of the Parties.
- b) Nothing in this Agreement shall be construed for the benefit, intended or otherwise, of any third party that is not a parent or subsidiary of a party or otherwise related (by virtue of ownership control) to a party.
- c) In those situations where this Agreement imposes an indemnity obligation on the Contractor, the County may, at its expense, elect to participate in the defense if the County should so choose. Furthermore, the County may at its own expense defend or settle any such claims if the Contractor fails to diligently defend such claims, and thereafter seek indemnity for such defense or settlement costs from the Contractor.

ARTICLE 20. QUALITY ASSURANCE/QUALITY ASSURANCE RECORD KEEPING

The Contractor shall maintain, and shall require that its Subcontractors maintain, complete and accurate records to substantiate compliance with the requirements set forth in the Agreement. The Contractor and its Subcontractors shall retain such records, and all other documents relevant to the Work furnished under this Agreement for a period of three (3) years from the expiration date of this Agreement and any extension thereof.

ARTICLE21. AUDITS

The County, or its duly authorized representatives and governmental agencies, shall until the expiration of three (3) years after the expiration of this Agreement and any extension thereof, have access to and the right to examine and reproduce any of the Contractor's books, documents, papers and records and of its Subcontractors and suppliers which apply to all matters of the County. Such records shall subsequently conform to Generally Accepted Accounting Principles requirements, as applicable, and shall only address those transactions related to this Agreement.

Pursuant to Section 2-481 of the Code, the Contractor will grant access to the Commission Auditor to all financial and performance related records, property, and equipment purchased in whole or in part with government funds within five (5) business days of the Commission Auditor's request. The Contractor agrees to maintain an accounting system that provides

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accounting records that are supported with adequate documentation, and adequate procedures for determining the allowability and allocability of costs.

ARTICLE 22. SUBSTITUTION OF PERSONNEL

In the event the Contractor needs to substitute personnel for the key personnel identified by the Contractor's Proposal, the Contractor must notify the County in writing and request written approval for the substitution at least ten (10) business days prior to effecting such substitution. However, such substitution shall not become effective until the County has approved said substitution.

ARTICLE 23. CONSENT OF THE COUNTY REQUIRED FOR ASSIGNMENT

The Contractor shall not assign, transfer, convey or otherwise dispose of this Agreement, including its rights, file, or interest in or to the same or any part thereof (except software) without the prior written consent of the County.

ARTICLE 24. SUBCONTRACTUAL RELATIONS

- a) If the Contractor causes any part of this Agreement to be performed by a Subcontractor, the provisions of this Agreement will apply to such Subcontractor and its officers, agents and employees in all respects as if it and they were employees of the Contractor, and the Contractor will not be in any manner thereby discharged from its obligations and liabilities hereunder, but will be liable hereunder for all acts, omissions, and negligence of the Subcontractor, its officers, agents, and employees, as if they were employees of the Contractor. The services performed by the Subcontractor will be subject to the provisions hereof as if performed directly by the Contractor.
- b) The Contractor, before making any subcontract for any portion of the Work, will state in writing to the County the name of the proposed Subcontractor, the portion of the Work which the Subcontractor is to do, the place of business of such Subcontractor, and such other information as the County may require. The County will have the right to require the Contractor not to award any subcontract to a person, firm or corporation disapproved by the County.
- c) Before entering into any subcontract hereunder, the Contractor will inform the Subcontractor fully and completely of all provisions and requirements of this Agreement relating either directly or indirectly to the Work to be performed. Such Work performed by such Subcontractor will strictly comply with the requirements of this Agreement.
- d) In order to qualify as a Subcontractor satisfactory to the County, in addition to the other requirements herein provided, the Subcontractor must be prepared to prove to the satisfaction of the County that it has the necessary facilities, skill and experience, and ample financial resources to perform the Work in a satisfactory manner. To be considered skilled and experienced, the Subcontractor must show to the satisfaction of the County that it has satisfactorily performed Work of the same general type which is required to be performed under this Agreement
- e) The County shall have the right to withdraw its consent to a Subcontractor if it appears to the County that the Subcontractor will delay, prevent, or otherwise impair the performance of the Contractor's obligations under this Agreement. All Subcontractors are required to protect the confidentiality of the County's and County's proprietary and confidential information.

ARTICLE 25. ASSUMPTION, PARAMETERS, PROJECTIONS, ESTIMATES AND EXPLANATIONS

The Contractor understands and agrees that any assumptions, parameters, projections, estimates, and explanations presented by the County were provided to the Contractor for evaluation purposes only. However, since these assumptions, parameters, projections, estimates, and explanations represent predictions of future events the County makes no representations or guarantees; and the County shall not be responsible for the accuracy of the assumptions presented; and the County shall not be responsible for conclusions to be drawn therefrom; and any assumptions, parameters, projections,

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estimates and explanations shall not form the basis of any claim by the Contractor; however, such information may be used as a defense to claims made by the County or any third parties against the Contractor.

ARTICLE 26. SEVERABILITY

If this Agreement contains any provision found to be unlawful, the same shall be deemed to be of no effect and shall be deemed stricken from this Agreement without affecting the binding force of this Agreement as it shall remain after omitting such provision.

ARTICLE 27. TERMINATION AND SUSPENSION OF WORK

- a) This Agreement may be terminated for cause by the County for reasons including, but not limited to, (i) the Contractor commits an Event of Default (as defined below in Article 28) and fails to cure said Event of Default (as defineated below in Article 29), or (ii) Contractor attempts to meet its contractual obligations with the County through fraud, misrepresentation, or material misstatement
- b) This Agreement may also be terminated for convenience by the County. Termination for convenience is effective on the termination date stated in the written notice provided by the County.
- c) If County terminates this Agreement for cause under Article 27(a) above, the County may, in its sole discretion, also terminate or cancel any other contract(s) that such individual or corporation or other entity has with the County and that such individual, corporation or other entity shall pay all direct or indirect costs associated with such termination or cancellation, including reasonable attorneys' fees.
- d) The foregoing notwithstanding, if the Contractor attempts to meet its contractual obligations with the County through fraud, misrepresentation, or material misstatement, the Contractor may be debarred from County contracting in accordance with the County debarment procedures. The Contractor may be subject to debarment for failure to perform and all other reasons set forth in Section 10-38 of the Code.
- e) In the event that the County exercises its right to terminate this Agreement, the Contractor shall, upon receipt of such notice, unless otherwise directed by the County:
 - i. stop Work on the date specified in the notice (the "Effective Termination Date"):
 - ii. take such action as may be necessary for the protection and preservation of the County's materials and property;
 - iii. cancel orders:
 - iv. assign to the County and deliver to any location designated by the County any non-cancelable orders for Deliverables that are not capable of use except in the performance of this Agreement and has been specifically developed for the sole purpose of this Agreement and not incorporated in the Services;
 - v. take no action which will increase the amounts payable by the County under this Agreement, and
 - vi. reimburse the County a proration of the fees paid annually based on the remaining months of the term per the compensation listed in Section 8 of Appendix A-1 and Section 10 of Appendix A-2.
- In the event that the County exercises its right to terminate this Agreement, the Contractor will be compensated as stated in the payment Articles herein for the:
 - i. portion of the equipment, materials, products, Services completed in accordance with the Agreement up to the

Effective Termination Date; and

- ii. non-cancelable Deliverables that are not capable of use except in the performance of this Agreement and has been specifically developed for the sole purpose of this Agreement, but not incorporated in the Services.
- g) All compensation pursuant to this Article is subject to audit.
- h) In the event the Contractor fails to cure an Event of Default timely, the County may terminate this Agreement, and the County or its designated representatives may immediately take possession of all applicable equipment, materials, products, documentation, reports, and data.

ARTICLE 28. EVENT OF DEFAULT

- a) An Event of Default is a material breach of this Agreement by the Contractor, and includes but is not limited to the following:
 - i. the Contractor has not delivered Deliverables and/or Services on a timely basis:
 - ii. the Contractor has refused or failed to supply enough property skilled staff personnel;
 - iii. the Contractor has failed to make payment to Subcontractors or suppliers for any Services;
 - iv. the Contractor has become insolvent (other than as interdicted by the bankruptcy laws), or has assigned the proceeds received for the benefit of the Contractor's creditors, or the Contractor has taken advantage of any insolvency statute or debtor/creditor law or if the Contractor's affairs have been put in the hands of a receiver;
 - v. the Contractor has failed to obtain the approval of the County where required by this Agreement,
 - vi. the Contractor has failed to provide "adequate assurances" as required under subsection b below;
 - vil. the Contractor has failed in the representation of any warranties stated herein; or
 - viii. the Contractor fails to comply with Article 46.
- When, in the opinion of the County, reasonable grounds for uncertainty exist with respect to the Contractor's ability to perform the Work or any portion thereof, the County may request that the Contractor, within a mutually agreed upon timeframe set forth in the County's request, provide adequate assurances to the County, in writing, of the Contractor's ability to perform in accordance with the terms of this Agreement. Until the County receives such assurances, the County may request an adjustment to the compensation received by the Contractor for portions of the Work which the Contractor has not performed. In the event that the Contractor fails to provide to the County the requested assurances within the prescribed timeframe, the County may:
 - i. treat such failure as a repudiation and/or material breach of this Agreement, and
 - ii. resort to any remedy for breach provided herein or at law, including but not limited to, taking over the performance of the Work or any part thereof either by itself or through others.

ARTICLE 29. NOTICE OF DEFAULT - OPPORTUNITY TO CURE

If an Event of Default occurs in the determination of the County, the County shall notify the Contractor (the "Default Notice"), specifying the basis for such default, and advising the Contractor that such default must be cured immediately, or this Agreement with the County may be terminated. Notwithstanding, the County may, in its sole discretion, allow the Contractor to rectify the default to the Agreement within a thirty (30) day period. The County may grant an additional period of such

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duration as the County shall deem appropriate without waiver of any of the County's rights hereunder, so long as the Contractor has commenced curing such default and is effectuating a cure with diligence and continuity during such thirty (30) day period or any other period which the County prescribes. The Default Notice shall specify the date the Contractor shall discontinue the Work upon the Effective Termination Date.

ARTICLE 30. REMEDIES IN THE EVENT OF DEFAULT

If an Event of Default occurs, whether or not the County elects to terminate this Agreement as a result thereof, the Contractor shall be liable for all damages resulting from the default, irrespective of whether the County elects to terminate the Agreement, including but not limited to:

- a) the difference between the cost associated with procuring Services hereunder and the amount actually expended by the County for re-procurement of Services, including procurement and administrative costs; and
- b) such other direct damages.

The Contractor shall also remain liable for any liabilities and claims related to the Contractor's default. The County may also bring any suit or proceeding for specific performance or for an injunction.

ARTICLE31. ACCEPTANCE

Acceptance of the Products will occur upon delivery to County unless Appendix A-1 and/or Appendix A-2 provides for acceptance verification or testing, in which case acceptance of the Products will occur upon successful completion of the acceptance verification or testing. Notwithstanding the preceding sentence, County's use of the Products for their operational purposes will constitute acceptance.

ARTICLE32. TOWERACCEPTANCE

- a) Project Kickoff. Contractual testing and inspections will be defined and agreed to with the project team and the County prior to project kick off, and the Contractor will be responsible for conducting, coordinating and paying for all jurisdictional testing and inspections.
- b) Completion Criteria. Site development will be completed per Issued for Construction (IFC) drawings, project requirements, contractual obligations, including any County and Contractor approved changes. This shall be confirmed by the subcontractor and reviewed with the Contractor's construction manager and project manager before inspections occur. All jurisdictional and contractual required testing and inspections will occur. The Contractor's site development checklist will be completed and signed off by the Contractor prior to the County's inspection. The site turn-over package will be completed and turned over to the Contractor, as defined and agreed to with the County. All punch list and deficiencies shall be completed prior to County and Contractor inspections.
- c) Tower Acceptance. Tower Acceptance will occur upon completion of the Installation. Upon Tower Acceptance, the Parties will memorialize this event by promptly executing a Tower Acceptance Certificate.

ARTICLE 33. REPRESENTATIONS AND WARRANTIES

- a) EQUIPMENT WARRANTY. During the Warranty Period, the Contractor warrants that the Equipment under normal use and service will be free from material defects in materials and workmanship.
- b) SOFTWARE WARRANTY. Except as described in the SwSP and unless otherwise stated in the Software License Agreement, during the Warranty Period, the Contractor warrants the Software in accordance with the warranty terms of the Software License Agreement and the provisions of this Section that are applicable to the Software. Nothing

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in this Warranty provision is intended to conflict or modify the Software Support Policy. In the event of an ambiguity or conflict between the Software Warranty and Software Support Policy, the Software Support Policy governs. TO THE EXTENT, IF ANY, THAT THERE IS A SEPARATE LICENSE AGREEMENT PACKAGED WITH, OR PROVIDED ELECTRONICALLY WITH, A PARTICULAR PRODUCT THAT BECOMES EFFECTIVE ON AN ACT OF ACCEPTANCE BY THE END USER, THEN THAT AGREEMENT SUPERSEDES THE SOFTWARE LICENSE AGREEMENT AS TO THE END USER OF EACH SUCH PRODUCT.

- c) EXCLUSIONS TO EQUIPMENT AND SOFTWARE WARRANTIES. These warranties do not apply to: (i) defects or damage resulting from: use of the Equipment or Software in other than its normal, customary, and authorized manner; accident, liquids, neglect, or acts of God; testing, maintenance, disassembly, repair, installation, alteration, modification, or adjustment not provided or authorized in writing by Motorola; County's failure to comply with all applicable industry and OSHA standards; (ii) breakage of or damage to antennas unless caused directly by defects in material or workmanship; (iii) Equipment that has had the serial number removed or made illegible; (iv) batteries (because they carry their own separate limited warranty) or consumables; (v) freight costs to ship Equipment to the repair depot, (vi) scratches or other cosmetic damage to Equipment surfaces that does not affect the operation of the Equipment, and (vii) normal or customary wear and tear.
- d) SERVICE WARRANTY. During the Warranty Period, the Contractor warrants that the Services will be provided in a good and workmanlike manner and will conform in all material respects to the applicable Statement of Work. Services will be free of defects in materials and workmanship for a period of ninety (90) days from the date the performance of the Services are completed. County acknowledges that the Deliverables may contain recommendations, suggestions or advice from the Contractor to County (collectively, "recommendations"). The Contractor makes no warrantes concerning those recommendations, and County alone accepts responsibility for choosing whether and how to implement the recommendations and the results to be realized from implementing them.
- e) WARRANTY CLAIMS. To assert a warranty claim, County must notify the Contractor in writing of the claim before the expiration of the Warranty Period. Upon receipt of this notice, the Contractor will investigate the warranty claim. If this investigation confirms a valid Equipment or Software warranty claim, the Contractor will (at its option and at no additional charge to County) repair the defective Equipment or Motorola Software, replace it with the same or equivalent product, or refund the price of the defective Equipment or Motorola Software. These actions will be the full extent of the Contractor's liability for the warranty claim. In the event of a valid Services warranty claim, County's sole remedy is to require the Contractor to re-perform the non-conforming Service or to refund, on a pro-rata basis, the fees paid for the non-conforming Service. If this investigation indicates the warranty claim is not valid, then the Contractor may invoice County for responding to the claim on a time and materials basis using the Contractor's then current labor rates. Repaired or replaced product is warranted for the balance of the original applicable warranty period. All replaced products or parts will become the property of the Contractor.
- f) ORIGINAL END USER IS COVERED. These express limited warranties are extended by the Contractor to the original user purchasing the Products or Services for commercial, industrial, or governmental use only, and are not assignable or transferable.
- DISCLAIMER OF OTHER WARRANTIES. THESE WARRANTIES ARE THE COMPLETE WARRANTIES FOR THE EQUIPMENT AND MOTOROLA SOFTWARE PROVIDED UNDER THIS AGREEMENT AND ARE GIVEN IN LIEU OF ALL OTHER WARRANTIES. THE CONTRACTOR DISCLAIMS ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

ARTICLE 34. PATENT AND COPYRIGHT INDEMNIFICATION

a) The Contractor shall be liable and responsible for any and all claims made against the County for Contractor's infringement of patents, copyrights, service marks, trade secrets or any other third party proprietary rights, by the use

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or supplying of any Programs, documentation, Software, analyses, applications, methods, ways, processes, and the like, in the course of performance or completion of, or in any way connected with, the Work, or the County's continued use of the Deliverables furnished hereunder. Accordingly, the Contractor at its own expense, including the payment of reasonable attorney's fees, shall indemnify, and hold harmless the County and defend any action brought against the County with respect to any infringement claim, demand, and cause of action, debt, or liability.

- In the event any Deliverable or anything provided to the County hereunder, or portion thereof is held to constitute an infringement and its use is or may be enjoined, the Contractor shall have the obligation to, at the Contractor's option and expense (i) modify, or require that the applicable Subcontractor or supplier modify, the alleged infringing item(s) at its own expense, without impairing in any respect the functionality or performance of the item(s), or (ii) replace the Equipment/Software (or part thereof) with a functioning equivalent but not infringing one, or (iii) procure for the County, at the Contractor's expense, the rights provided under this Contract to use the item(s). If none of the foregoing remedies are reasonably available to the Contractor, the Contractor shall accept return of the system and reimburse the County for the depreciated purchase price. The price shall be depreciated on the basis of straight line depreciation over a period of 15 years.
- c) The Parties shall promptly inform the other of any litigation involving patent or copyright infringement, service mark, trademark, violation, or proprietary rights claims or is subject to any injunction which may prohibit Contractor from providing any Deliverables hereunder. The Contractor shall enter into agreements with all Subcontractors at the Contractor's own risk.

The County may reject any Deliverable that it believes to be the subject of any such litigation or injunction, or if, in the County's judgment, use thereof would delay the Work or be unlawful.

d) The Contractor shall be promptly notified in writing of any suit, action or proceeding in regard to any such claim, and shall be given a reasonable opportunity to defend, at its sole expense, any such suit, action or proceeding including settlement thereof, in which event, the Contractor shall pay all amounts due as damages finally awarded against the County or pay all balances of settlement thereof, as the case may be.

In no event will the Contractor's liability resulting from its indemnity obligation to County extend in any way to royalties payable on a per use basis or the County's revenues, or any royalty basis other than a reasonable royalty based upon revenue derived by Motorola from County from sales or license of the infringing Motorola Product

This Article 34 provides County's sole and exclusive remedies and the Contractor's entire liability in the event of an Infringement Claim. County has no right to recover and the Contractor has no obligation to provide any other or further remedies, whether under another provision of this Agreement or any other legal theory or principle, in connection with an Infringement Claim. In addition, the rights and remedies provided in this Article are subject to and limited by the restrictions set forth in Article 35.

ARTICLE35. LIMITATIONOF LIABILITY

This limitation of liability provision shall apply notwithstanding any contrary provision in this Agreement. Except for personal injury or death, or direct damage to real property or direct damage tangible personal property the Contractor's total liability, whether for breach of Agreement, warranty, negligence, strict liability in tort, indemnification, or otherwise, will be limited to the direct damages recoverable under law, but not to exceed the price of the Equipment, Software, or services with respect to which losses or damages are claimed. ALTHOUGH THE PARTIES ACKNOWLEDGE THE POSSIBILITY OF SUCH LOSSES OR DAMAGES, THEY AGREE THAT THE CONTRACTOR WILL NOT BE LIABLE FOR ANY COMMERCIAL LOSS; INCONVENIENCE; LOSS OF USE, TIME, DATA, GOOD WILL, REVENUES, PROFITS OR SAVINGS; OR OTHER SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO OR ARISING FROM THIS AGREEMENT. This limitation of liability will survive the expiration or termination of this Agreement.

Notwithstanding the above, the Parties acknowledge that the Contractor shall be classified as a service provider as defined by the Next Generation 9-1-1 Advancement Act of 2012 ("NG911 Act") and therefore is entitled to the immunity protections granted under the NG911 Act

ARTICLE36. CONFIDENTIALITY

- a) All materials, data, transactions of all forms, financial information, documentation, inventions, designs and methods obtained from the County in connection with the Services performed under this Agreement, made or developed by the Contractor or its Subcontractors in the course of the performance of such Services, or the results of such Services, or for which the County holds the proprietary rights, constitute Confidential Information and may not, without the prior written consent of the County, be used by the Contractor or its employees, agents, Subcontractors or suppliers for any purpose other than for the benefit of the County, unless required by law. In addition to the foregoing, all County employee information and County financial information shall be considered Confidential Information and shall be subject to all the requirements stated herein. Neither the Contractor nor its employees, agents, Subcontractors, or suppliers may sell, transfer, publish, disclose, display, license or otherwise make available to others any part of such Confidential Information without the prior written consent of the County. Additionally, the Contractor expressly agrees to be bound by and to defend, indemnify and hold harmless the County, and their officers and employees from the Contractor's breach of any federal, state, or local law in regard to the privacy of individuals.
- b) The Contractor shall advise each of its employees, agents, Subcontractors, and suppliers who may be exposed to such Confidential Information of their obligation to keep such information confidential and shall promptly advise the County in writing if it learns of any unauthorized use or disclosure of the Confidential Information by any of its employees or agents, or Subcontractor's employees, present or former. In addition, the Contractor agrees to cooperate fully and provide any assistance necessary to ensure the confidentiality of the Confidential Information.
- c) In the event of a breach of this Article, damages may not be an adequate remedy and the County shall be entitled to injunctive relief to restrain any such breach or threatened breach. Unless otherwise requested by the County, upon the completion of the Services performed hereunder, the Contractor shall immediately turn over to the County all such Confidential Information existing in tangible form, and no copies thereof shall be retained by the Contractor or its employees, agents, Subcontractors, or suppliers without the prior written consent of the County. A certificate evidencing compliance with this provision and signed by an officer of the Contractor shall accompany such materials.

ARTICLE 37. PROPRIETARY INFORMATION

As a political subdivision of the State of Florida, Miami-Dade County is subject to the stipulations of the public records laws of the State of Florida (the "Public Records Law").

The Contractor acknowledges that all computer software in the County's possession may constitute or contain information or materials which the County has agreed to protect as proprietary information from disclosure or unauthorized use and may also constitute or contain information or materials which the County has developed at its own expense, the disclosure of which could harm the County's proprietary interest therein.

During the term of the Agreement, the Contractor will not use directly or indirectly for itself or for others, or publish or disclose to any third party, or remove from the County's property, any computer programs, data compilations, or other software which the County has developed, has used, or is using, is holding for use, or which are otherwise in the possession of the County (the "Computer Software"). All third-party license agreements provided to Contractor must also be honored by the Contractor and its employees, except as authorized by the County and, if the Computer Software has been leased or purchased by the County, all hired party license agreements must also be honored by the contractors' employees with the approval of the lessor or contractors thereof. This includes mainframe, minis, telecommunications, personal computers, and all information technology software.

The Contractor will report to the County any information discovered or which is disclosed to the Contractor which may relate to the improper use, publication, disclosure, or removal from the County's property of any information technology software and hardware and will take such steps as are within the Contractor's authority to prevent improper use, disclosure, or removal.

ARTICLE38. PROPRIETARY RIGHTS

a) COUNTY'S PROPRIETARY RIGHTS

The Contractor hereby acknowledges and agrees that the County retains all rights, title and interests in and to all materials, data, documentation and copies thereof furnished by the County to the Contractor hereunder. The Contractor shall not without the prior written consent of the County, use such documentation on any other project in which the Contractor or its employees, agents, Subcontractors are or may become engaged. Submission or distribution by the Contractor to meet official regulatory requirements or for other purposes in connection with the performance of Services under this Agreement shall not be construed as publication in derogation of the County's copyrights or other proprietary rights.

b) THE CONTRACTOR'S PROPRIETARY RIGHTS.

The Contractor, the third party manufacturer of any Equipment, and the copyright owner of any Non-Motorola Software own and retain all of their respective Proprietary Rights in the Equipment and Software, and nothing in this Agreement is intended to restrict their Proprietary Rights. All intellectual property developed, originated, or prepared by the Contractor in connection with providing to County the Equipment, Software, or related services remain vested exclusively in the Contractor, and this Agreement does not grant to County any shared development rights of intellectual property. Except as explicitly provided in the Software License Agreement, the Contractor does not grant to County, either directly or by implication, estoppel, or otherwise, any right, title or interest in the Contractor's Proprietary Rights. County will not modify, disassemble, peel components, decompile, otherwise reverse engineer or attempt to reverse engineer, derive source code or create derivative works from, adapt, translate, merge with other software, reproduce, distribute, sublicense, sell or export the Software, or permit or encourage any third party to do so. The preceding sentence does not apply to Open Source Software which is governed by the standard license of the copyright owner.

VOLUNTARY DISCLOSURE. Except as required to fulfill its obligations under this Agreement, the Contractor will have no obligation to provide County with access to its Confidential Information and/or proprietary information. Under no circumstances will the Contractor be required to provide any data related to raw costs and pricing unless required to fulfill its obligations under Florida law.

ARTICLE 39. VENDOR REGISTRATION/CONFLICT OF INTEREST

a) Vendor Registration

The Contractor shall be a registered vendor with the County - Internal Services Department, Strategic Procurement Division, for the duration of this Agreement. In becoming a registered vendor with Miami-Dade County, the vendor's Federal Employer Identification. Number (FEIN) must be provided, via submission of Form W-9 and 147c. Letter, as required by the Internal Revenue Service (IRS). If no FEIN exists, the Social Security Number of the owner must be provided as the legal entity identifier. This number becomes Contractor's "County Vendor Number." To comply with Section 119.071(5) of the Florida Statutes relating to the collection of an individual's Social Security Number, be aware that the County requests the Social Security Number for the following purposes:

- Identification of individual account records
- Payments to individual/Contractor for goods and services provided to Miami-Dade County
- Tax reporting purposes
- Provision of unique identifier in the vendor database used for searching and sorting departmental records

The Contractor confirms its knowledge of and commitment to comply with the following:

- Miami-Dade County Ownership Disclosure Affidavit (Section 2-8.1 of the Code of Miami-Dade County)
- 2. Miami-Dade County Employment Disclosure Affidavit

(Section 2.8.1(d)(2) of the Code of Miami-Dade County)

- 3. Miami-Dade County Employment Drug-free Workplace Certification (Section 2-8.1.2(b) of the Code of Miami-Dade County)
- Miami-Dade County Disability and Nondiscrimination Affidavit (Section 2-8.1.5 of the Code of Miami-Dade County)
- 5. Miami-Dade County Debarment Disclosure Affidavit (Section 10.38 of the Code of Miami-Dade County)
- Miami-Dade County Vendor Obligation to County Affidavit (Section 2-8.1 of the Code of Miami-Dade County)
- Miami-Dade County Code of Business Ethics Affidavit (Article I, Section 281f) of the Oxfe of Memi-Dade Oxrty)
- 8. Miami-Dade County Family Leave Affidavit (Article V of Chapter 11 of the Code of Miami-Dade County)
- 9. Miami-Dade County Living Wage Affidavit (Section 2-8.9 of the Code of Miami-Dade County)
- 10. Miami-Dade County Domestic Leave and Reporting Affidavit (Article VIII, Section 11A-60 11A-67 of the Code of Miami-Dade County)
- 11. Miami-Dade County Verification of Employment Eligibility (E-Verify) Affidavit. (Section 448.095, of the Florida State Statutes)
- 12. Miami-Dade County Pay Parity Affidavit (Resolution No. R-1072-17)
- Miami-Dade County Suspected Workers' Compensation Fraud Affidavit (Resolution No. R-919-18)
- 14. Office of the Inspector General (Section 2-1076 of the Code of Miami-Dade County)
- 15. Small Business Enterprises
 The County endeavors to obtain the participation of all small business enterprises pursuant to Sections 2-8.1.1.1.1, 2-8.1.1.1.2
 and 2-8.2.2 of the Code of Miami-Dade County and Title 49 of the Code of Federal Regulations.
- 16. Antitrust Laws
 By acceptance of any contract, the Contractor agrees to comply with all antitrust laws of the United States and the State of Florida.
- Conflict of Interest and Code of Ethics
 Section 2-11.1(d) of the Code requires that any County employee or any member of the employee's immediate family who has a controlling financial interest, direct or indirect, with Miami-Dade County or any person or agency acting for Miami-Dade County, competing or applying for a contract, must first request a conflict of interest opinion from the County's Ethics Commission prior to their or their immediate family member's entering into any contract or transacting any business through a firm, corporation, partnership or business entity in which the employee or any member of the employee's immediate family has a controlling financial interest, direct or indirect, with Miami-Dade County or any person or agency acting for Miami-Dade County. Any such contract or business engagement entered in violation of this subsection, as amended, shall be rendered voidable. All autonomous personnel, quasi-judicial personnel, advisory personnel, and employees wishing to do business with the County are hereby advised they must comply with the applicable provisions of Section 2-11.1 of the Code relating to Conflict of Interest and Code of Ethics. In accordance with Section 2-11.1(y) of the Code, the Miami-Dade County Commission on Ethics and Public Trust shall be empowered to review, interpret, render advisory opinions and letters of instruction, and enforce the Conflict of Interest and Code of Ethics Ordinance.

ARTICLE 40. INSPECTOR GENERAL REVIEWS

Independent Private Sector Inspector General Reviews

Pursuant to Miami-Dade County Administrative Order No. 3-20, the County has the right to retain the services of an Independent Private Sector Inspector General (the "IPSIG"), whenever the County deems it appropriate to do so. Upon written notice from the County, the Contractor shall make available to the IPSIG retained by the County, all requested records and documentation pertaining to this Agreement for inspection and reproduction. The County shall be responsible for the payment of these IPSIG services, and under no circumstance shall the Contractor's prices and any changes thereto approved by the County, be inclusive of any charges relating to these IPSIG services. The terms of this provision apply to the Contractor, its officers, agents, employees, Subcontractors, and assignees. Nothing contained in this provision shall impair any independent right of the County to conduct an audit or investigate the operations, activities, and performance of the Contractor in connection with this Agreement. The terms of this Article shall not impose any liability on the County by the Contractor or any third party.

Miami-Dade County Inspector General Review

According to Section 2-1076 of the Code, Miami-Dade County has established the Office of the Inspector General which may, on a random basis, perform audits on all County contracts, throughout the duration of said contracts. The cost of the audit for this Agreement shall be one quarter of one percent (0.25%) of the total Agreement amount which cost shall be included in the total Agreement amount. The audit cost will be deducted by the County from progress payments to the Contractor. The audit cost shall also be included in all change orders and all Agreement renewals and extensions.

Exception: The above application of one quarter of one percent (0.25%) fee assessment shall not apply to the following contracts: (a) IPSIG contracts; (b) contracts for legal services; (c) contracts for financial advisory services; (d) auditing contracts; (e) facility rentals and lease agreements; (f) concessions and other rental agreements; (g) insurance contracts; (h) revenue-generating contracts; (i) contracts where an IPSIG is assigned at the time the contract is approved by the Board; (j) professional service agreements under \$1,000; (k) management agreements; (l) small purchase orders as defined in Miami-Dade County Implementing Order No. 3-38; (m) federal, state and local government-funded grants; and (n) interlocal agreements. Notwithstanding the foregoing, the Miami-Dade County Board of County Commissioners may authorize the inclusion of the fee assessment of one quarter of one percent (0.25%) in any exempted contract at the time of award.

Nothing contained above shall in any way limit the powers of the Inspector General to perform audits on all County contracts including, but not limited to, those contracts specifically exempted above. The Miami-Dade County Inspector General is authorized and empowered to review past, present, and proposed County and Trust contracts, transactions, accounts, records, and programs. In addition, the Inspector General has the power to subpoen a witnesses, administer oaths, require the production of records, and monitor existing projects and programs. Monitoring of an existing project or program may include a report concerning whether the project is on time, within budget and in conformance with plans, specifications, and applicable law. The Inspector General is empowered to analyze the necessity of and reasonableness of proposed change orders to the Agreement. The Inspector General is empowered to retain the services of IPSIGs to audit, investigate, monitor, oversee, inspect, and review operations, activities, performance and procurement process, including but not limited to project design, specifications, proposal submittals, activities of the Contractor, its officers, agents and employees, lobbylists, County staff and elected officials to ensure compliance with contract specifications and to detect fraud and corruption.

Upon written notice to the Contractor from the Inspector General or IPSIG retained by the Inspector General, the Contractor shall make all requested records and documents available to the Inspector General or IPSIG for inspection and copying. The Inspector General and IPSIG shall have the right to inspect and copy all documents and records in the Contractor's possession, custody or control which, in the Inspector General's or IPSIG's sole judgment, pertain to

performance of the Agreement, including, but not limited to original estimate files, change order estimate files, worksheets, proposals and agreements form and which successful and unsuccessful Subcontractors, all project-related correspondence, memoranda, instructions, financial documents, construction documents, proposal and contract documents, back-charge documents, all documents and records which involve cash, trade or volume discounts, insurance proceeds, rebates, or dividends received, payroll and personnel records, and supporting documentation for the aforesaid documents and records.

ARTICLE 41. FEDERAL, STATE, AND LOCAL COMPLIANCE REQUIREMENTS

As applicable, Contractor shall comply, subject to applicable professional standards, with the provisions of all applicable federal, state and the County orders, statutes, ordinances, rules and regulations which may pertain to the Services required under this Agreement, including, but not limited to:

- a) Equal Employment Opportunity clause provided under 41 C.F.R. Part 60-1.3 in accordance with Executive Order 11246, "Equal Employment Opportunity", as amended.
- b) Miami-Dade County Small Business Enterprises Development Participation Provisions.
- c) The Clean Air Act (42 U.S.C. § 7401-7671q.) and the Federal Water Pollution Contract Act (33 U.S.C. §§ 1251-1387), as amended.
- d) The Davis-Bacon Act (40 U.S.C. §§ 3141-3144 and 3146-3148) as supplemented by the Department of Labor regulations (29 C.F.R. Part 5).
- e) The Copeland "Anti-Kickback" Act (40 U.S.C. § 3145) as supplemented by the Department of Labor regulations (29 C.F.R. Part 2).
- f) Section 2-11.1 of the Code of Miami-Dade County, "Conflict of Interest and Code of Ethics".
- g) Section 10-38 of the Code of Miami-Dade County, "Debarment of Contractors from County Work".
- h) Section 11A-60 11A-67 of the Code of Miami-Dade County, "Domestic Leave".
- Section 21-255 of the Code of Miami-Dade County, prohibiting the presentation, maintenance, or prosecution of false or fraudulent claims against Miami-Dade County.
- j) The Equal Pay Act of 1963, as amended (29 U.S.C. § 206(d)).
- k) Section 448.07 of the Florida Statutes "Wage Rate Discrimination Based on Sex Prohibited".
- 1) Chapter 11A of the Code of Miami-Dade County (§ 11A-1 et seq.) "Discrimination".
- m) Chapter 22 of the Code of Miami-Dade County (§ 22-1 et seq.) "Wage Theft".
- n) Chapter 8A, Article XIX, of the Code of Miami-Dade County (§ 8A-400 et seq.) "Business Regulations".
- o) Any other laws prohibiting wage rate discrimination based on sex.
- p) Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352).
- q) Executive Order 12549 "Debarment and Suspension", which stipulates that no contract(s) are "to be awarded at any tier or to any party which is debarred or suspended or is otherwise excluded from or ineligible for participation in Federal assistance programs".

r) The prohibitions against discrimination on the basis of age under the Age Discrimination Act of 1975 (42 U.S.C. §§ 6101-07) and regulations issued pursuant thereto (24 C.F.R. Part 146).

Pursuant to Resolution No. R-1072-17, by entering into this Agreement, the Contractor is certifying that the Contractor is in compliance with, and will continue to comply with, the provisions of items "f" through "k" above.

The Contractor shall hold all licenses and/or certifications, obtain and pay for all permits and/or inspections, and comply with all laws, ordinances, regulations and building code requirements applicable to the work required herein. Damages, penalties, and/or fines imposed on the County or Contractor for failure to obtain and maintain required licenses, certifications, permits and/or inspections shall be borne by the Contractor. The Project Manager shall verify the certification(s), license(s), and permit(s) for the Contractor prior to authorizing Work and as needed.

Notwithstanding any other provision of this Agreement, Contractor shall not be required pursuant to this Agreement to take any action or abstain from taking any action if such action or abstention would, in the good faith determination of the Contractor, constitute a violation of any law or regulation to which Contractor is subject, including but not limited to laws and regulations requiring that Contractor conduct its operations in a safe and sound manner.

ARTICLE 41. NONDISCRIMINATION

During the performance of this Agreement, Contractor agrees to not discriminate against any employee or applicant for employment because of race, color, religion, ancestry, national origin, sex, pregnancy, age, disability, marital status, familial status, sexual orientation, gender identity or gender expression, status as victim of domestic violence, dating violence or stalking, or veteran status, and on housing related contracts the source of income, and will take affirmative action to ensure that employees and applicants are afforded equal employment opportunities without discrimination. Such action shall be taken with reference to, but not limited to recruitment, employment, termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on the job training.

By entering into this Agreement, the Contractor attests that it is not in violation of the Americans with Disabilities Act of 1990 (and related Acts) or Miami-Dade County Resolution No. R-385-95. If the Contractor or any owner, subsidiary or other firm affiliated with or related to the Contractor is found by the responsible enforcement agency or the County to be in violation of the Act or the Resolution, such violation shall render this Agreement void. This Agreement shall be void if the Contractor submits a false affidavit pursuant to this Resolution or the Contractor violates the Act or the Resolution during the term of this Agreement, even if the Contractor was not in violation at the time it submitted its affidavit.

ARTICLE 42. CONFLICT OF INTEREST

The Contractor represents that

- a) No officer, director, employee, agent, or other consultant of the County or a member of the immediate family or household of the aforesaid has directly or indirectly received or been promised any form of benefit, payment, or compensation, whether tangible or intangible, in connection with the award of this Agreement
- b) There are no undisclosed persons or entities interested with the Contractor in this Agreement. This Agreement is entered into by the Contractor without any connection with any other entity or person making a proposal for the same purpose, and without collusion, fraud or conflict of interest. No elected or appointed officer or official, director, employee, agent, or other consultant of the County, or of the State of Florida (including elected and appointed members of the legislative and executive branches of government), or a member of the immediate family or household of any of the aforesaid:
 - i) is interested on behalf of or through the Contractor directly or indirectly in any manner whatsoever in the

execution or the performance of this Agreement, or in the Services, Deliverables or Work, to which this Agreement relates or in any portion of the revenues; or

- ii) is an employee, agent, advisor, or consultant to the Contractor or to the best of the Contractor's knowledge any Subcontractor or supplier to the Contractor.
- c) Neither the Contractor nor any officer, director, employee, agency, parent, subsidiary, or affiliate of the Contractor shall have an interest which is in conflict with the Contractor's faithful performance of its obligation under this Agreement, provided that the County, in its sole discretion, may consent in writing to such a relationship, provided the Contractor provides the County with a written notice, in advance, which identifies all the individuals and entities involved and sets forth in detail the nature of the relationship and why it is in the County's best interest to consent to such relationship.
- d) The provisions of this Article are supplemental to, not in lieu of, all applicable laws with respect to conflict of interest. In the event there is a difference between the standards applicable under this Agreement and those provided by statute, the stricter standard shall apply.
- e) In the event Contractor has no prior knowledge of a conflict of interest as set forth above and acquires information which may indicate that there may be an actual or apparent violation of any of the above, Contractor shall promptly bring such information to the attention of the Project Manager. Contractor shall thereafter cooperate with the County's review and investigation of such information and compty with the instructions Contractor receives from the Project Manager regarding remedying the situation.

ARTICLE 43. PRESS RELEASE OR OTHER PUBLIC COMMUNICATION

Under no circumstances shall the Contractor without the express written consent of the County:

- a) Issue or permit to be issued any press release, advertisement or literature of any kind which refers to the County, or the Work being performed hereunder, unless the Contractor first obtains the written approval of the County. Such approval may be withheld if for any reason the County believes that the publication of such information would be harmful to the public interest or is in any way undesirable; and
- b) Communicate in any way with any contractor, department, board, agency, commission or other organization or any person whether governmental or private in connection with the Work to be performed hereunder except upon prior written approval and instruction of the County; and
- c) Except as may be required by law, the Contractor and its employees, agents, Subcontractors, and suppliers will not represent, directly or indirectly, that any Work, Deliverables or Services provided by the Contractor or such parties has been approved or endorsed by the County.

ARTICLE 44. BANKRUPTCY

The County may terminate this Agreement, if, during the term of any contract the Contractor has with the County, the Contractor becomes involved as a debtor in a bankruptcy proceeding, or becomes involved in a reorganization, dissolution, or liquidation proceeding, or if a trustee or receiver is appointed over all or a substantial portion of the property of the Contractor under federal bankruptcy law or any state insolvency law.

ARTICLE 45. GOVERNING LAW

This Agreement, including appendices, and all matters relating to this Agreement (whether in contract, statute, tort (such as negligence), or otherwise) shall be governed by, and construed in accordance with, the laws of the State of Florida. Venue shall be in Miami-Dade County.

ARTICLE 46. COUNTY USER ACCESS PROGRAM (UAP)

a) User Access Fee

Pursuant to Section 2-8.10 of the Code, this Agreement is subject to a user access fee under the County User Access Program ("UAP") in the amount of two percent (2%). All sales resulting from this Agreement, or any contract resulting from the solicitation referenced on the first page of this Agreement, and the utilization of the County Agreement price and the terms and conditions identified herein, are subject to the two percent (2%) UAP. This fee applies to all Agreement usage whether by County Departments or by any other governmental, quasi-governmental or not-for-profit entity.

The Contractor providing goods or services under this Agreement shall invoice the Agreement price and shall accept as payment thereof the Agreement price less the 2% UAP as full and complete payment for the goods and/or services specified on the invoice. The County shall retain the 2% UAP for use by the County to help defray the cost of the procurement program. Contractor participation in this invoice reduction portion of the UAP is mandatory.

b) Joint Purchase

Only those entities that have been approved by the County for participation in the County's Joint Purchase and Entity Revenue Sharing Agreement are eligible to utilize or receive County Agreement pricing and terms and conditions. The County will provide to approved entities a UAP Participant Validation Number. The Contractor must obtain the participation number from the entity prior to filling any order placed pursuant to this Section. Contractor participation in this joint purchase portion of the UAP, however, is voluntary. The Contractor shall notify the ordering entity, in writing, within three business days of receipt of an order, of a decision to decline the order.

For all ordering entities located outside the geographical boundaries of Miami-Dade County, the Contractor shall be entitled to ship goods on an "FOB Destination, Prepaid and Charged Back" basis. This allowance shall only be made when expressly authorized by a representative of the ordering entity prior to shipping the goods.

The County shall have no liability to the Contractor for the cost of any purchase made by an ordering entity under the UAP and shall not be deemed to be a party thereb. All orders shall be placed directly by the ordering entity with the Contractor and shall be paid by the ordering entity less the 2% UAP.

c) Contractor Compliance

If a Contractor fails to comply with this Article, that Contractor may be considered in default by the County in accordance with Article 24 of this Agreement.

ARTICLE 47. INTEREST OF MEMBERS, OFFICERS OR EMPLOYEES AND FORMER MEMBERS, OFFICERS OR EMPLOYEES

No member, officer, or employee of the County, no member of the governing body of the locality in which this Agreement is situated, no member of the governing body in which the County was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the project, shall, during his or her tenure, or for one year thereafter, have any interest, direct or indirect, in this Agreement or the proceeds thereof.

ARTICLE 48. LIENS

The Contractor is prohibited from placing a lien on County property. This prohibition shall apply to all Subcontractors.

ARTICLE 49. FIRST SOURCE HIRING REFERRAL PROGRAM

Pursuant to Section 2-2113 of the Code, for all contracts for goods and services, the Contractor, prior to hiring to fill each vacancy arising under a County contract shall (1) first notify Career Source South Florida ("CSSF"), the designated Referral Agency, of the vacancy and list the vacancy with CSSF according to the Code, and (2) make good faith efforts as determined by the County to fill a minimum of fifty percent (50%) of its employment needs under the County contract through the CSSF. If no suitable candidates can be employed after a Referral Period of three to five days, the Contractor is free to fill its vacancies from other sources. Contractor will be required to provide quarterly reports to the CSSF indicating the name and number of employees hired in the previous quarter, or why referred candidates were rejected. Sanctions for non-compliance shall include, but not be limited to: (i) suspension of Agreement until Contractor performs obligations, if appropriate; (ii) default and/or termination; and (iii) payment of \$1,500/employee, or the value of the wages that would have been earned given the noncompliance, whichever is less. Registration procedures and additional information regarding the First Source Hiring Referral Program are available at https://iapps.careersourcest.com/firstsource/.

ARTICLE 50. PUBLIC RECORDS AND CONTRACTS FOR SERVICES PERFORMED ON BEHALF OF MIAMI-DADE COUNTY

The Contractor shall comply with the Public Records Laws, including by not limited to, (1) keeping and maintaining all public records that ordinarily and necessarily would be required by the County in order to perform the service; (2) providing the public with access to public records on the same terms and conditions that the County would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law; (3) ensuring that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law; and (4) meeting all requirements for retaining public records and transferring, at no cost, to the County all public records in possession of the Contractor upon termination of the Agreement and destroying any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements upon such transfer. In addition, all records stored electronically must be provided to the County in a format that is compatible with the information technology systems of the County. Failure to meet any of these provisions or to comply with Florida's Public Records Laws as applicable shall be a material breach of this Agreement and shall be enforced in accordance with the terms and conditions of the Agreement

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT (305) 375-5773, ISD-VSS@MIAMIDADE.GOV, 111 NW 1st STREET, SUITE 1300, MIAMI, FLORIDA 33128.

ARTICLE 51. VERIFICATION OF EMPLOYMENT ELIGIBILITY (E-VERIFY)

By entering into this Agreement, the Contractor becomes obligated to comply with the provisions of Section 448.095 of the Florida Statutes, tited "Verification of Employment Eligibility". This includes but is not limited to utilization of the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of all newly hired employees by the Contractor effective January 1, 2021 and requiring all Subcontractors to provide an affidavit attesting that the Subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Failure to comply may lead to termination of this Agreement, or if a Subcontractor knowingly violates the statute, the subcontract must be terminated immediately. Any challenge to termination under this provision must be filed in the Circuit Court no later than twenty (20) calendar days after the date of termination and the Contractor may be liable for any additional costs incurred by the County resulting from the termination of the Agreement. If this Agreement is terminated for a violation of the statute by the Contractor, the Contractor may not be awarded a public contract for a period of one year after the

date of termination. Public and private employers must enroll in the E-Verify System (http://www.uscis.gov/e-verify) and retain the I-9 Forms for inspection.

ARTICLE 52. TAXES

The contract price does not include any excise, sales, lease, use, property, or other taxes, assessments or duties, all of which will be paid by the County except as exempt by law. If the County is exempt by law, the County agrees to provide Contractor with a copy of its tax exempt status. If Contractor is required to pay any of these taxes, Contractor will send an invoice to the County and the County will pay to Contractor the amount of the taxes (including any interest and penalties) within twenty (20) days after the date of the invoice. The County will be solely responsible for reporting the Tower for personal property tax purposes, and Contractor will be solely responsible for reporting taxes on its income or net worth.

ARTICLE 53. MOTOROLA SOFTWARE LICENSE AGREEMENT/SUBSCRIPTION SERVICES

Both the Contractor and the County hereby agree to incorporate the Motorola Software License Agreement attached hereto as Exhibit A, and agree that the radios to be purchased will require Subscription Services more fully described and set forth in the Subscription Agreement Addendum, the FirstNet and AT&T Service Terms, the Addendum to Customer Agreement for Transport Connectivity attached hereto and fully incorporated herein Exhibit B, C and D, respectively.

ARTICLE 54. CRIMINAL JUSTICE INFORMATION SYSTEM SECURITY

Any contract awarded to a private contractor/vendor wherein a software application/program that accesses, processes, and stores criminal justice information (CJI) or Personally Identifiable Information (PII), or the selected private contractor/vendor requires physical or logical access to the MDPD's network which contains CJI or PII, must comply with all security policy requirements outlined in the Florida Department of Law Enforcement's (FDLE) Criminal Justice Information Systems (CJIS) Security Policy. Additionally, the selected private contractor/vendor, and any of its employees or subcontractors, that requires logical access to the MDPD's network must review the attached Federal Bureau of Investigation's (FBI) CJIS Security Addendum (Annex A), and sign the FBI's CJIS Security Addendum Certification (Annex B) upon completion of a state and national fingerprint-based record check, criminal background check, proof of citizenship or authorization to be employed in the United States, biennially. Further, support personnel, contractors, and custodial workers with access to physically secure locations or controlled areas shall be subject to a state and national fingerprint-based record check unless these individuals are escorted by authorized personnel at all times.

ARTICLE 55. ADDITIONAL EQUIPMENT, PRODUCTS OR SERVICES

During the term of the Agreement, including any extensions or renewals thereof, the County may request additional equipment, products, and/or services available from the Contractor that are similar in nature to the equipment, products and/or services available under this Agreement. In the event that the County requires such equipment, products, and/or services, the County shall request a detailed State of Work from the Contractor that shall define in detail the equipment, products and/or services to be provided. The County and the Contractor shall mutually agree upon the terms and conditions required to complete the statement of Work, including associated pricing. Each Statement of Work executed hereunder shall be incorporated into the terms and conditions of this Agreement through a Supplemental Agreement

ARTICLE 56. SURVIVAL

The Parties acknowledge that any of the obligations in this Agreement will survive the term, termination, and cancellation hereof. Accordingly, the respective obligations of the Contractor and the County under this Agreement, which by nature would continue beyond the termination, cancellation, or expiration thereof, shall survive termination, cancellation or expiration hereof.

IN WITNESS WHEREOF, the Parties have executed this Agreement effective as of the last date that the Agreement is executed below,

Contractor: Motorola Solutions, Inc. By:	Miami-Dade County Alfredo "Freddy" Ramirez III Chief of Safety and Emergency Response Officer
Name: Daniel Sanchez	Name: Daniella Levine Cava
Tifle: MSSI/Territory Vice President	Tite: Mayor
Date: 07/07/2022	Date: 8 22
Attest SAAAAATV	Attest
Corporate Assistant Secretary/Notary	Clerk of the Board
Corporate Seal/Notaro Hotel Tatlanna Gil Notary Public State of Florida Comm# HH069886 State of Florida, County Of Miami-Dade Expires 12/7/2024 The foregoing instrument was acknowledged before methis day of	Approved as to form and legal sufficiency Assistant County Attorney
who is personally known to me or who has produced as identification. Tatlanna Gil Notary Public State of Florida Comm# HH069886 Expires 12/7/2024	CLERK OF THE = 0 ord Mami-Dade Chromodal Horida AUG = 1 2022

Exhibit A MOTOROLA SOFTWARE LICENSE AGREEMENT

This Exhibit A Contractor Software License Agreement ("Agreement") is between Motorola Solutions, Inc. ("Contractor") and Miami-Dade County, Florida ("Licensee"). For good and valuable consideration, the parties agree as follows:

Section 1 DEFINITIONS

- 1.1 "Designated Products" means products provided by Contractor to Licensee with which or for which the Software and Documentation is licensed for use.
- 1.2 "Documentation" means product and software documentation that specifies technical and performance features and capabilities, and the user, operation and training manuals for the Software (including all physical or electronic media upon which such information is provided).
- 1.3 "Open Source Software" means software with either freely obtainable source code, license for modification, or permission for free distribution.
- 1.4 "Open Source Software License" means the terms or conditions under which the Open Source Software is licensed.
- 1.5 "Primary Agreement" means the agreement to which this exhibit is attached.
- 1.6 "Security Vulnerability" means a flaw or weakness in system security procedures, design, implementation, or internal controls that could be exercised (accidentally triggered or intentionally exploited) and result in a security breach such that data is compromised, manipulated or stolen or the system damaged.
- 1.7 "Software" (i) means proprietary software in object code format, and adaptations, translations, decompilations, disassemblies, emulations, or derivative works of such software; (ii) means any modifications, enhancements, new versions and new releases of the software provided by Contractor; and (iii) may contain one or more items of software owned by a third party supplier. The term "Software" does not include any third party software provided under separate license or third party software not licensable under the terms of this Agreement.

Section 2 SCOPE

Contractor and Licensee enter into this Agreement in connection with Contractor's delivery of certain proprietary software or products containing embedded or pre-loaded proprietary software, or both. This Agreement contains the terms and conditions of the license Contractor is providing to Licensee, and Licensee's use of the proprietary software and affiliated documentation.

Section 3 GRANT OF LICENSE

- 3.1. Subject to the provisions of this Agreement and the payment of applicable license fees, Contractor grants to Licensee a personal, limited, non-transferable (except as permitted in Section 7) and non-exclusive license under Contractor's copyrights and Confidential Information (as defined in the Primary Agreement) embodied in the Software to use the Software, in object code form, and the Documentation solely in connection with Licensee's use of the Designated Products. This Agreement does not grant any rights to source code.
- 3.2. If the Software licensed under this Agreement contains or is derived from Open Source Software, the terms and conditions governing the use of such Open Source Software are in the Open Source Software Licenses of the copyright owner and not this Agreement. If there is a conflict between the terms and

conditions of this Agreement and the terms and conditions of the Open Source Software Licenses governing Licensee's use of the Open Source Software, the terms and conditions of the license grant of the applicable Open Source Software Licenses will take precedence over the license grants in this Agreement. If requested by Licensee, Contractor will use commercially reasonable efforts to: (i) determine whether any Open Source Software is provided under this Agreement; and (ii) identify the Open Source Software (or specify where that license may be found).

3.3 TO THE EXTENT, IF ANY, THAT THERE IS A SEPARATE LICENSE AGREEMENT PACKAGED WITH, OR PROVIDED ELECTRONICALLY WITH, A PARTICULAR PRODUCT THAT BECOMES EFFECTIVE ON AN ACT OF ACCEPTANCE BY THE END USER, THEN THAT AGREEMENT SUPERSEDES THE SOFTWARE LICENSE AGREEMENT AS TO THE END USER OF EACH SUCH PRODUCT.

Section 4 LIMITATIONS ON USE

- 4.1. Licensee may use the Software only for Licensee's internal business purposes and only in accordance with the Documentation. Any other use of the Software is strictly prohibited. Without limiting the general nature of these restrictions, Licensee will not make the Software available for use by third parties on a "time sharing," "application service provider," or "service bureau" basis or for any other similar commercial rental or sharing arrangement.
- 4.2. Licensee will not, and will not allow or enable any third party to: (i) reverse engineer, disassemble, peel components, decompile, reprogram or otherwise reduce the Software or any portion to a human perceptible form or otherwise attempt to recreate the sourcecode; (ii) modify, adapt, create derivative works of, or merge the Software; (iii) copy, reproduce, distribute, lend, or lease the Software or Documentation to any third party, grant any sublicense or other rights in the Software or Documentation to any third party, or take any action that would cause the Software or Documentation to be placed in the public domain; (iv) remove, or in any way alter or obscure, any copyright notice or other notice of Contractor's proprietary rights; (v) provide, copy, transmit, disclose, divulge or make the Software or Documentation available to, or permit the use of the Software by any third party or on any machine except as expressly authorized by this Agreement; or (vi) use, or permit the use of, the Software in a manner that would result in the production of a copy of the Software solely by activating a machine containing the Software. Licensee may make one copy of Software to be used solely for archival, back-up, or disaster recovery purposes; provided that Licensee may not operate that copy of the Software at the same time as the original Software is being operated. Licensee may make as many copies of the Documentation as it may reasonably require for the internal use of the Software.
- 4.3. Unless otherwise authorized by Contractor in writing, Licensee will not, and will not enable or allow any third party to: (i) install a licensed copy of the Software on more than one unit of a Designated Product; or (ii) copy onto or transfer Software installed in one unit of a Designated Product onto one other device. Licensee may temporarily transfer Software installed on a Designated Product to another device if the Designated Product is inoperable or malfunctioning, if Licensee provides written notice to Contractor of the temporary transfer and identifies the device on which the Software is transferred. Temporary transfer of the Software to another device must be discontinued when the original Designated Product is returned to operation and the Software must be removed from the other device. Licensee must provide prompt written notice to Contractor at the time temporary transfer is discontinued.
- Licensee will maintain, during the term of this Agreement and for a period of two years thereafter, accurate records relating to this license grant to verify compliance with this Agreement. Contractor or an independent third party ("Auditor") may inspect Licensee's premises, books and records, upon reasonable prior notice to Licensee, during Licensee's normal business hours and subject to Licensee's facility and security regulations. Contractor is responsible for the payment of all expenses and costs of the Auditor. Any information obtained by Contractor and the Auditor will be kept in strict confidence by Contractor and the Auditor and used solely for the purpose of verifying Licensee's compliance with the terms of this Agreement.

Section 5 OWNERSHIP AND TITLE

Contractor, its licensors, and its suppliers retain all of their proprietary rights in any form in and to the Software and Documentation, including, but not limited to, all rights in patents, patent applications, inventions, copyrights, trademarks, trade secrets, trade names, and other proprietary rights in or relating to the Software and Documentation (including any corrections, bug fixes, enhancements, updates, modifications, adaptations, translations, de-compilations, disassemblies, emulations to or derivative works from the Software or Documentation, whether made by Contractor or another party, or any improvements that result from Contractor's processes or, provision of information services). No rights are granted to Licensee under this Agreement by implication, estoppel or otherwise, except for those rights which are expressly granted to Licensee in this Agreement. All intellectual property developed, originated, or prepared by Contractor in connection with providing the Software, Designated Products, Documentation or related services, remains vested exclusively in Contractor, and Licensee will not have any shared development or other intellectual property rights.

Section 6 LIMITED WARRANTY; DISCLAIMER OF WARRANTY

- 6.1. Unless otherwise stated in the Primary Agreement, the commencement date and the term of the Software warranty will be a period of ninety (90) days from Contractor's shipment of the Software (the "Warranty Period"). If Licensee is not in breach of any of its obligations under this Agreement, Contractor warrants that the unmodified Software, when used properly and in accordance with the Documentation and this Agreement, will be free from a reproducible defect that eliminates the functionality or successful operation of a feature critical to the primary functionality or successful operation of the Software. Whether a defect occurs will be determined by Contractor solely with reference to the Documentation. Contractor does not warrant that Licensee's use of the Software or the Designated Products will be uninterrupted, error-free, completely free of Security Vulnerabilities, or that the Software or the Designated Products will meet Licensee's particular requirements. Contractor makes no representations or warranties with respect to any third party software included in the Software. Notwithstanding, any warranty provided by a copyright owner in its standard license terms will flow through to Licensee for third party software provided by Contractor.
- 6.2 Contractor's sole obligation to Licensee and Licensee's exclusive remedy under this warranty is to use reasonable efforts to remedy any material Software defect covered by this warranty. These efforts will involve either replacing the media or attempting to correct significant, demonstrable program or documentation errors or Security Vulnerabilities. If Contractor cannot correct the defect within a reasonable time, then at Contractor's option, Contractor will replace the defective Software with functionally-equivalent Software, license to Licensee substitute Software which will accomplish the same objective, or terminate the license and refund the Licensee's paid license fee.
- 6.3. Warranty claims are described in the Primary Agreement.
- 6.4. The express warranties set forth in this Section 6 are in lieu of, and Contractor disclaims, any and all other warranties (express or implied, oral or written) with respect to the Software or Documentation, including, without limitation, any and all implied warranties of condition, title, non-infringement, merchantability, or fitness for a particular purpose or use by Licensee (whether or not Contractor knows, has reason to know, has been advised, or is otherwise aware of any such purpose or use), whether arising by law, by reason of custom or usage of trade, or by course of dealing. In addition, Contractor disclaims any warranty to any person other than Licensee with respect to the Software or Documentation.

Section 7 TRANSFERS

Licensee will not transfer the Software or Documentation to any third party without Contractor's prior written consent. Contractor's consent may be withheld at its discretion and may be conditioned upon transferee paying all applicable license fees and agreeing to be bound by this Agreement. If the Designated Products are Contractor's radio products and Licensee transfers ownership of the Contractor radio products to a third party, Licensee may assign its right to use the Software (other than CPS and Contractor's FLASHport®

software) which is embedded in or furnished for use with the radio products and the related Documentation; provided that Licensee transfers all copies of the Software and Documentation to the transferee, and Licensee and the transferee sign a transfer form to be provided by Contractor upon request, obligating the transferee to be bound by this Agreement.

Section 8 TERM AND TERMINATION

- 8.1 Licensee's right to use the Software and Documentation will begin when the Primary Agreement is signed by both parties and will continue for the life of the Designated Products with which or for which the Software and Documentation have been provided by Contractor, unless Licensee breaches this Agreement, in which case this Agreement and Licensee's right to use the Software and Documentation may be terminated immediately upon notice by Contractor.
- 8.2 Within thirty (30) days after termination of this Agreement, Licensee must certify in writing to Contractor that all copies of the Software have been removed or deleted from the Designated Products and that all copies of the Software and Documentation have been returned to Contractor or destroyed by Licensee and are no longer in use by Licensee.
- 8.3 Licensee acknowledges that Contractor made a considerable investment of resources in the development, marketing, and distribution of the Software and Documentation and that Licensee's breach of this Agreement will result in irreparable harm to Contractor for which monetary damages would be inadequate. If Licensee breaches this Agreement, Contractor may terminate this Agreement and be entitled to all available remedies at law or in equity (including immediate injunctive relief and repossession of all non-embedded Software and associated Documentation unless Licensee is a Federal agency of the United States Government).

Section 9 COMMERCIAL COMPUTER SOFTWARE

- 9.1 This Section 9 only applies to U.S. Government end users. The Software, Documentation and updates are commercial items as that term is defined at 48 C.F.R. Part 2.101, consisting of "commercial computer software" and "computer software documentation" as such terms are defined in 48 C.F.R. Part 252.227-7014(a)(1) and 48 C.F.R. Part 252.227-7014(a)(5), and used in 48 C.F.R. Part 12.212 and 48 C.F.R. Part 227.7202, as applicable. Consistent with 48 C.F.R. Part 12.212, 48 C.F.R. Part 252.227-7015, 48 C.F.R. Part 227.7202-1 through 227.7202-4, 48 C.F.R. Part 52.227-19, and other relevant sections of the Code of Federal Regulations, as applicable, the Software, Documentation and Updates are distributed and licensed to U.S. Government end users: (i) only as commercial items, and (ii) with only those rights as are granted to all other end users pursuant to the terms and conditions contained herein.
- 9.2 If Licensee is licensing Software for end use by the United States Government or a United States Government agency, Licensee may transfer such Software license, but only if. (i) Licensee transfers all copies of such Software and Documentation to such United States Government entity or interim transferee, and (ii) Licensee has first obtained from the transferee (if applicable) and ultimate end user an enforceable end user license agreement containing restrictions substantially identical to the ones contained in this Agreement. Except as stated in the foregoing, Licensee and any transferee(s) authorized by this subsection 9.2 may not otherwise use or transfer or make available any Contractor software to any third party nor permit any party to do so.

Section 10 CONFIDENTIALITY

Licensee acknowledges that the Software and Documentation contain Contractor's valuable proprietary and Confidential Information and are Contractor's trade secrets, and that the provisions in the Primary Agreement concerning Confidential Information apply.

Section 11 LIMITATION OF LIABILITY

The Limitation of Liability provision is described in the Primary Agreement.

Section 12 NOTICES

Notices are described in the Primary Agreement.

Section 13 GENERAL

- 13.1. COPYRIGHT NOTICES. The existence of a copyright notice on the Software will not be construed as an admission or presumption of publication of the Software or public disclosure of any trade secrets associated with the Software.
- 13.2. COMPLIANCE WITH LAWS. Licensee acknowledges that the Software is subject to the laws and regulations of the United States and Licensee will comply with all applicable laws and regulations, including export laws and regulations of the United States. Licensee will not, without the prior authorization of Contractor and the appropriate governmental authority of the United States, in any form export or re-export, sell or resell, ship or reship, or divert, through direct or indirect means, any item or technical data or direct or indirect products sold or otherwise furnished to any person within any territory for which the United States Government or any of its agencies at the time of the action, requires an export license or other governmental approval. Violation of this provision is a material breach of this Agreement.
- 13.3 FUTURE REGULATORY REQUIREMENTS. The Parties acknowledge and agree that this is an evolving technological area and therefore, laws and regulations regarding Services and use of Solution may change. Changes to existing Services or the Solution required to achieve regulatory compliance may be available for an additional fee. Any required changes may also impact the price for Services.
- 13.4. ASSIGNMENTS AND SUBCONTRACTING. Contractor may assign its rights or subcontract its obligations under this Agreement, or encumber or sell its rights in any Software, without prior notice to or consent of Licensee.
- 13.5. GOVERNING LAW. This Agreement is governed by the laws of the United States to the extent that they apply and otherwise by the internal substantive laws of the State of Florida. The terms of the U.N. Convention on Contracts for the International Sale of Goods do not apply. In the event that the Uniform Computer Information Transaction Act, any version of this Act, or a substantially similar law (collectively "UCITA") becomes applicable to a party's performance under this Agreement, UCITA does not govern any aspect of this Agreement or any license granted under this Agreement, or any of the parties' rights or obligations under this Agreement. The governing law will be that in effect prior to the applicability of UCITA.
- 13.6. THIRD PARTY BENEFICIARIES. This Agreement is entered into solely for the benefit of Contractor and Licensee. No third party has the right to make any claim or assert any right under this Agreement, and no third party is deemed a beneficiary of this Agreement. Notwithstanding the foregoing, any licensor or supplier of third party software included in the Software will be a direct and intended third party beneficiary of this Agreement.
- 13.7. SURVIVAL. Sections 4, 5, 6.4, 7, 8, 9, 10, 11 and 13 survive the termination of this Agreement.
- 13.8. ORDER OF PRECEDENCE. In the event of inconsistencies between this Exhibit and the Primary Agreement, the parties agree that this Exhibit prevails, only with respect to the specific subject matter of this Exhibit, and not the Primary Agreement or any other exhibit as it applies to any other subject matter.
- 13.9. SECURITY. Contractor uses reasonable means in the design and writing of its own Software and the acquisition of third party Software to limit Security Vulnerabilities. While no software can be guaranteed to be free from Security Vulnerabilities, if a Security Vulnerability is discovered, Contractor will take the steps set forth in Section 6 of this Agreement.

Exhibit B

Subscription Software Addendum

This Subscription Software Addendum (this "SSA") is entered into between Motorola Solutions, Inc. ("Contractor") and Miami-Dade County ("County"), and will be subject to, and governed by, the terms of the Agreement No. D-10253 (the "Agreement"). Capitalized terms used in this SSA, but not defined herein, will have the meanings set forth in the Agreement.

- 1. Addendum. This SSA governs County's purchase of Subscription Software (and, if set forth in an Ordering Document, related Services) from Contractor, and will form part of the Parties' Agreement. Additional Subscription Software-specific Addenda or other terms and conditions may apply to certain Subscription Software, where such terms are provided or presented to County.
- 2. Delivery of Subscription Software.
- 2.1. <u>Delivery.</u> During the applicable Subscription Term (as defined below), Contractor will provide to County the Subscription Software set forth in an Ordering Document, in accordance with the terms of the Agreement. Contractor will provide County advance notice (which may be provided electronically) of any planned downtime. Delivery will occur upon County's receipt of credentials required for access to the Subscription Software or upon Contractor otherwise providing access to the Subscription Software. If agreed upon in an Ordering Document, Contractor will also provide Services related to such Subscription Software.
- 2.2. <u>Modifications</u>. In addition to other rights to modify the Products and Services set forth in the Agreement, Contractor may modify the Subscription Software, any associated recurring Services and any related systems so long as their functionality (as described in the applicable Ordering Document) is not materially degraded. Documentation for the Subscription Software may be updated to reflect such modifications. For clarity, new features or enhancements that are added to any Subscription Software may be subject to additional Fees.
- 2.3. <u>User Credentials</u>. If applicable, Contractor will provide County with administrative user credentials for the Subscription Software, and County will ensure such administrative user credentials are accessed and used only by County's employees with training on their proper use. County will protect, and will cause its Authorized Users to protect, the confidentiality and security of all user credentials, including any administrative user credentials, and maintain user credential validity, including by updating passwords. County will be liable for any use of the Subscription Software through such user credential (including through any administrative user credentials), including any changes made to the Subscription Software or issues or user impact arising therefrom. To the extent Contractor provides Services to County in order to help resolve issues resulting from changes made to the Subscription Software through user credentials, including through any administrative user credentials, or issues otherwise created by Authorized Users, such Services will be billed to County on a time and materials basis, and County will pay all invoices in accordance with the payment terms of the Agreement.
- 2.4. <u>Beta Services</u>. If Contractor makes any beta version of a software application ("Beta Service") available to County, County may choose to use such Beta Service at its own discretion, provided, however, that County will use the Beta Service solely for purposes of County's evaluation of such Beta Service, and for no other purpose. County acknowledges and agrees that all Beta Services are offered "as-is" and without any representations or warranties or other commitments or protections from Contractor. Contractor will determine the duration of the evaluation period for any Beta Service, in its sole discretion, and Contractor may discontinue any Beta Service at any time. County acknowledges that Beta Services, by their nature, have not been fully tested and may contain defects or deficiencies.
- 3. Subscription Software License and Restrictions.

- 3.1. <u>Subscription Software License.</u> Subject to County's and its Authorized Users' compliance with the Agreement, including payment terms, Contractor hereby grants County and its Authorized Users a limited, non-transferable, non-sublicenseable, and non-exclusive license to use the Subscription Software identified in an Ordering Document, and the associated Documentation, solely for County's internal business purposes. The foregoing license grant will be limited to use in the territory and to the number of licenses set forth in an Ordering Document (if applicable), and will continue for the applicable Subscription Term. County may access, and use the Subscription Software only in County's owned or controlled facilities, including any authorized mobile sites; provided, however, that Authorized Users using authorized mobile or handheld devices may also log into and access the Subscription Software remotely from any location. No custom development work will be performed under this Addendum.
- 3.2. County Restrictions. Customers and Authorized Users will comply with the applicable Documentation and the copyright laws of the United States and all other relevant jurisdictions (including the copyright laws where County uses the Subscription Software) in connection with their use of the Subscription Software. County will not, and will not allow others including the Authorized Users, to make the Subscription Software available for use by unauthorized third parties, including via a commercial rental or sharing arrangement, reverse engineer, disassemble, or reprogram software used to provide the Subscription Software or any portion thereof to a human-readable form; modify, create derivative works of, or merge the Subscription Software or software used to provide the Subscription Software with other software; copy, reproduce, distribute, lend, or lease the Subscription Software or Documentation for or to any third party; take any action that would cause the Subscription Software, software used to provide the Subscription Software, or Documentation to be placed in the public domain; use the Subscription Software to compete with Contractor; remove, after, or obscure, any copyright or other notice; share user credentials (including among Authorized Users); use the Subscription Software to store or transmit malicious code; or attempt to gain unauthorized access to the Subscription Software or its related systems or networks.

4. Term.

- Subscription Terms. The duration of County's subscription to the first Subscription Software and any 4.1. associated recurring Services ordered under this SSA (or the first Subscription Software or recurring Service, if multiple are ordered at once) will commence upon delivery of such Subscription Software (and recurring Services, if applicable) and will confinue for a twelve (12) month period or such longer period identified in an Ordering Document (the "Initial Subscription Period"). Following the Initial Subscription Period, County's subscription to the Subscription Software and any recurring Services will automatically renew for additional twelve (12) month periods (each, a "Renewal Subscription Year"), unless either Party notifies the other Party of its intent not to renew at least thirty (30) days before the conclusion of the then-current Subscription Term. (The Initial Subscription Period and each Renewal Subscription Year will each be referred to herein as a "Subscription Term".) Contractor may increase Fees prior to any Renewal Subscription Year. In such case, Contractor will notify County of such proposed increase no later than thirty (30) days prior to commencement of such Renewal Subscription Year. Unless otherwise specified in the applicable Ordering Document if County orders any additional Subscription Software or recurring Services under this SSA during an inprocess Subscription Term, the subscription for each new Subscription Software or recurring Service will (a) commence upon delivery of such Subscription Software or recurring Service, and continue until the conclusion of County's thencurrent Subscription Term (a "Partial Subscription Year"), and (b) automatically renew for Renewal Subscription Years thereafter, unless either Party notities the other Party of its intent not to renew at least thirty (30) days before the conclusion of the then-current Subscription Term. Thus, unless otherwise specified in the applicable Ordering Document, the Subscription Terms for all Subscription Software and recurring Services hereunder will be synchronized.
- 4.2. <u>Term.</u> The term of this SSA (the "SSA Term") will commence upon either (a) the Effective Date of the Agreement, if this SSA is attached to the Agreement as of such Effective Date, or (b) the SSA Date set forth on the signature page below, if this SSA is executed after the Agreement Effective Date, and will continue until the expiration or termination of all Subscription Terms under this SSA, unless this SSA or the Agreement is earlier terminated in accordance with the terms of the Agreement

- 4.3. <u>Termination</u>. Notwithstanding the termination provisions of the Agreement, Contractor may terminate this SSA (or any Addendum or Ordering Documents hereunder), or suspend delivery of Subscription Software or Services, immediately upon notice to County if (a) County breaches Section 3 Subscription Software License and Restrictions of this SSA, or any other provision related to Subscription Software license scope or restrictions set forth in an Addendum or Ordering Document, or (b) it determines that County's use of the Subscription Software poses, or may pose, a security or other risk or adverse impact to any Subscription Software, Contractor, Contractor's systems, or any third party (including other Contractor customers). County acknowledges that Contractor made a considerable investment of resources in the development, marketing, and distribution of the Subscription Software and Documentation, and that County's breach of the Agreement will result in irreparable harm to Contractor for which monetary damages would be inadequate. If County breaches this Agreement, in addition to termination, Contractor will be entitled to all available remedies at law or in equity (including immediate injunctive relief).
- 4.4. <u>Wind Down of Subscription Software</u>. In addition to the termination rights in the Agreement, Contractor may terminate any Ordering Document and Subscription Term, in whole or in part, in the event Contractor plans to cease offering the applicable Subscription Software or Service to customers.

5. Payment.

- 5.1. Payment Unless otherwise provided in an Ordering Document (and notwithstanding the provisions of the Agreement), County will prepay an annual subscription Fee set forth in an Ordering Document for each Subscription Software and associated recurring Service, before the commencement of each Subscription Term. For any Partial Subscription Year, the applicable annual subscription Fee will be prorated based on the number of months in the Partial Subscription Year. The annual subscription Fee for Subscription Software and associated recurring Services may include certain one-time Fees, such as start-up fees, license fees, or other fees set forth in an Ordering Document. Contractor will have the right to suspend the Subscription Software and any recurring Services if County fails to make any payments when due.
- 5.2. <u>License True-Up.</u> Contractor will have the right to conduct an audit of total user licenses credentialed by County for any Subscription Software during a Subscription Term, and County will cooperate with such audit. If Contractor determines that County's usage of the Subscription Software during the applicable Subscription Term exceeded the total number of licenses purchased by County, Contractor may invoice County for the additional licenses used by County, pro-rated for each additional license from the date such license was activated, and County will pay such invoice in accordance with the payment terms in the Agreement.

6. Liability.

- 6.1. <u>ADDITIONAL EXCLUSIONS</u>. IN ADDITION TO THE EXCLUSIONS FROM DAMAGES SET FORTH IN THE AGREEMENT, AND NOTWITHSTANDING ANY PROVISION OF THE AGREEMENT TO THE CONTRARY, MOTORCIA WILL HAVE NO LIABILITY FOR (A) INTERRUPTION OR FAILURE OF CONNECTIVITY, VULNERABILITIES, OR SECURITY EVENTS; (B) DISRUPTION OF OR DAMAGE TO CUSTOMER'S OR THIRD PARTIES' SYSTEMS, EQUIPMENT, OR DATA, INCLUDING DENIAL OF ACCESS TO USERS, OR SHUTDOWN OF SYSTEMS CAUSED BY INTRUSION DETECTION SOFTWARE OR HARDWARE; (C) AVAILABILITY OR ACCURACY OF ANY DATA AVAILABLE THROUGH THE SUBSCRIPTION SOFTWARE OR SERVICES, OR INTERPRETATION, USE, OR MISUSE THEREOF; (D) TRACKING AND LOCATION-BASED SERVICES; OR (E) BETA SERVICES.
- 6.2. <u>Voluntary Remedies</u>. Contractor is not obligated to remedy, repair, replace, or refund the purchase price for the disclaimed or excluded issues in the Agreement or Section 6.1 Additional Exclusions above, but if Contractor agrees to provide Services to help resolve such issues, County will reimburse Contractor for its reasonable time and expenses, including by paying Contractor any Fees set forth in an Ordering Document for such Services, if applicable.
- 7. Contractor as a Controller or Joint Controller. In all instances where Contractor acts as a controller of data, it will comply with the applicable provisions of the Contractor Privacy Statement at

https://www.motorolasolutions.com/en_us/about/privacy-policy.html#privacystatement,
as may be updated from time to time. Contractor holds all County Contact Data as a controller and shall Process such County Contact Data in accordance with the Contractor Privacy Statement. In instances where Contractor is acting as a joint controller with County, the Parties will enter into a separate Addendum to the Agreement to allocate the respective roles as joint controllers.

8. Survival. The following provisions will survive the expiration or termination of this SSA for any reason: Section 4 – Term; Section 5 – Payment; Section 6.1 – Additional Exclusions; Section 8 – Survival.

Exhibit C

FirstNet and AT&T Service Terms

Public Safety Entity ("Customer") Responsibilities for access to and use of "First Net" Service as provided by

General. The Customer is responsible for complying with AT&T Acceptable Use Policy found at att.com/aup and applicable AT&T Service Guides found at att.com/servicepublications.

Privacy. The Customer is responsible for complying with all applicable privacy laws. The Customer is responsible for obtaining consent from and giving notice to its Users regarding Motorota's and AT&T's collection and use of User information in connection with a Service. The Customer will only make accessible or provide Personal Data to Motorola and AT&T when it has the legal authority to do so.

User Eligibility. The Customer shall verify, or assist Motorola and AT&T in verifying, as stated below, the eligibility of its Users to use the Service. The Customer is required to verify and confirm that its Users are authorized and eligible to use Service. The Customer must perform periodic audits on a regular, but not less than once per year, basis to identify any individuals who are no longer eligible for Service. The Customer must produce such information as may be requested through AT&T by the FirstNet Authority and the United States Government to verify eligibility of its users.

Limitations on the Service. THE CUSTOMER ACKNOWLEDGES THAT SERVICE IS MADE AVAILABLE ONLY WITHIN THE OPERATING RANGE OF THE NETWORKS. SERVICE MAY BE TEMPORARILY REFUSED, INTERRUPTED, OR LIMITED BECAUSE OF: (A) FACILITIES LIMITATIONS; (B) TRANSMISSION LIMITATIONS CAUSED BY ATMOSPHERIC, TERRAIN, OTHER NATURAL OR ARTIFICIAL CONDITIONS ADVERSELY AFFECTING TRANSMISSION, WEAK BATTERIES, SYSTEM OVERCAPACITY, MOVEMENT OUTSIDE A SERVICE AREA OR GAPS IN COVERAGE IN A SERVICE AREA AND OTHER CAUSES REASONABLY OUTSIDE OF MOTOROLA OR ATAT'S CONTROL SUCH AS, BUT NOT LIMITED TO, INTENTIONAL OR NEGLIGENT ACTS OF THIRD PARTIES THAT DAMAGE OR IMPAIR THE NETWORK OR DISRUPT SERVICE; OR (C) EQUIPMENT MODIFICATIONS, UPGRADES, RELOCATIONS, REPAIRS, AND OTHER SIMILAR ACTIVITIES NECESSARY FOR THE PROPER OR IMPROVED OPERATION OF SERVICE.

Limitations on Service of Carrier Partners. CARRIER PARTNER NETWORKS ARE MADE AVAILABLE AS-IS AND MOTOROLA AND AT&T MAKES NO WARRANTIES OR REPRESENTATIONS AS TO THE AVAILABILITY OR QUALITY OF ROAMING SERVICE PROVIDED BY CARRIER PARTNERS, AND MOTOROLA AND AT&T WILL NOT BE LIABLE IN ANY CAPACITY FOR ANY ERRORS, OUTAGES, OR FAILURES OF CARRIER PARTNER NETWORKS. ROAMING ON CARRIER PARTNER NETWORKS OUTSIDE THE FIRSTNET SERVICE AREA (IF ANY) SHALL BE AVAILABLE AS DESCRIBIED IN THE SERVICE GUIDE.

User Disolosures. THE CUSTOMER UNDERSTANDS AND AGREES THAT IT: (1) HAS NO CONTRACTUAL RELATIONSHIP WITH THE UNDERLYING WIRELESS SERVICE CARRIER; (2) IS NOT A THIRD PARTY BENEFICIARY OF ANY AGREEMENT BETWEEN [CUSTOMER] AND THE UNDERLYING CARRIER; (3) THAT THE UNDERLYING CARRIER HAS NO LIABILITY OF ANY KIND TO [USER], WHETHER FOR BREACH OF CONTRACT, WARRANTY, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE; AND (4) THAT DATA TRANSMISSIONS AND MESSAGES MAY BE DELAYED, DELETED OR NOT DELIVERED, AND 911 OR SIMILAR EMERGENCY CALLS MAY NOT BE COMPLETED

Medical Devices (FDA and HIPAA Responsibilities). The Customer shall be responsible for FDA compliance as a "distributor" of the Device to its users. Except as necessary to provide the Service to the Customer, The Customer shall not convey any protected health information ('PHI') to AT&T, as that term is defined in the Health Insurance Portability and Accountability Act ('HIPAC') and the Health Information Technology for Economic and Clinical Health ('HITECH') Act regulations. Motorola and/or AT&T shall not function as the Customer's business associate in rendering the Services; such Services will be limited to providing conduit or mere data transmission services to the Customer in accordance with guidance on the "conduit exception" under HIPAA. Each Party shall bear its own costs associated with regulatory compliance.

Audits. Customer may be subject to occasional audits by AT&T or its agents to verify compliance with this Addendum.

Exhibit D Addendum to County Agreement for Transport Connectivity

This Addendum for Transport Connectivity (this "TCA") is entered into between Contractor Solutions Connectivity, Inc., with offices at 500 W Monroe St, Ste 4400, Chicago, IL 60661 ("Contractor"), a wholly owned subsidiary of Contractor Solutions, Inc. ("MSI"), and Miami-Dade County ("County"), and will be subject to, and governed by, the terms of the Agreement No. D-10253 (the "Agreement"), and the applicable Addenda. Capitalized terms used in this TCA, but not defined herein, will have the meanings set forth in the Agreement or the applicable Addenda.

- 1. Addendum. This TCA governs County's purchase of certain transport connectivity, as further described below (generally referred to as the "Connectivity"), and constitutes an agreement solely entirely between Contractor and County. Contractor and County shall only be liable to each other for the obligations expressly set forth in this TCA. In no event will MSI be liable for any of Contractor's obligations or liabilities pursuant to this TCA. In addition to the Agreement, other Addenda may be applicable to other Products or Services, with respect to Software and Equipment, as each of those terms is defined therein, and as further described below, if any. This TCA will control with respect to conflicting terms in the Agreement or any other applicable Addendum, but only as applicable to the Connectivity purchased under this TCA and not with respect to other Products or Services.
- 2. Connectivity Service Description and Applicable Terms and Conditions.
 - 2.1. Connectivity Service Description. Connectivity means the physical connection (i.e. the physical copper, fiber, wireless transport technology(ies) or other transmission medium used) that is designed for the transmission of information including data between locations, devices, equipment and/or facilities designated for County, as set forth in the applicable Statement of Work ("SOW") between the parties, which may be located on County premises, mobile, and/or in remote Contractor or MSI procured data centers or cloud-based locations. If a generic demarcation point (such as a street address) is provided, the demarcation point will be Contractor's Minimum Point of Entry (MPOE) at such location (as determined by Contractor and/or its vendors). Additional wiring may be provided by MSI, at its sole discretion, and may entail electrical or optical cabling into 1) existing or new conduit or 2) bare placement in drop down ceitings, raised floors, or mounted to walls/ceitings. Any additional wiring or necessary transmission media will be provided and/or maintained by MSI as specifically described in the accompanying SOW. Contractor will maintain Connectivity to the demarcation point only. County disclaims any interest in any equipment, property or licenses used by Contractor to provide Connectivity. Terms for interest in additional wiring and maintenance of additional wiring will be as delineated in an applicable SOW.
 - 2.2. Types of Connectivity Technologies. Contractor uses different technologies to provide Connectivity. Some technologies or speeds may not be available in all areas or with certain types of Connectivity. Unless otherwise set forth in the Agreement or applicable SOW, Contractor utilizes different technologies to provide Connectivity at its sole discretion and may include, but not be limited to ethernet, wavelength, special access, and/or wireless technologies (again, including but not limited to LTE or equivalent wireless services or wireless satellite services). In addition, Connectivity may include additional technologies for security or commonality of protocol, including but not limited to Multiprotocol Label Switching ("MPLS") and Software Defined Wide Area Network ("SD-WAN").
- Requests for Connectivity, Third Party Providers and Statements of Work. County will request Connectivity
 as provided for in the applicable SOW(s). Contractor will notify County of acceptance of a request for
 Connectivity by delivering (in writing or electronically) a confirmation, or by delivering the Connectivity.

- 3.1. Third Party Providers of Connectivity. County understands and agrees that Connectivity is provided to Contractor by third parties, and then may be combined with certain Contractor and/or MSI equipment, as requested by County and agreed in an applicable SOW. Contractor does not build or provision Connectivity itself, it solely procures underlying services to provide Connectivity from third parties.
 - 3.1.1. Provision of Connectivity is subject to availability of underlying Connectivity from Contractor's applicable vendor. Provisioning intervals for Connectivity are dependent upon the intervals provided to Contractor by the underlying third party provider. County agrees that Contractor may request, but is not responsible for, certain provisioning intervals as requested by County in a SOW.
 - 3.1.2. County further agrees that Contractor does not offer any specific service level agreements, service level objectives, outage credits or other guarantees regarding outages or reliability of services (collectively, "SLAs") procured and included as part of Connectivity from third party providers. Any SLAs available to County will be separately identified and provided by MSI under the Agreement and any applicable SOW. No other SLAs will be provided or are available from Contractor, unless specifically delineated herein.
 - 3.1.3. Certain requirements of Contractor's third party providers may apply to the provision of Connectivity and are included as Exhibit A to this TCA.
- 3.2. Statement of Work. Contractor and MSI will provide a Statement of Work ("SOW") to further describe implementation of Connectivity and the use of the provided Connectivity with additional services and/or equipment provided by MSI. An applicable SOW may contain SLAs with respect to other services provided by MSI outside of Connectivity or in conjunction with Connectivity. However, County and Contractor agree that such SLAs do not apply directly to Connectivity in and of itself provided by Contractor.
- 4. Provisioning, Maintenance and Repair. Contractor may re-provision Connectivity from one third party provider to another and such changes will be treated as scheduled maintenance. Scheduled maintenance will not normally result in Connectivity interruption. If scheduled maintenance requires Connectivity interruption Contractor will: (1) provide County seven days' prior written notice, (2) work with County to minimize interruptions and (3) use commercially reasonable efforts to perform such maintenance between midnight and 6:00 a.m. local time. County may request a technician dispatch for Connectivity problems, for which Contractor will use commercially reasonable efforts to obtain applicable service from third party providers, if applicable. Contractor may assess a dispatch fee if costs for such services are invoiced to Contractor.
- 5. Termination. Should any Connectivity be terminated under the provisions of the Agreement, County agrees that it will reimburse Contractor for any termination charges levied against Contractor by any third party providers of individual components of Connectivity. Contractor will invoice such charges through its standard billing processes and such amounts will be paid pursuant to the provisions of the Agreement.
- 6. County Information. County agrees that Contractor may use, access and disclose County's information including customer data and network information within its own and its affiliates' business operations, and with third party vendors acting on Contractor's behalf for provision of the Connectivity.
- 7. Network Monitoring. Transmissions passing through the facilities of Contractor's vendors may be subject to legal intercept and monitoring activities by its vendors (or vendors' suppliers) or local authorities in accordance with applicable local law requirements. To the extent consent or notification is required by County or end users under applicable data protection or other laws, County grants its consent under and represents that it will have at all relevant times the necessary consents from all end users.

- 8. Transmission Service Priority. Certain service priority(les), including restoration, may be available to County for an additional fee from Contractor's third party provider of Connectivity. If County elects to implement an available service priority for Connectivity, then County is required to expressly set forth its priority election within the applicable SOW, cooperate fully with Contractor and Contractor's third party provider of Connectivity to effectuate and maintain implementation, and pay any additional fees, costs, or surcharges applicable to the elected priority service.
- 9. Billing and Payment. Contractor will issue invoices to County for the provision of Connectivity to County, which may include but not limited to charges billed by third party providers and all taxes fees, surcharges or other charges imposed by such third party providers. County will pay invoices from Contractor for the Connectivity covered by this TCA in accordance with the invoice payment terms set forth in the Agreement Fees for Connectivity will be invoiced as of the provisioning date, as determined by Contractor, unless another payment schedule or milestones are set forth in the Agreement or applicable SOW. Contractor may, at its sole discretion, utilize MSI as its billing and collection agent and County expressly agrees that invoices for Contractor services may appear on invoices issued by MSI.
- 10. Taxes and Regulatory Cost Recovery Fees. Unless otherwise specified, prices for Connectivity do not include any excise, sales, lease, use, property, or other taxes, assessments, duties or governmental impositions including regulatory charges or contribution requirements when Contractor is required to collect such regulatory charges or contributions from County (collectively, "Taxes"), or any fees or charges to offset costs Contractor incurs to comply with regulations or participate in regulatory programs, including but not limited to regulatory fees or charges imposed on Contractor by governmental entities or collected from Contractor by third parties, which are not Taxes or charges that government mandates be recovered from County but that Contractor is permitted to recover from County either in aggregate or as individual line items ("Regulatory Cost Recovery Fees"). Such Taxes and Regulatory Cost Recovery Fees will be paid by County, except as exempt by law, unless otherwise specified in a SOW. If Contractor is required to pay any Taxes or permitted to recover any Regulatory Cost Recovery Fees, County will be billed by Contractor for such Taxes (including any interest and penalties) or Regulatory Cost Recovery Fees, whether as part of its standard billings or as separately billed and, with respect to the latter, using a "regulatory cost recovery" descriptor or other applicable descriptor, and County agrees that it will pay such Taxes and Regulatory Cost Recovery Fees within thirty (30) days after County's receipt of an invoice therefore, unless County furnishes Contractor applicable tax-exemption certificates. Contractor will be solely responsible for reporting Taxes on its income and net worth.

Annex A

FEDERAL BUREAU OF INVESTIGATION CRIMINAL JUSTICE INFORMATION SERVICES SECURITY ADDENDUM

The goal of this document is to augment the CJIS Security Policy to ensure adequate security is provided for criminal justice systems while (1) under the control or management of a private entity or (2) connectivity to FBI CJIS Systems has been provided to a private entity (contractor). Adequate security is defined in Office of Management and Budget Circular A-130 as "security commensurate with the risk and magnitude of harm resulting from the loss, misuse, or unauthorized access to or modification of information."

The intent of this Security Addendum is to require that the Contractor maintain a security program consistent with federal and state laws, regulations, and standards (including the CJIS Security Policy in effect when the contract is executed), as well as with policies and standards established by the Criminal Justice Information Services (CJIS) Advisory Policy Board (APB).

This Security Addendum identifies the duties and responsibilities with respect to the installation and maintenance of adequate internal controls within the contractual relationship so that the security and integrity of the FBI's information resources are not compromised. The security program shall include consideration of personnel security, site security, system security, and data security, and technical security.

The provisions of this Security Addendum apply to all personnel, systems, networks and support facilities supporting and/or acting on behalf of the government agency.

- 1.00 Definitions
- 1.01 Contracting Government Agency (CGA) the government agency, whether a Criminal Justice Agency or a Noncriminal Justice Agency, which enters into an agreement with a private contractor subject to this Security Addendum.
- 1.02 Contractor a private business, organization or individual which has entered into an agreement for the administration of criminal justice with a Criminal Justice Agency or a Noncriminal Justice Agency.
- 2.00 Responsibilities of the Contracting Government Agency.
- 2.01 The CGA will ensure that each Contractor employee receives a copy of the Security Addendum and the CJIS Security Policy and executes an acknowledgment of such receipt and the contents of the Security Addendum. The signed acknowledgments shall remain in the possession of the CGA and available for audit purposes. The acknowledgement may be signed by hand or via digital signature (see glossary for definition of digital signature).
- 3.00 Responsibilities of the Contractor.
- 3.01 The Contractor will maintain a security program consistent with federal and state laws, regulations, and standards (including the CJIS Security Policy in effect when the contract is executed and all subsequent versions), as well as with policies and standards established by the Criminal Justice Information Services (CJIS) Advisory Policy Board (APB).
- 4.00 Security Violations.

- 4.01 The CGA must report security violations to the CJIS Systems Officer (CSO) and the Director, FBI, along with indications of actions taken by the CGA and Contractor.
- 4.02 Security violations can justify termination of the appended agreement.
- 4.03 Upon notification, the FBI reserves the right to:
 - a. Investigate or decline to investigate any report of unauthorized use;
 - b. Suspend or terminate access and services, including telecommunications links. The FBI will provide the CSO with timely written notice of the suspension. Access and services will be reinstated only after satisfactory assurances have been provided to the FBI by the CGA and Contractor. Upon termination, the Contractor's records containing CIRI must be deleted or returned to the CGA.
- 5.00 Audit
- 5.01 The FBI is authorized to perform a final audit of the Contractor's systems after termination of the Security Addendum.
- 6.00 Scope and Authority
- 6.01 This Security Addendum does not confer, grant, or authorize any rights, privileges, or obligations on any persons other than the Contractor, CGA, CJA (where applicable), CSA, and FBI.
- 6.02 The following documents are incorporated by reference and made part of this agreement: (1) the Security Addendum; (2) the NCIC 2000 Operating Manual; (3) the CJIS Security Policy; and (4) Title 28, Code of Federal Regulations, Part 20. The parties are also subject to applicable federal and state laws and regulations.
- 6.03 The terms set forth in this document do not constitute the sole understanding by and between the parties hereto; rather they augment the provisions of the CJIS Security Policy to provide a minimum basis for the security of the system and contained information and it is understood that there may be terms and conditions of the appended Agreement which impose more stringent requirements upon the Contractor.
- 6.04 This Security Addendum may only be modified by the FBI, and may not be modified by the parties to the appended Agreement without the consent of the FBI.
- 6.05 All notices and correspondence shall be forwarded by First Class mail to:

Assistant Director

Criminal Justice Information Services Division, FBI 1000 Custer Hollow Road

Clarksburg, West Virginia 26306

Annex B

FEDERAL BUREAU OF INVESTIGATION CRIMINAL JUSTICE INFORMATION SERVICES SECURITY ADDENDUM

CERTIFICATION

I hereby certify that I am familiar with the contents of (1) the Security Addendum, including its legal authority and purpose; (2) the NCIC Operating Manual; (3) the CJIS Security Policy; and (4) Title 28, Code of Federal Regulations, Part 20, and agree to be bound by their provisions.

I recognize that criminal history record information and related data, by its very nature, is sensitive and has potential for great harm if misused. I acknowledge that access to criminal history record information and related data is therefore limited to the purpose(s) for which a government agency has entered into the contract incorporating this Security Addendum. I understand that misuse of the system by, among other things: accessing it without authorization; accessing it by exceeding authorization; accessing it for an improper purpose; using, disseminating or re-disseminating information received as a result of this contract for a purpose other than that envisioned by the contract, may subject me to administrative and criminal penalties. I understand that accessing the system for an appropriate purpose and then using, disseminating or re-disseminating the information received for another purpose other than execution of the contract also constitutes misuse. I further understand that the occurrence of misuse does not depend upon whether or not I receive additional compensation for such authorized activity. Such exposure for misuse includes, but is not limited to, suspension or loss of employment and prosecution for state and federal crimes.

Printed Name/Signature of Contractor Employee

Danivel Science Date

Danivel Science Date

Danivel Science Date

O7/07/2022

Printed Name/Signature of Contractor Representative

Date

Motord 2 Solution S. Zuc. Towitony Vice President

Organization and Title of Contractor Representative

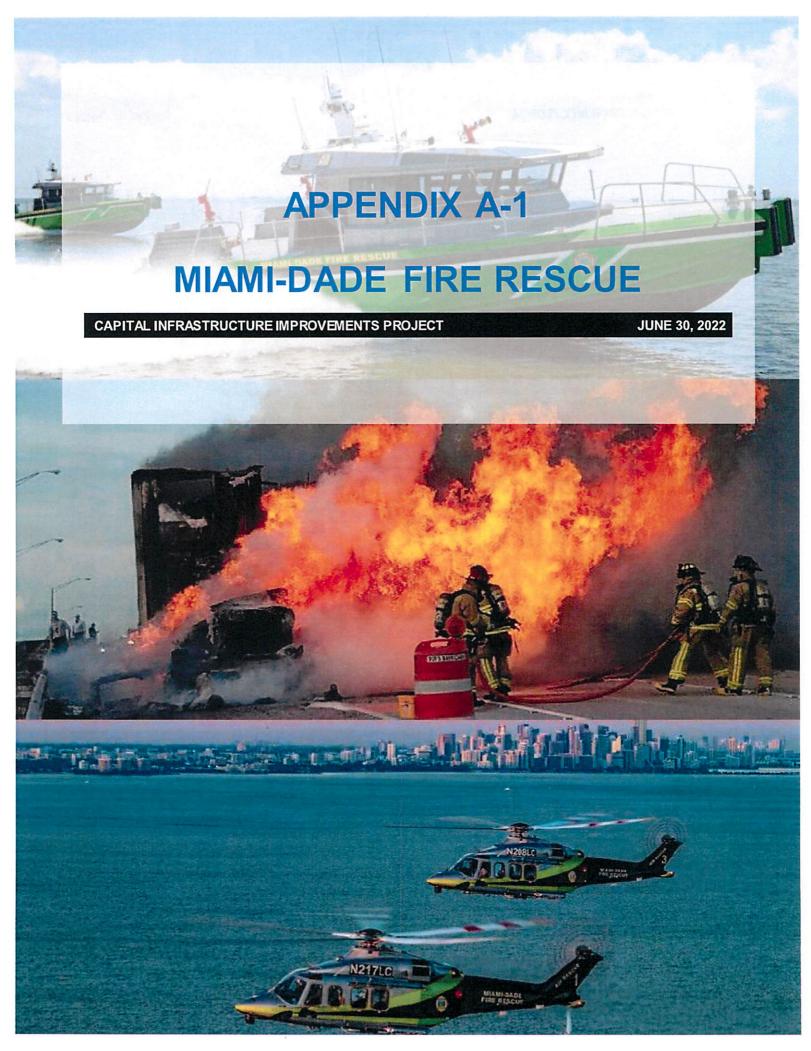


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SECTION 1

EXECUTIVE SUMMARY

Motorola Solutions, Inc. (Motorola Solutions or Motorola) shall provide Miami-Dade County (County or MDFR) with the identified hardware and services for the fixed price and subject to the terms and conditions as set forth herein.

While the existing network is performing reliably, the products and services to be provided by Motorola Solutions shall improve redundancy as well as upgrade current equipment to keep the system operating for future uses. The products and services provided shall also improve resiliency for the system to maintain communications during intense weather events such as hurricanes.

In addition to other products and services Motorola Solutions shall provide new radio sites and additional microwave links in different parts of the County as set forth herein to add coverage to improve coverage for the current Miami-Dade Fire Rescue UHF Public Safety radio system.

Motorola Solutions shall also provide a planned approach to integrate MDFR's Land Mobile Radio and FirstNet in a technically feasible and cost-effective manner and shall improve interoperability with neighboring cities and counties.

The Next Generation APXNEXT Extreme Environment (XE) Portable Fire Radios provided herein shall utilize LTE and SmartRadio technology to improve Fire Fighter safety and provide situational awareness through Location Tracking and Mapping of Users, sending of Messaging & Multi-Media between users and enhancing Voice Communications over LTE Cellular. Additionally, leveraging LTE for programming of radios enhances operational efficiency for the Department.

SECTION 2

SYSTEM DESCRIPTION

2.1 UHF FIRE RADIO SYSTEM

2.1.1 System Overview

Motorola Solutions shall provide a capital infrastructure improvement plan to address the coverage concerns in Miami-Dade County as well as address the existing infrastructure components. All construction performed by Motorola Solutions shall be performed in accordance with Florida law including, but not limited to, the provisions of Florida Statutes, Section 255.05, as applicable.

Motorola Solutions shall provide MDFR six (6) new UHF ASTRO 25 Transmit Radio sites with GTR 8000 Base Radios to add to the existing UHF system. The site add-ons to the MDFR radio system shall provide MDFR with high-quality, effective two-way radio communications.

Site Name	Number of Channels
Aventura Hospital (AVTH)	6 Channels
Fire Station 18 (FS 18)	6 Channels
Fire Station 71 (FS 71) / Eureka	5 Channels
Fire Station 72 (FS 72) / Florida City	5 Channels
PortMiami (PORT)	9 Channels
Homestead Air Reserve Base	6 Channels

Table 2-1: MDFR UHF Fire Radio System new sites.

In addition to the six (6) new UHF Transmit sites, Motorola Solutions shall provide the following additional improvements to the existing forty-nine (49) UHF Radio sites:

- Equipment Shelters.
- Uninterruptible Power Supply (UPS) Replacements.
- 48v DC Back-up Power Supply Upgrades.
- New Generators and Additional Fuel Storage.
- HVAC Replacements.
- Microwave Expansion for Radio Site Connectivity.
- Antenna Replacements.
- West Channel Coverage Expansion.

Table 2-2 below matrix provides a summary of what is being upgraded at each existing UHF Radio Site and includes what is going into each of the six (6) new UHF Radio Sites:

Table 2-2: MDFR CIIP matrix.

Sites	Tower	Transmit Equipment	Equipment Shelter	SdN	48v DC	Generator	HVAC	Microwave	Additional Fuel Storage	Antennas	Vislink	West Channel
ACDY							ħ,					
AQU				•						•	•	
Aventura		•			•			•		•		
вмн				•								•
CAB										•		
CGFS3										•		•
CT										•		
EWT										•		
FHP				•						•		•
FIU				•						•		
FS 04										•		•
FS 09			•		•	•	•		•	•		
FS 18	•	•	•		•	•	•		•	•		
FS 36					•		•		•	•		
FS 37				•			•		•	•		
FS 51			•									
FS 54					•	•			•	•		
FS 55										•		•
FS 68				•			•			•		
FS 69										•		
FS 71	•	•	•		•	•	•	•	•	•		
FS 72	•	•	•		•	•	•	•	•	•		
FS 75								•				
HARB		•		•		•		•		•		
HH			•		•					•		
HPD				•						•		
HRT				•						•		•
HMS					•						•	
HWT				•						•		•
IC				•				•		•		

Sites	Tower	Transmit Equipment	Equipment Shelter	UPS	48v DC	Generator	HVAC	Microwave	Additional Fuel Storage	Antennas	Vislink	West Channel
		Trar	Eq						4			
INT				•	4-15		11111			•	and the	
JMH	ar i									•	•	
JRS	al a						1 10					
K&B			•		•	•	•	•	•	•		
KEY				•						17. 1	4	•
MDY				•			•		•	•		
MET				•						•	•	•
MIA										•		
MICC				•				•		•	•	
OKEE												
OPF												
PFPL				•						•		•
PGH				•						•	•	
PortMiami		•	•		•		•			•	ii.	
PRYD				•						•		
PSN				•					-	•		
PT				•			•			•		
PVP				1						•		
RNAS				•						•		
ROB								•				
SDGC				•						•	•	•
SW					•	•	•		•	•		
T41				•					-	•		
TCC										•		
TG					•	•		•	•	•	-11	
TGK					•		•			•		

2.1.2 ASTRO 25 RF Component Descriptions

Motorola Solutions shall provide all necessary components to meet the system design which shall include, at a minimum, the site equipment components, per site, as described in this section.

Aventura Hospital:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Six (6) GTR 8000 Base Radios & Simulcast Site Reference.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- RX Antenna System added to Emergency Room area.
- One (1) SDM3000 RTU.
- Six (6) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48v DC Plant.

Fire Station 18:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Six (6) GTR 8000 Base Radios & Simulcast Site Reference.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression,
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Six (6) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Generator.
- 199-foot Self-Supporting Tower.

Fire Station 71 (Eureka):

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios & Simulcast Site Reference.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.

- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Generator.
- 199-foot Self-Supporting Tower.

Fire Station 72 (Florida City):

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios & Simulcast Site Reference.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Generator.
- 199-foot Self-Supporting Tower.

PortMiami:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Nine (9) GTR 8000 Base Radios & Simulcast Site Reference.
- Four (4) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression,
- One (1) RX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression,
- One (1) SDM3000 RTU.
- Nine (9) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Fiber Backhaul provided by MDFR.
- 48 VDC Plant.
- New Communications Shelter.

Homestead Air Reserve Base:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios & Simulcast Site Reference.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge & Suppression
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, & Surge Suppression
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- UPS.

2.1.2.1 MOSCAD MATRIX

Motorola Solutions shall provide alarms that will be enabled for the new UHF Radio Sites as shown in the below matrix in Figure 2-1

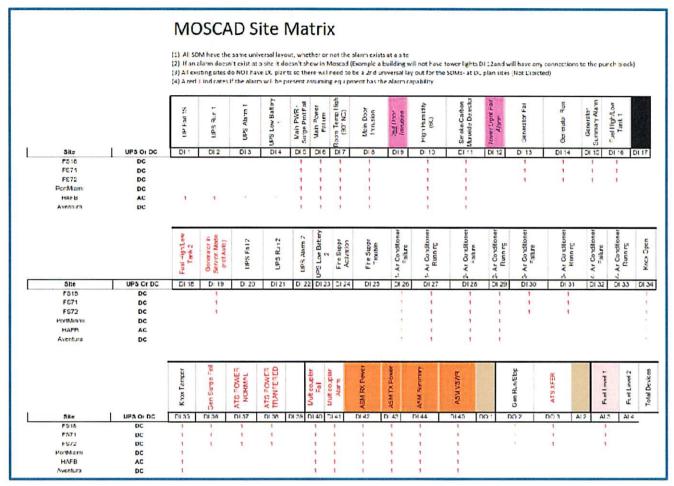


Figure 2-1: MOSCAD Alarm matrix for new sites.

The Nokia 7705 SAR-8 is comprised of the components shown in Table 2-3.

Table 2-3: Nokia 7705 SAR-8 components.

Component	Model
Chassis	SAR-8 V2
Redundant control switch modules	CSM-V2
Six 10/100 RJ45 ports and two GigE SFP ports	A8-ethv2
Fan Module for SAR-8 shelf V2 Ext. Temp (-48VDC)	FAN

The new sites are equipped with "Layout 1" shown below in Figure 2-2.



Figure 2-2: Nokia 7705 SAR-8

The connection between the Microwave/Carrier and 7705 SAR-8 will be GigE and use a fiber optic cable. The mode of the fiber optic will be determined by the interface of the provider. This connection will be rate limited (matching the available bandwidth) to ensure the Microwave/Carrier buffer is not overwhelmed.

Fiber Mode **Connection Type Physical Media Rate Limit** Port ID Microwave (Ring) SFP Module SM 10Km 75Mbps 1/1/4 - CW 1/2/4 - CCW SFP Module 1/1/[3-4] Microwave (Spur) SM 10Km TBD 1/2/[3-4] ASE Circuit1 SFP Module SM 10Km TBD 1/5/1 LTE Circuit1 SFP Module (RJ45) **TBD** 1/5/2 MetroNet1 SFP Module SM 10Km **TBD** 1/5/3 Carrier Circuit1 SFP Module SM 10Km **TBD** 1/5/4 Other SFP Module **TBD TBD** 1/5/[5-6] ASM SFP Module RJ45 TBD 1/5/7 MDFR 10.18 SFP Module RJ45 TBD 1/5/8

Table 2-4: Various connection types.

The SFP modules will be populated as per direction of MDFR at the time of order.

The system will monitor the functionality of the antenna systems at each of the following sites in Table 2-5 below.

Site Name

1 Aventura Hospital

2 Fire Station 18

3 Fire Station 71 (Eureka)

4 Fire Station 72 (Florida City)

5 PortMiami

6 Homestead Air Reserve Base

Table 2-5: Antenna System Monitoring Sites

2.1.2.2 DC Power Plant

Motorola Solutions shall install a DC power plant at sites as set forth herein.

- The Trilogy-S has eight (8) rectifier positions and is rated at 300 amps using a 2000W/40A rectifier.
- Each pair of rectifiers will be fed from a 30A, 2-pole circuit breaker, from a 208/240VAC source.
- There are 20 load breaker positions, rated to 100A / position.
- The Smartpack-S controller manages all monitoring and control of the battery plant.
- The 6RU Trilogy system is mounted in a 23" x7' two post relay rack, equipped with battery racks to hold the 48V battery strings.
- Where necessary, a second 23" x7' rack is used to house additional battery strings.
 - Sites have from 2 5 battery strings.
 - The Enersys SBS-XL battery product is used.
 - VRLA battery technology.
 - ♦ 20-year Design Life battery comprised of 12-volt battery packs.
 - ◆ Each 48V string (4 batteries) takes 8 RU in the power rack (or expansion rack where needed).

2.1.2.3 Antennas

Motorola Solutions shall replace antennas at identified existing radio system sites and will equip those sites with Alive Metal Dipole Antennas (ATC-GD4V8O) for the UHF Frequency Band. Sites that have been identified to change to the metal dipole antennas shall be provided heavier duty, multi-point mounting hardware for top and bottom mounting on towers and other sites where possible. New sites shall also be equipped with the Alive Metal Dipole Antennas (ATC-GD4V8O). When Motorola Solutions and the County mutually agree that sites will not permit Alive Metal Dipole antennas, Motorola Solutions shall install, as an alternative, RFI Fiberglass antennas.

2.2 CIIP MICROWAVE

2.2.1 System Summary

With the addition of new RF sites to the UHF Radio System, Motorola Solutions shall also provide new microwave paths for connectivity at the new sites as well as improved connectivity and system redundancy for the existing sites. A total of 8 new individual paths are shown in the topology below. The K&B to FS71 to TG is replacing a core tri-channel link from K&B to TG in the OC3/MPLS ring. The TG to MIC hop is proposed as a single MPLS channel (OC3 not included). Each microwave hop is designed as 30 MHz/128QAM with a link capacity of 155Mbps. The design includes, four (4) 6 GHz MHSB, two (2) 6 GHz MHSB/SD and one (1) 11 GHz MHSB hops with the traffic being all Ethernet. Each site will be evaluated on a case-by-case basis to determine if there is enough room to utilize existing racks wherever possible. In cases where there is not enough existing rack space, those sites will get a new equipment rack. Any sites that require a new rack will be included as part of the project. There will be no additional charge to MDFR. Each site will be provisioned with new IRU600v4 microwave radio, INUe with supporting modem cards (RAC 70 card or XPIC equivalent), Ethemet cards (DAC GE3) with local open port, and AUX cards modules as well as antennas, waveguide, dehydrators, batteries, and chargers for the microwave equipment. Motorola Solutions and Aviat

shall make a best effort to avoid reducing power on existing paths to accommodate the proposed new paths, however, the actual transmit power is a function of the coordination process performed by Comsearch.

2.2.1.1 Microwave Path Calculations

Preliminary Path Loss and Fade Margin Calculations are provided as part of the documentation for the Microwave links. The Vigants 1975 reliability models have been used. The paths, individually, meet or exceed 99.999% annual 2-way reliability with RX threshold of BER=10-6 with a flat fade margin of at least 40dB. However, after post PCN (Prior Coordination Notice) all paths must meet their individual path objectives +/- 2dB assuming no external interference. The path calculations are based on the data provided and radio guaranteed specifications.

The paths have been designed utilizing UXA6-U57AC and UXA4-U57AC (Ultra-High-Performance Dual-Polarization Antennas). Deploying Dual-Polarization antennas allows flexibility to deploy both vertical and horizontally polarized channels based on the results of frequency coordination and offers excellent sidelobe suppression to help mitigate interference. The UXA6 series of antennas offers high XPD (Cross Polarization Discrimination) of 40 dB and with the high wind kit can support windspeeds up to 155 mph. Additionally, all mounts must have stiff-armed on the inner and outer rings. Preliminary Path Profiles are generated using "National Elevation Dataset (NED) 10m" Terrain Database and "National Land Cover Database (NLCD)", provided for reference. 98ft high trees assumed for evergreen forest /area. New antenna centerlines are derived based on the path clearance criteria: a) 100%F1@ K=1.33 b) F1@ k=0.4 for main path, and 60%F1 @ K=1.33 for diversity path where applicable. Please refer to the preliminary Path Calculations and Profiles for details.

The design and implementation of each microwave hop to meet performance objectives, typically specified as "X-9's availability". As an example, a hop designed to achieve 99.9990% availability (5-9's) will average 315 seconds (or less) of downtime per year over a ~10 year period. A hop designed to achieve 99.9991% availability will average 284 seconds (or less) of downtime per year over a ~10-year period. The current MDFR availability requirement per hop is 99.999%. This is the default standard availability for public safety microwave hops. Increasing availability typically requires introduction of larger parabolic antennas.

Field path surveys are performed to ensure the microwave path does not have obstructions or other geographic attributes that might compromise the quality of the RF transmission. With a field path survey completed, we will know if our initial design will meet the required performance objective, barring any unknown interference.

It is common for Motorola Solution's modeling (post field path survey) to predict performance/availability slightly higher than the contractually required value. Microwave transmission is not an exact science. With constantly evolving real-world conditions, any additionally predicted availability is viewed as insurance that the hop will perform very well for many years to come.

The paths are designed making every effort to achieve 40dB fade margin. Achieving this is dependent upon the frequency coordination and licensing as well as there being no known/unknown external interference cases. Non-XPIC hops will still be designed to achieve 5 9's availability. Due to frequency congestion, we may be forced to use XPIC on some number of new hops which may or may not impact the XPIC path reliability.

If an existing tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system shall be negotiated as an amendment to this Agreement between Motorola Solutions and the County. The system design and associated RF frequency plan as proposed is preliminary, subject to path survey verification, frequency coordination / FCC licensing and final path engineering results.

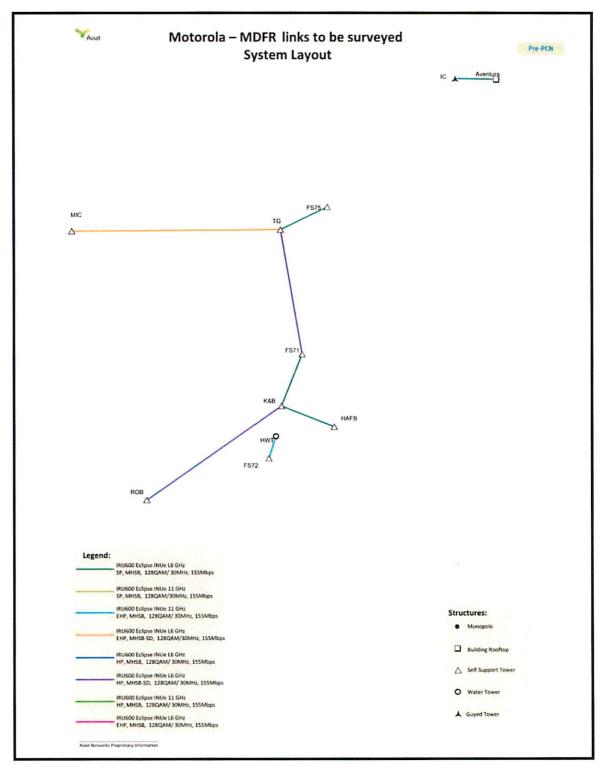


Figure 2-3: New Microwave Paths

2.3 TOWERS FOR FS18, FS71 & FS72

The antennas, microwave dishes and other associated equipment for the new UHF transmit sites at Fire Stations 18, 71 and 72 will be 199-foot Self-supporting Lattice Towers which shall have a crown at the top like the tower design and FS75 and shall be designed, at a minimum, to support the below equipment mounted on the tower.

DESIGNED APPURTENANCE LOADING			
TYPE	ELEVATION	TYPE	ELEVATION
Beacon	199	(2) 2" x 96" Sch. 40	180
Beacon	199	SP1 VFA12-HD	180
Beacon Extender (6" x 336" Sch. 40)	199	SP1 VFA12-HD	180
Beacon Extender (6" x 336" Sch. 40)	199	SP1 VFA12-HD	180
21' LRE with 7'-6" lightning rod (arm=11.5')	199	SP1 R5 (Includes 4.5"x72" Pipe)	155
BMR12	199	2-1/2" x 7' Sch. 40	155
BMR12	199	UHX8-U57AC	155
Alive Telecommunications ATC-GD4V8O	199	SP1 R5 (Includes 4.5"x72" Pipe)	150
Alive Telecommunications	199	2-1/2" x 7' Sch. 40	150
ATC-GP1V4CD7		UHX8-U57AC	150
TTA (12"x12"x8")	199	SP1 R5 (Includes 4.5"x72" Pipe)	120
TTA (12"x12"x8")	199	SP1 R5 (Includes 4.5"x72" Pipe)	120
13' Pirod LP Platform	199	2-1/2" x 10' Sch. 40	120
(2) 2" x 96" Sch. 40	199	2-1/2" x 10' Sch. 40	120
(2) 2" x 96" Sch. 40	199	UXA6-W57AC	120
(2) 2" x 96" Sch. 40	199	UXA6-W57AC	120
Alive Telecommunications ATC-GD4V8O	180	SP1 VFA12-HD	110
Alive Telecommunications ATC-GD4V8O	180	(4) PANEL (8' X 1' X 4")	110
Alive Telecommunications ATC-GD4V8O	180	(4) 2" x 96" Sch. 40	110
Alive Telecommunications ATC-GP1V4CD7	180	SP1 VFA12-HD	110
BMR12	180	(4) PANEL (8' X 1' X 4")	110
BMR12	180	(4) PANEL (8' X 1' X 4")	110
(2) 2" x 96" Sch. 40	180	(4) 2" x 96" Sch. 40	110
(2) 2 x 96 Sch. 40 (2) 2" x 96" Sch. 40	180	(4) 2" x 96" Sch. 40	110

Figure 2-4: Tower designed appurtenance loading table.

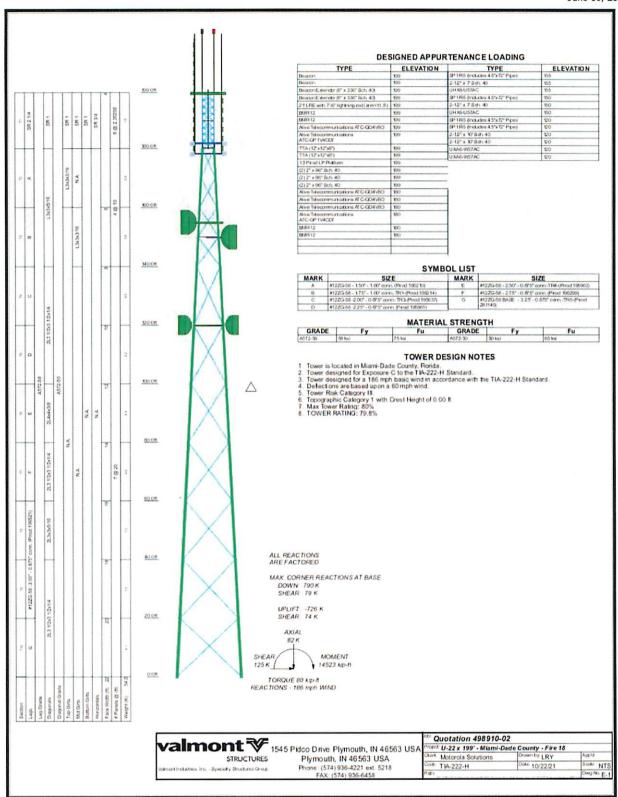


Figure 2-20: Valmont 199-foot Tower

2.4 PORTMIAMI SHELTER

A PEPRO Shelter shall be provided by Motorola Solutions for the PortMiami site to house the site equipment. The shelter will be situated on the top of the Parking Garage across from the Royal Caribbean offices.

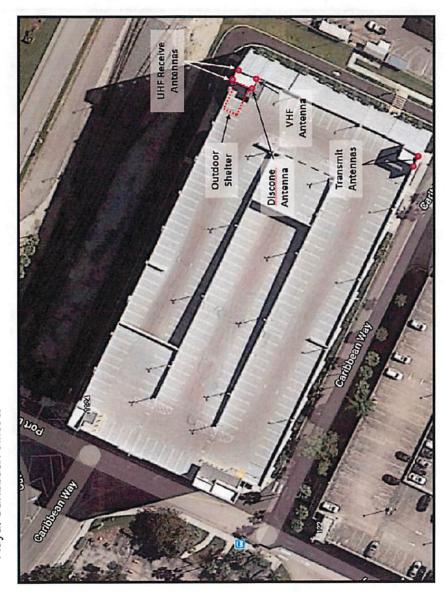


Figure 2-5: Arial view of Port parking garage

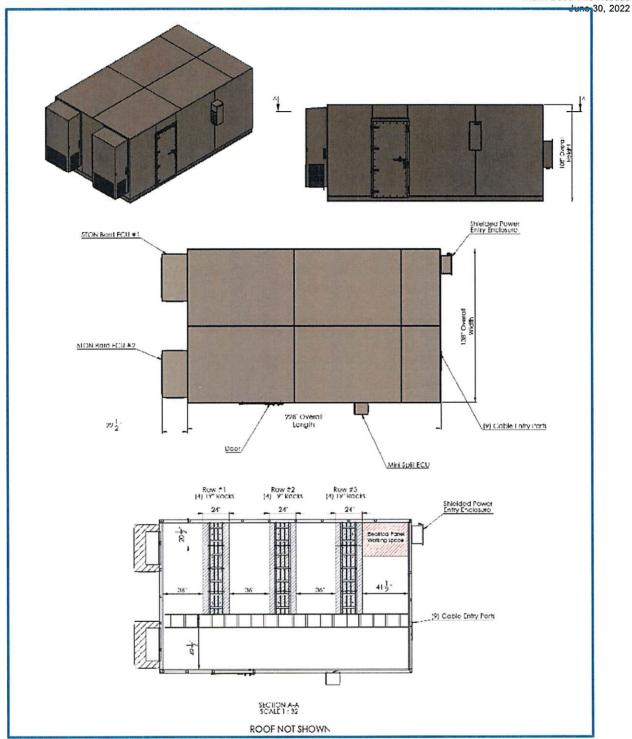


Figure 2-6: PEPRO Shelter renderings and drawing

```
Endosure Wgt:
                                                   TED
Codes
                                                   ASCE 7-16
IBC 2018
                                                    NEC 2020
A. Protection
Shelter
All FEPRO shelturs feature our Faraday Cage Technology. This product is covered under parants #5,749,178 - #7,046,621 - #7 385,147
      Technical Specificational Independent Laboratory-Tested Protection Levels
RPT 70dD rating from 20MHz to 3.26 GHz
EM: 40dB Magnetic Field
Lightning. 1,300,000 Votts 60,000 Amps Orect strike on endosure with less than 1 micro-joule porestration trialos
B. Uni-Body Aluminum Enclosure

Moleria!

- Wall, Root, & Floor Sheathing

- Wall & Roof Studs:

- Floor Suppons.

3/16" Numinum 5052

3/2/0 25 Aluminum Tube-6001

C8x4 48 Aluminum Channel-6091
Specifications
- Roal Loading
- Floor Loading:
                                                200 ps/
C. Finish
Exterior
- All outside outnoos - UV resistant Primer & Point
trional
- Wats & Calling:
- Floor.
- Trim:
                                     1/16° FRP Paneling
1/2° Intertocking Rubber Met
L1x1x0.08 Aluminum Angle
Irmulaton
- Wats & Ceiling.
                                        R-20 Foll faced Foam Board Insulation
D. Door & Openings
Door
- 36" x 80" - 3/16" Aluminum- iiti52, R-13 Insulation, Adjustable and Lockable Bar Lock
Cable Entry
- [9] 3 1/2" Cable Entry Ports that in PEPRO Shielding Cable Entry Glands and/or PEPRO Telecom Entry Box
       Shielded Gland:
- [6] Cable Entry Glands
 E. Electrical
 Power Service

- MU-80 shelided Power Entry Enclosure w* (4) 200Amp Filters
Load Center - 200 Amp 42 Space, 3 Phase 208/120VAC
 Surge Suppression:
-(1) Raycap Surge Blox R-55 Surge Suppressor
 Alternate Pover
 Transfer Switch
 Receptucies:

- [4] 120VAC Duplex Receptacies

- [10] 238VAC Outlets
Lighting
- [8] 120VAC LED Interior lights
Smoke Detector
 P. Heating/Ventilation
         - (2) 5-TON Bard ECU unita
- (1) Lead Ling Cortroller
- (1) Mini Split ECU unit
H. Grounding
- PEPRO's Faraday Cago design
```

Figure 2-7: PEPRO Shelter specs

2.5 APX NEXT RADIO EQUIPMENT & SMART SERVICES

2.5.1 Smart Radio Equipment

Motorola Solutions shall provide the Motorola APX NEXT XE Fire Portables, APX 8500 Mobiles, APX Consolettes, Sierra Wireless XR80 Routers and accessories listed in section 6.1.

2.6 SMART APPLICATION SERVICES

The following Smart Services are included for APX NEXT Portables:

- SmartLocate with CommandCentral Aware
- SmartMapping
- SmartProgramming
- SmartMessaging
- SmartConnect

CommandCentral Aware is also compatible with Microsoft Active Directory and Active Directory File System (ADFS).

The retention period for location data in CommandCentral Aware mapping is configurable via the CommandCentral Admin tool. CommandCentral Aware can be configured to store up to 12 weeks of location data or can be configured not to store any data at all. The retention time is configurable and can also be set to 9 weeks to match what MDPD Police currently uses on its AVL System. The CommandCentral Aware historic map can be exported into a KMZ file for use in GoogleEarth. There is no limit to the amount of data stored nor is there a charge for the retrieval of data.

2.6.1 Secondary SmartConnect Fallback

In addition to having SmartConnect to extend coverage with the Fire UHF Radio System, Motorola shall host a set of backup channels in the SmartConnect cloud for MDFR. This will provide a fallback set of channels that MDFR could revert to in the event that the Motorola ASTRO Core at MDFR Headquarters is not available. In the event this were to happen, this would enable MDFR to revert to a secondary set of SmartConnect channels and maintain communications.

2.6.2 SmartLocate with CommandCentral Aware

CommandCentral Aware is also compatible with Microsoft Active Directory.

The retention period for location data in CommandCentral Aware mapping is configurable via the CommandCentral Admin tool. CommandCentral Aware can be configured to store up to 12 weeks of location data or can be configured not to store any data at all. The retention time is configurable and can also be set to 9 weeks to match what Miami-Dade Fire Rescue currently uses on its AVL System. The CommandCentral Aware historic map can be exported into a KMZ file for use in GoogleEarth. There is no limit to the amount of data stored nor is there a charge for the retrieval of data.

SmartMessaging retention period can be configured in increments of weeks to a maximum of 12 weeks. There is no limit to the amount of data stored nor is there a charge for the retrieval of data.

2.6.3 APX NEXT CAD Interface

The APX NEXT CAD Interface is a vendor agnostic CAD interface for APX NEXT to bring in real-time message to the APX NEXT platform including but not limited to:

- Providing Incident Information such as incident number, location, hazards, nature of call, incident updates and associated multi-media.
- Bi-directional communications which allow the officer to provide updates to the dispatcher such as status updates and emergency notifications.
- Notification to the dispatcher when the Emergency Button is activated.
- Personnel level tracking to CAD, with configurable location updates (dynamic location updates).

The APX NEXT CAD Interface functionality detailed above shall be available per Section 2.6.6. Motorola shall provide either an API or an SDK to Miami-Dade allowing Miami-Dade to share with any CAD vendor for integration with APX NEXT portables. The API document or SDK shall be made available to the agency either via a pdf document or with the SDK placed in escrow. As Motorola develops the solution for the APX NEXT CAD Interface, Miami-Dade shall be included in discussions to help validate the solution.

Motorola Solutions acknowledges that MDFR requires the capability to interoperate between Motorola PremierOne CAD (utilized by MDPD) and its future CAD and CAD Data Exchange Hub (DEH). The CAD to CAD Interface & DEH interface solutions will allow integration between Miami-Dade Police Department and the selected CAD for MDFR. The DEH interface will allow additional agencies to interface these CAD solutions, regardless of vendor. This bidirectional exchange of information will provide first responders with the ability to share information and data in a reliable and secure manner to save lives, preserve property, and ensure that proper communications systems and processes are available on demand to support organized emergency response. Motorola Solutions shall provide these interfaces, at the request of the County for an additional payment of \$100,000 each.

2.6.4 Home Channel Functionality & Control Lock

Home Channel Functionality

Motorola Solutions acknowledges that MDFR requires the capability to configure the APX NEXT with the "Home Channel" function to be able to remove the Home Channel soft button on the touchscreen display in the programming software due to users frequently hitting the soft Home Channel button and inadvertently changing channels. MDFR also requires the ability to assign the radio's purple side button to be the shortcut to the "Home Channel" button and have the channel locked via the programming software so that it cannot be changed by an end-user. Motorola shall provide this functionality as set forth in Section 2.6.6.

Control Lock Capability

Motorola Solutions acknowledges that MDFR requires the ability to lock all buttons and switches including the side buttons with the A/B/C switch. Motorola Solutions represents and warrants that this functionality is available in the APX NEXT R04.22.00 Software Release which will be provided to the County as set forth in Section 2.6.6.

2.6.5 CommandCentral Device Login Feature

Motorola Solutions acknowledges that MDFR requires the ability to remotely log in/out the APX NEXT devices into CommandCentral without the need for end-users to enter an email username and password and prevent the end-users from having the ability to log in/out from the radio. Motorola Solutions represents and warrants that these features will be provided to the County as set forth in Section 2.6.6.

2.6.6 Future Feature Availability

- Home Channel Functionality & Control Lock available in 2023
- APX NEXT CAD Interface available in 2024
- CommandCentral Device Login Feature available in 2024

2.6.7 Parts & Support

Motorola Solutions shall support APX NEXT with the necessary parts, accessories, and firmware updates (with security updates as necessary) for a period of 5 years after product cancellation to maintain the UL Rated* Ensemble (Radio / Battery / Antenna / Speaker Mic).

*UL to non-incendive standards: UL 121201 and CAN/CSA C22.2 No. 213-17 as safe for use in Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F,G; Class III Hazardous Locations) for the life of the product.

2.6.8 APX NEXT Firmware / Security Updates

APX NEXT utilizes TLS v1.2 for all Network Layer connections. Data is encrypted with FIPS 140-2 validated cryptography. Motorola continually evaluates the latest standards in data security with respect to cloud data services and upgrades our solution as appropriate.

2.7 DEVICE EQUIPMENT LISTS

2.7.1 Hand-Held / Portables

APX NEXT XE Portables	Qty.
All-Band Portable APX NEXT XE Portable (7/800 / UHF / VHF)	1360
P25 Trunking Phase 1 / Phase 2	1360
Radio Authentication	1360
AES / DES Encryption	1360
Over-the-Air Rekeying (OTAR)	1360
ViQi Voice Control	1360
SmartConnect (Yr. 1)	1360
SmartLocate (Yr. 1)	1360
SmartMapping (Yr. 1)	1360
Smart Messaging (Yr. 1)	1360
SmartProgramming (Yr. 1)	1360
High-Capacity UL Div. 2 Battery (5650 mAh)	1360
Antenna	1360
Spare High-Capacity UL Div. 2 Battery (5650 mAh)	1360
XVE500 Remote Speaker Mic	1360
APX NEXT IMPRES Single Unit Charger	400
APX to APX NEXT Multi-Unit Charger Conversion Kits (6 APX NEXT Inserts / Kit)	25
APX NEXT IMPRES Multi-Unit Charger	175
*Included Future Features *:	
Multi-System Over-the-Air Rekeying (OTAR)	
Optional Future Smart Services requiring annual subscription:	-
Future APX NEXT CAD Interface Smart Service	

^{*} Future feature availability per Section 2.6.6.

2.7.2 Multi-Band Mobiles

APX8500 Mobiles	Qty.
All-Band Mobile (7/800 / UHF / VHF)	130
P25 Trunking Phase 1 / Phase 2	130
Radio Authentication	130
AES / DES Encryption	130
Over-the-Air Rekeying (OTAR)	130
Multi-System OTAR	130
SmartProgramming (Yr. 1)	130
SmartConnect (Yr. 1)	130
No Control Head	130
Multi-Band Antenna	130

2.7.3 Single-Band Mobiles

APX8500 Mobiles	Qty.
All-Band Mobile (UHF)	60
P25 Trunking Phase 1 / Phase 2	60
SmartProgramming (Yr. 1)	60
SmartConnect (Yr. 1)	60
Remote Mount Control Head	60
Multi-Band Antenna	60

2.7.4 Multi-Band Dual Control Head Mobiles

APX8500 Mobiles	Qty.
All-Band Mobile (7/800 / UHF / VHF)	8
P25 Trunking Phase 1 / Phase 2	8
Radio Authentication	8
AES / DES Encryption	8
Over-the-Air Rekeying (OTAR)	8
Multi-System OTAR	8
SmartProgramming (Yr. 1)	8
SmartConnect (Yr. 1)	8
Dual Control Head Configuration	8
Multi-Band Antenna	8

2.7.5 Mobile Upgrades

Existing APX8500 Hardware & Software Upgrades	Qty.
Ethernet Faceplate Conversion Kits / LTE Modem Wired Connection	200
SmartConnect & Encryption Upgrades	200
AES Encryption / Multi-System OTAR	200
SmartConnect/Wi-Fi/Data Modem Tethering	200

2.7.6 XR80 Vehicular Routers

Sierra Wireless XR80	Qty.
Sierra Wireless XR80 DC & WiFi	198
10-in-1 Antenna (4X5G/LTE, GNSS, 5XWiFi 2.4/5GHz, Bolt Mount, 5m, Black)	198
Airlink Complete Management & Support - 5 Years	198
Client License for Gateway	198
5 Year Annual Maintenance & Support ACM Client	198

 $^{^{\}star}$ MDFR $\,$ will be providing SIM $\,$ cards / cellular service for any LTE routers/modems.

SECTION 3

SERVICE PACKAGE STATEMENT OF WORK

As it relates to this Service Package Statement of Work (SOW), Motorola Solutions shall provide all services identified as Motorola Solutions Responsibilities. At the discretion of MDFR, MDFR Responsibilities can be fulfilled by assigned Motorola Solutions technicians.

3.1.1 Hardware Repair

3.1.1.1 Motorola Solutions Responsibilities

- Repair or replace malfunctioning device. Motorola Solutions shall determine whether a malfunctioning device shall be repaired or replaced.
- Complete repair or replacement with a turnaround time of five business days in-house, provided the device is delivered to the repair center by 9:00 a.m. (local repair center time). Turnaround time represents the time a product spends in the repair process, and does not include time in transit to and from MDFR's site. Business days do not include US holidays or weekends.
- If applicable, apply periodically-released device updates, in accordance with an Engineering Change Notice.
- Provide two-way air shipping when a supported Motorola Solutions electronic system, such as MyView Portal, is used to initiate a repair. A shipping label will be generated via the electronic system.

3.1.1.2 County Responsibilities

- Initiate device repairs, as needed.
 - When initiating a repair via a supported Motorola Solutions electronic system, label each package correctly with the shipping label and Return Material Authorization ("RMA") number generated by the electronic system.
 - When initiating a repair via paper Return Material Form ("RMF"), the RMF must be completed for each device, included in the package with the device, and shipped to the Motorola Solutions depot specified on the RMF.
- Remove any data or other information from the device that MDFR wishes to destroy or retain prior to sending the device for repair.
- If a malfunctioning device must be replaced and MDFR has loaded information for that
 device to Motorola Solutions' cloud environment, MDFR will need to remove the information
 for the malfunctioning device and add information for the replacement device to the
 applicable cloud environment.

3.1.1.3 Limitations and Exclusions

MDFR will incur additional charges at the prevailing rates for any activities that are not included or are specifically excluded from this service scope, as described below. Motorola Solutions will

notify MDFR and provide a quotation of any incremental charges related to such exclusions prior to completing the repair and said repair will be subject to MDFR's acceptance of the quotation.

- Replacement of consumable parts or accessories, as defined by product, including but not limited to batteries, cables, and carrying cases.
- · Repair of problems caused by:
 - Natural or manmade disasters, including but not limited to internal or external damage resulting from fire, theft, and floods.
 - Third-party software, accessories, or peripherals not approved in writing by Motorola Solutions for use with the device.
 - Using the device outside of the product's operational and environmental specifications, including improper handling, carelessness, or reckless use.
 - Unauthorized alterations or attempted repair, or repair by a third party.
- Non-remedial work, including but not limited to administration and operator procedures, reprogramming, and operator or user training.
- Problem determination and/or work performed to repair or resolve issues with non-covered products. For example, any hardware or software products not specifically listed on the service order form are excluded from service.
- File backup or restoration.
- Completion and test of incomplete application programming or system integration if not performed by Motorola Solutions and specifically listed as covered.
- Accidental damage, chemical or liquid damage, or other damage caused outside of normal device operating specifications, except if optional Accidental Damage Coverage was purchased.
- Cosmetic imperfections that do not affect the functionality of the device.
- Software support for unauthorized modifications or other misuse of the device software is not covered.
- Motorola Solutions is not obligated to provide support for any device that has been subject to the following:
 - Repaired, tampered with, altered or modified (including the unauthorized installation of any software) — except by Motorola Solutions authorized service personnel.
 - Subjected to unusual physical or electrical stress, abuse, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable product specification.
 - If the MDFR fails to comply with the obligations contained in the Agreement, the applicable software license agreement, and Motorola Solutions terms and conditions of service.

3.1.1.4 Accidental Damage

Motorola Solutions shall provide Accidental Damage repair coverage for internal and external device components damaged due to accidents or that do not work in accordance with published specifications. Repair services are performed at a Motorola Solutions-operated or supervised facility. Accidental Damage coverage must be purchased together with, or within 90 days of, a qualifying Motorola Solutions hardware purchase. This offer reduces unexpected expenses relating to the repair of the device.

Accidental Damage coverage includes all Hardware Repair services, and expands coverage to include Accidental Damage. Examples of items included under Accidental Damage Coverage are:

- Electrical repair for components that are not working in accordance with published specifications
- Electrical repair for failures caused by accidental water damage.
- Electrical repair for accidental internal damage.
- Replacement of accidentally cracked or broken housings.
- Replacement of accidentally cracked or broken displays.
- Replacement of accidentally cracked or broken or missing keypads/buttons.

For malfunctioning devices that must be replaced, Motorola Solutions will attempt to read the codeplugs from those devices. If successful, Motorola Solutions will load the codeplug to any replacement devices. If not, Motorola Solutions will load a factory codeplug, and MDFR will need to load the previous codeplug.

Motorola Solutions will load factory available firmware to any replacement devices, which may not match MDFR's firmware version. MDFR may need to downgrade the firmware on the replacement device.

3.1.1.4.1 Added Motorola Solutions Responsibilities for Accidental Damage

 Repair or replace accidentally damaged device. Motorola Solutions shall determine whether an accidentally damaged device shall be repaired or replaced.

3.1.1.4.2 Limitations and Exclusions

In addition to applicable Limitations and Exclusions for Hardware Repair, Accidental Damage limits or excludes the following:

- There is a limit of one device repair per device/per contract year with Accidental Damage coverage. This exclusion does not apply to repairs to malfunctioning components. Motorola Solutions will repair malfunctioning components covered by the standard Hardware Repair service as needed.
- Where ongoing "accidental damage" is reasonably deemed by Motorola Solutions to be
 excessive, systemic or the result of device mishandling, MDFR may be subject to an
 additional charge. Should the accidental damage continue unabated, MDFR will incur repair
 charges at Motorola Solutions' reasonable discretion and prevailing charges for devices
 reasonably deemed by Motorola Solutions to have been damaged through improper
 handling, carelessness, or reckless use.
- Accidental Damage is quoted on a per-unit basis, is prepaid, non-cancellable, and non-refundable for the purchased service term.

3.1.2 Device Technical Support

Motorola Solutions shall provide Device Technical Support service which provides telephone consultation for device and accessory issues. Support is delivered through the Motorola Solutions Centralized Managed Support Operations ("CMSO") organization by a staff of technical support specialists.

For Device Technical Support, Motorola Solutions will respond to calls within two (2) hours during the support days. Support hours are 7 a.m. to 7 p.m. CST Monday through Friday, excluding US holidays. In addition, MDFR may contact the Call Management Center (800-MSI-HELP) at any time (24 hours a day, seven days a week) and a Motorola Solutions representative will log a technical request in Motorola Solutions Case Management System on the MDFR's behalf.

3.1.2.1 Motorola Solutions Responsibilities

- Provide technical support for devices, assessing and troubleshooting reported issues.
- Receive and log MDFR support requests, and assign a technical representative to respond to an incident per the defined timeframes.

3.1.2.2 MDFR Responsibilities

- Use the provided methods to contact Motorola Solutions technical support.
- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDFR issues.
- Provide contact information for field service technicians in the event that Motorola Solutions has to follow up.

3.1.2.3 Limitations and Exclusions

 Device support does not include Land Mobile Radio ("LMR") network, Wi-Fi, and LTE network troubleshooting.

3.1.3 Software Maintenance

Motorola Solutions is continually developing new features and functionality for our portfolio of public-safety-grade radios. Motorola Solutions shall provide the County with software maintenance, which includes firmware releases and "future-proof" of products and services purchased herein.

3.1.3.1 Motorola Solutions Responsibilities

- Test all firmware releases to minimize software defects.
- Announce new firmware releases and post release notes in a timely manner via MyView Portal.
- Provide firmware updates via the RadioCentral cloud server. Motorola Solutions makes no guarantees as to the frequency or timing of firmware updates.
- Provide upgrade capability through RadioCentral.
- Provide programming and service tools and technical support through the firmware support window.
- Provide documentation via MyView Portal with each release detailing new features, bug fixes, and any known issues.

3.1.3.2 MDFR Responsibilities

- Periodically check MyView Portal for firmware update announcements.
- Request updated firmware versions for the radio fleet within the support window.

3.1.4 RadioCentral Access

Motorola Solutions shall provide the County with Radio Central access to provide radio provisioning and programming capability with the convenience and security delivered by cloud hosting. Device information will be loaded into the Motorola Solutions-hosted database directly from the factory, and MDFR can use their own computer equipment to configure codeplugs before the device arrives. Software updates and device configuration changes can be set up

from anywhere with an Internet connection and pushed out through Wi-Fi or LTE (SmartProgramming) to keep devices up to date and officers in the field.

With DMS Advanced, MDFR can use RadioCentral's batching capabilities for efficient programming and easy fleet management.

Outside of pre-announced maintenance periods, RadioCentral will be available on a best effort 24/7 basis. Broadband network and cloud performance may reduce availability.

3.1.4.1 Motorola Solutions Responsibilities

- Host the RadioCentral server software in a secure cloud environment.
- Keep the RadioCentral server software up-to-date with all software and security patches.
- Keep the RadioCentral database backed up and restore backups, as needed.
- Populate the RadioCentral database with device serial numbers, model information, feature information, and default codeplugs.
- Provide access information (login information, IP addresses, and port numbers as needed), as well as current RadioCentral Client software downloads via MyView Portal.
- Ensure that RadioCentral is accessible to Wi-Fi and LTE connected devices.
- Provide a link between RadioCentral and MyView Portal.
- Monitor the status of the Radio Central cloud platform.
- Notify MDFR via Remedy of any scheduled maintenance or other planned outages.
- Notify MDFR through Remedy and MyView Portal of any unplanned outages.
- Provide authorized administrator access to RadioCentral via a third-party identity management system.

3.1.4.2 MDFR Responsibilities

- Provide contact information, including email addresses, for the RadioCentral administrator.
- Provide contact information, including email addresses, for the radio provisioning agency or agencies.
- Administer provisioning agency RadioCentral accounts.
- Provide a Wi-Fi network with Internet access for device programming.
- Provide and maintain the required RadioCentral client computer(s).
- Provide internet access for the RadioCentral client computer.
- Maintain the configuration database.
- Program devices using RadioCentral as needed.

3.1.4.3 Limitations and Exclusions

 RadioCentral programming is limited to LTE and Wi-Fi programming only. Over-the-air programming (via the LMR system) and Bluetooth programming are not supported.

3.1.5 RadioCentral Technical Support

For RadioCentral Technical Support, Motorola Solutions shall respond to calls within two (2) hours during the support days. Support hours are 7 a.m. to 7 p.m. CST Monday through Friday, excluding US holidays. In addition, MDFR may contact the Call Management Center (800-MSI-HELP) at any time (24 hours a day, seven days a week) and a Motorola Solutions representative shall log a technical request in Motorola Solutions Case Management System on the MDFR's behalf.

3.1.5.1 Motorola Solutions Responsibilities

- Monitor the status of the Radio Central cloud platform.
- Notify MDFR of any scheduled maintenance or planned outages.
- Provide technical support, security control, and service improvements related to RadioCentral. MDFR Data may be accessed by Motorola Solutions employees residing outside of the MDFR's country for the sole purpose of providing such support.

3.1.5.2 MDFR Responsibilities

- Use the provided methods to contact Motorola Solutions technical support.
- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDFR issues.
- Provide contact information for on-site technicians in the event that Motorola Solutions has to follow up.

3.1.5.3 Limitations and Exclusions

- Initial fleetmap template creation or consultation required to assemble a fleetmap strategy is excluded.
- Motorola Solutions Technical Support will not accept radio programming assistance calls. Support is limited to the correction of defects with the RadioCentral programming tool.

3.1.6 MyView Portal Access

Motorola Solutions shall provide MyView Portal access which provides tracking for the status of subscriptions and service contracts, including start and end dates. MyView Portal displays the serial number, configuration, and firmware versions of all the APX NEXT devices in MDFR's fleet. This portal includes order, RMA, and technical support ticket status, as well as a consolidated download site for software and documentation.

MDFR can also access fleet level reports, charts, and graphs that make it easy to spot fleet level trends and trends over time, improving the fleet management experience.

Outside of pre-announced maintenance periods, MyView Portal will be available on a best effort 24/7 basis. Motorola Solutions cannot guarantee the availability of Internet networks outside of our control.

3.1.6.1 Motorola Solutions Responsibilities

- Provide a web accessible, secure portal to view MDFR's data.
- Provide MDFR with login credentials for the site.
- Provide end-user training for the site.
- Provide technical support to answer end user questions between the hours of 8 a.m. to 5 p.m. CST Monday through Friday, excluding US holidays.
- Keep the site updated with the latest information.
- Establish and maintain connectivity between RadioCentral and MyView Portal.

3.1.6.2 MDFR Responsibilities

- Provide Motorola Solutions with contact information for administrative users.
- Administer user access.
- Provide Internet access for users to access the site.

- Attend available MyView Portal training.
- Protect login information against unauthorized use.
- Provide Motorola Solutions with updated equipment information, as needed.

3.1.7 Device Management Training

Motorola Solutions shall also provide Device Management Training consisting of detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop. Motorola will provide in-person / on-site training for the initial deployment. Motorola will also provide online training in perpetuity, available to as many Miami-Dade personnel as needed.

The instructor-led workshop can be delivered in three different ways:

- Virtually via web conferencing (1 seat).
- In person at a Motorola Solutions facility (1 seat).
- In person at MDFR's site (up to 12 seats).

3.1.7.1 Motorola Solutions Responsibilities

- Provide access to the online training class.
- Provide training material for class.
- Provide an instructor to lead the training workshop.

3.1.7.2 MDFR Responsibilities

- Provide PC and Internet connection to take the online training class.
- If MDFR training occurs at a Motorola Solutions facility, cover expenses for students to travel to a Motorola Solutions facility.

3.1.8 DMS Priority Levels

For RadioCentral cloud-based elements, the following Priority Levels and response times apply. Initial Technical Response is defined as acknowledgement to MDFR that an incident has occurred.

Description	Initial Technical Response Time
Critical P1	
 Product or Software defect which gives rise to: Greater than 25% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. Functional failures affecting more than 50% of devices. 	1 hour 24/7
High P2	
Product or Software defect which gives rise to: Greater than 5% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. Functional failures affecting more than 15% of devices.	4 hours 24/7
Medium P3	
Product or Software defect which gives rise to: Between 1-5% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. Functional failures affecting LESS than 15% of devices.	24 hours 8 x 5 business hours
Low P4	
Items include: Documentation questions. General informational questions. Other Investigations not marked as a higher priority level.	7 business days

For issues deemed to be Critical P1, High P2, and Medium P3, MDFR will need to ensure contact is made with Motorola Solutions personnel via telephone. Communication via email, SMS or any web chat applications shall not be accepted as proof of notification given the delayed and non-guaranteed nature of the mode of communications. All emailed requests will be treated as Medium P3 incidents. The above Response Goals shall not be applicable during the occurrence of a Force Majeure event (e.g. acts of God, including earthquakes and floods).

3.2 STATEMENT OF WORK FOR DEVICE MANAGEMENT SERVICES – ESSENTIAL

3.2.1 Overview

Motorola Solutions shall provide Device Management Services - Essential ("DMS Essential") for APX™ subscriber radios with Subscriber Radio Technical Support and Hardware Repair services to the County.

As it relates to this Device Management Services - Essential Statement of Work, Motorola Solutions shall provide all services identified as Motorola Solutions Responsibilities. At the discretion of MDFR, MDFR Responsibilities can be fulfilled by assigned Motorola Solutions technicians.

3.2.2 Hardware Repair

3.2.2.1 Scope

Motorola Solutions shall provide Hardware Repair consisting of repair coverage for internal and external subscriber radio components that do not work in accordance with published specifications Repair services are performed at a Motorola Solutions-operated or supervised facility. The subscriber radio will be repaired to bring it to compliance with its specifications, as published by Motorola Solutions at the time of delivery of the original subscriber radio.

3.2.2.2 Motorola Solutions Responsibilities

- Repair or replace malfunctioning device. Motorola Solutions shall determine whether a malfunctioning device shall be repaired or replaced.
- Complete repair or replacement with a turnaround time of four business days in-house, provided the device is delivered to the repair center by 9:00 a.m. (local repair center time). Turnaround time represents the time a product spends in the repair process, and does not include time in transit to and from MDFR's site. Business days do not include US holidays or weekends.
- If applicable, apply periodically-released device updates, in accordance with an Engineering Change Notice.
- Provide two-way air shipping when a supported Motorola Solutions electronic system, such as MyView Portal, is used to initiate a repair. A shipping label will be generated via the electronic system.

3.2.2.3 Limitations and Exclusions

- Replacement of consumable parts or accessories, as defined by product, including batteries, cables, antennas, and carrying cases.
- In the case of mobile radios, repair of a single mobile control head that is required for normal operation of the subscriber radio is included, provided the control head was supplied at the original point of purchase of the mobile radio.
- · Repair of problems caused by:
 - Internal or external damage resulting from natural or manmade disasters, including fire, theft, and floods.

- Third-party software, accessories, or peripherals not approved in writing by Motorola Solutions for use with the device.
- Using the device outside of the product's operational and environmental specifications, including improper handling, carelessness, or reckless use.
- Unauthorized alterations, attempted repair, repair by a third party.
- Non-remedial work, including administration and operator procedures, reprogramming, and operator or user training.
- Problem determination and/or work performed to repair or resolve issues with non-covered products. For example, hardware or software products not specifically listed on the service order form are excluded from service.
- Cosmetic imperfections that do not affect the functionality of the device.
- Software support for unauthorized modifications or misuse of the device.
- File backup or restoration.
- Completion and test of incomplete application programming or system integration, if not performed by Motorola Solutions and covered by Motorola Solutions' services.
- Software Release updates.
- Accidental damage, chemical or liquid damage, or other damage caused outside of normal device operating specifications.
- Motorola Solutions is not obligated to provide support for any device that has been subject to the following:
 - Repaired, tampered with, altered, or modified (including the unauthorized installation of any software) — except by Motorola Solutions authorized service personnel.
 - Subjected to unusual physical or electrical stress, abuse, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable product specification.
 - If MDFR fails to comply with the obligations contained in the product purchase agreement and/or the applicable software license agreement and/or Motorola Solutions terms and conditions of service.
- DMS Essential is quoted on a per-unit basis, is prepaid, non-cancellable and non-refundable for the purchased service term.

3.2.2.4 MDFR Responsibilities

- For non-contiguous renewals and services purchased separately from APX subscriber radios, MDFR must provide a complete list, preferably in electronic format, of all hardware serial numbers to be covered under the Agreement to Motorola Solutions.
- Initiate subscriber radio repairs, as needed.
 - When initiating a repair via a supported Motorola Solutions electronic system, label each package correctly with the shipping label and Return Material Authorization ("RMA") number generated by the electronic system.
 - When initiating a repair via paper Return Material Form ("RMF"), the RMF must be completed for each device, included in the package with the device, and shipped to the Motorola Solutions depot specified on the RMF.
- Remove any data or other information from the device that MDFR wishes to destroy or retain prior to sending the device for repair.

3.2.3 Subscriber Radio Technical Support

3.2.3.1 Scope

Motorola Solutions shall provide Subscriber Radio Technical Support service consisting of telephone consultation for subscriber radio and accessory issues. Support shall be delivered through the Motorola Solutions Centralized Managed Support Operations ("CMSO") organization by a staff of technical support specialists.

MDFR may contact the CMSO Call Management Center (800-MSI-HELP) at any time (24 hours a day / 7 days a week / 365 days per year) and a Motorola Solutions representative will log a technical request in the Case Management System on MDFR's behalf. In addition, MDFR may send email to portal.support@motorolasolutions.com to address any portal specific questions or concerns.

Motorola Solutions will then respond to MDFR case within two hours of case creation, during support hours. Support hours are 7am to 7pm CST, Monday through Friday, excluding US holidays.

3.2.3.2 Motorola Solutions Responsibilities

- Provide technical support for subscriber radios, assessing and troubleshooting reported issues.
- Receive and log MDFR support requests, and assign a technical representative to respond to a Case per the defined timeframes.

3.2.3.3 Limitations and Exclusions

• Land Mobile Radio ("LMR") network, Wi-Fi, and LTE network troubleshooting.

3.2.3.4 MDFR Responsibilities

- Use the provided methods to contact Motorola Solutions technical support.
- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDFR issues.
- Provide contact information for on-site technicians in the event that Motorola Solutions has to follow up.

3.2.4 MyView Portal Access

Motorola Solutions shall provide MyView Portal which is a tool available for MDFR to track order, RMA, and tech support ticket status, and serves as a consolidated download site for software and documentation.

3.2.4.1 Motorola Solutions Responsibilities

- Provide a web accessible, secure portal to view the MDFR's data.
- Provide MyView Portal technical support to answer end user questions between the hours of 7am to 7pm CST Monday through Friday, excluding US holidays. In addition MDFR may send email to portal.support@motorolasolutions.com to address any portal specific questions or concerns.
- Keep the site updated with the latest MDFR information.

• Motorola Solutions' Customer Support Manager ("CSM") will assist MDFR in establishing a MyView Portal account.

3.2.4.2 MDFR Responsibilities

- Create a MyView Portal account if MDFR does not have an existing account.
- During the DMS Essential onboarding process, provide Motorola Solutions with contact information for administrative users.
- Administer user access.
- Provide Internet access for users to access the site.
- Protect login information against unauthorized use.
- Work with Motorola Solutions' CSM to update information as needed.

SECTION 4

ASTRO 25 CONNECTIVITY SERVICE STATEMENT OF WORK

4.1 OVERVIEW

Motorola Solutions shall provide ASTRO® 25 Connectivity Service ("Service") consisting of network backhaul to support MDFR's mission-critical ASTRO 25 communications. The backhaul connection will link ASTRO 25 core sites with ASTRO 25 remote sites and hosted data centers. The Service will also enable connection of Motorola Solutions applications on the cloud. The ASTRO 25 Connectivity Service shall be a fully-managed end-to-end backhaul service.

Motorola Solutions shall provide and install equipment to support the Service, as described in Section 4.2.3: ASTRO 25 Connectivity Service Sites and Equipment. In addition to providing the backhaul equipment and installation services, Motorola Solutions shall maintain and manage network elements required to provide the Service ("Managed Elements"). Motorola Solutions shall provide these services as needed to meet Service Availability Goals described in this Statement of Work. Services in this Statement of Work are delivered by Motorola Solutions and its partners.

The ASTRO 25 Connectivity Service shall also enable SmartConnect on the Miami-Dade Fire Rescue ASTRO25 Core.

4.2 PRODUCT AND INSTALLATION

4.2.1 Scope

Motorola Solutions shall provide and manage connectivity service between the MDFR's ASTRO 25 core sites and the ASTRO 25 remote sites, cloud data centers, or hosted data centers noted in Section 4.2.3: ASTRO 25 Connectivity Service Sites and Equipment.

4.2.2 Motorola Solutions Responsibilities

Motorola Solutions Shall fulfill the following responsibilities to provide the ASTRO 25 Connectivity Service:

 Provide Managed Elements noted in Section 4.2.3: ASTRO 25 Connectivity Service Sites and Equipment to establish connectivity between the MDFR provided equipment and wiring

- for sites noted in the same table. Such Managed Elements are included in the pricing for equipment and installation and is determined by Motorola Solutions.
- Perform a site survey prior to installation to assess that all the conditions for a proper site installation can be met, including, but not limited to the presence of network facilities necessary to provide the necessary connectivity. Motorola Solutions will note any variations of the site that would affect the hardware specifications or estimated labor involved for a standard installation. If the site survey indicates a non-standard installation (for example, the need for construction of "last mile" network facilities), then a mutually-agreed change order may be required.
- Install equipment supplied by Motorola Solutions. Installation period is within 45 business days from the time Motorola Solutions and MDFR execute the Agreement and related addendum or addenda.
- When available and approved by MDFR in writing, Motorola Solutions may use MDFR-owned or MDFR-managed resources at no additional cost to Motorola Solutions. MDFR is solely responsible for maintenance and replacement of such resources and Motorola Solutions bears no responsibility for such resources. Motorola Solutions is further not responsible for any failures in such resources.
- Cooperate with MDFR to schedule the implementation of the ASTRO 25 Connectivity Service.
- Coordinate the activities of any Motorola Solutions subcontractors necessary to provide this service.
- Administer safe work procedures for installation.
- Assist MDFR with operating and using the system during cutover.
- Motorola Solutions may, in its sole discretion, choose to modify the backhaul design. These changes will result in equivalent or improved capacity, cost, reliability, or availability.
- Upon Motorola Solutions request, the MDFR assigned Motorola Technicians will reboot the Managed Elements, provide the LED light statuses of the third-party provider Network Terminating Unit where applicable, verify equipment power, verify that cables are securely connected, and insert a loopback plug.
- The MDFR assigned Motorola Technicians will notify Motorola Solutions of any maintenance
 that may affect the operating status of the Managed Elements using a Customer
 Maintenance Change Management Request via the Helpdesk or MyView Portal. Examples
 of maintenance activities include: powering down the site, a Motorola Solutions' Managed
 Element, or a third-party Network Terminating Unit, or resetting, recabling, or moving
 equipment components.

4.2.2.1 Service Level Availability Objectives

Motorola Solutions' ASTRO 25 Connectivity Service shall include service level goals, calculated using a standard formula as described below. Availability calculations include only active network sites during the reporting period. Inactive mobile sites are not factored into availability calculations. Motorola Solutions shall monitor service availability 24 hours a day, 7 days a week.

Availability Calculation

For the ASTRO 25 Connectivity Service, Motorola Solutions shall provide the MDFR with availability metrics for active sites. ASTRO 25 Connectivity Service availability is the percentage of time that the circuit is available within a given calendar month.

Motorola Solutions shall determine connection availability individually for each of MDFR's ASTRO 25 Connectivity Service connections. Availability is calculated monthly by computing the total number of Critical P1 priority incident outage minutes, as defined in Table 4-2, in a calendar

month and dividing that sum by the total number of minutes in a 30-day calendar month. Availability is calculated after a Critical P1 incident ticket is opened. If the site has backup connectivity, this is factored into the availability calculation. The formula for computing target availability goals is as follows:

Availability (%) = $(1 - (Total minutes of site Hard Outage per month <math>\div$ Number of days in month x 24 hours/day x 60 minutes/hour)) x 100.

Table 4-1 provides Motorola Solutions' availability goals for specific site types. This table contains Motorola Solutions' Service Level Goals.

Wireless Backup Site Type Link Handoff Hardware Service Level Count Goals (NID to SRX) (per link) (VRF) 2 1000 - LC Fiber 99.999% ASTRO 25 SRX1500 Yes Core (Critical Connect) (Primary)

Table 4-1: ASTRO 25 Connectivity Service Level Goals

Outages

Availability is influenced by multiple factors, including network design, equipment, backhaul, and environmental factors. This section defines outage types, and how they factor into service availability calculations.

Hard Outage

A hard outage, classified as a Critical P1 incident, is a complete loss of Motorola Solutions-provided backhaul connectivity, during which MDFR cannot use the service and is prepared to release it for immediate testing. Motorola Solutions factors hard outages into availability calculations and would impact the service level goals.

Planned Outages

Planned outages are pauses in service delivery that Motorola Solutions can notify MDFR of in advance, with a scheduled time for when the outage will end. If a planned outage exceeds the time that was predicted by 10% of the time scheduled, then the outage will be included as an agenda item for discussion at the next meeting between Motorola Solutions and MDFR. Motorola Solutions and MDFR will recategorize the outage during the meeting. Motorola Solutions does not include planned outages in connectivity availability calculations.

Force Majeure

An outage resulting from a *Force Majeure* event is not included in availability calculations, but Motorola Solutions will provide continuous commercially reasonable effort to restore system components affected by such event.

Availability Exclusions

The following items are excluded from Motorola Solutions' availability calculations:

- Periods of Soft Outage, during which MDFR is able to use the ASTRO 25 Connectivity Service, and is not prepared to release the service for immediate testing.
- Customer Premises Equipment ("CPE") not under Motorola Solutions 24/7 monitoring coverage.

- Any delay, act, or omission by MDFR or a third-party, other than the local access provider, that causes or extends an outage is excluded from the availability calculation. In addition, periods of service degradation, such as slow data transmission, where a Critical P1 trouble ticket has not been opened with Motorola Solutions and MDFR has not released its Service for immediate testing are excluded.
- "AS IS". THE SOLUTION AND SUBSCRIPTION SERVICES DESCRIBED HEREIN ARE PROVIDED "AS IS". MOTOROLA SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED
- Availability and Accuracy. MDFR acknowledges that functionality, availability, and
 accuracy of the services described herein is dependent on many elements beyond Motorola
 Solutions' control, including databases managed by MDFR or third parties and MDFR's
 existing equipment, software, and MDFR Data. Therefore, Motorola Solutions does not
 guarantee availability or accuracy of data, or any minimum level of coverage or connectivity.
 MDFR agrees not to represent to any third party that Motorola Solutions has provided such
 guarantee. Interruption or interference with the services described herein may periodically
 occur.

4.2.2.2 Incident Priority Definitions and Response Times

This section describes incident priority levels that support availability measurements.

Table 4-2: ASTRO 25 Connectivity Incident Priority Definitions and Response Time Goals

Incident Priority	Incident Definition	Primary Link Response Time Goals	Secondary Link Response Times
Critical P1	Hard Outage. The ASTRO 25 Connectivity Service is completely inoperable or degraded to the extent that it is unusable by MDFR. MDFR is prepared to release the service for immediate testing.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
High P2	ASTRO 25 Connectivity Service performance is degraded, but MDFR is able to use the Service. Incidents are assigned this priority if MDFR is not prepared to release the service for immediate testing.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Medium P3	A problem is affecting an ASTRO 25 Connectivity Service component, and that problem does not impact service functionality or availability.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Low P4	 MDFR's requests that do not impact the ASTRO 25 Connectivity Service, such as a request for an incident report Service incidents not covered by other priority levels. Scheduled maintenance. 	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5

4.2.3 ASTRO 25 Connectivity Service Sites and Equipment

Table 4-3 describes sites included in the proposed backhaul design, notes their location, and lists the critical solution equipment provided for them.

Table 4-3: ASTRO 25 Connectivity Service Interconnected Site Locations

Site Name	Site Address	Major Equipment
Miami-Dade Fire Rescue Headquarters	9300 NW 41st St., Miami, FL 33178	Routers & LTE

4.3 AVAILABILITY REPORTS

4.3.1 Description of Service

Motorola Solutions shall track the availability of MDFR's ASTRO 25 Connectivity Service components using standardized availability reports, and shall endeavor to achieve availability goals based on those reports. Motorola Solutions shall automatically collect and collate availability data from network elements, and use that data to determine system health and if any maintenance or improvements are needed. Trend analysis can indicate capacity, availability, or reliability issues before they significantly affect services.

4.3.2 Scope

Each month, Motorola Solutions shall create and distribute a network availability report to compare with availability levels described in Section 4.2.2.2: Incident Priority Definitions and Response Times.

This service includes the following tasks:

- Data Collection-Availability data is remotely collected and stored for reporting purposes.
- Data Reporting—A suite of availability reports is generated and uploaded to MyView Portal.

4.3.3 Inclusions

Availability reports shall be provided for Motorola Solutions-provided site connections included as part of the ASTRO 25 Connectivity Service.

4.3.4 Motorola Solutions Responsibilities

- · Collect availability data through defined interfaces.
- Provide the availability reports within MyView Portal.
- Provide a Motorola Solutions assigned technician for MDFR as a point of contact for questions MDFR has about the findings or service reports provided by Motorola Solutions.

4.3.5 Limitations and Exclusions

 Motorola Solutions' availability target objectives, and related availability calculations, exclude availability degradation resulting from MDFR's failure to promptly take necessary actions.

4.4 BACKHAUL EVENT MONITORING

4.4.1 Description of Service

Motorola Solutions shall provide Backhaul Event Monitoring including real-time end-to-end event monitoring and fault isolation for ASTRO 25 Connectivity Service backhaul components and links. Backhaul Event Monitoring shall include a set of sophisticated tools support remote detection and classification of events on the MDFR's backhaul network. When an event is detected, MDFR will be alerted via tickets provided through the MyView portal as well through email notifications. Motorola Solutions shall determine the status of impacted backhaul links and engage with other service teams as needed to isolate the cause and resolve the incident. Motorola Solutions will respond to incidents in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.

4.4.2 Scope

Backhaul Event Monitoring is available 24 hours a day, 7 days a week. Motorola Solutions' tools and processes for monitoring ASTRO 25 radio networks shall be leveraged to monitor the backhaul endpoints effectively, and to provide a consistent monitoring experience if receiving both services. Incidents that are generated by the monitoring service will be handled in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.

4.4.3 Inclusions

Backhaul Event Monitoring is provided for the links and equipment listed in Section 4.2.3: ASTRO 25 Connectivity Service Sites and Equipment.

4.4.4 Motorola Solutions Responsibilities

- Use concurrent connectivity through the network connection established to support Backhaul Event Monitoring.
- Verify connectivity and event monitoring after system installation is complete.
- Monitor backhaul links continuously 24 hours per day, 7 days per week.
- Create incident tickets when necessary. Identify and classify the link associated with the incident. Gather information to perform the following:
 - Characterize the issue.
 - Determine a plan of action.
 - Assign and track the incident to resolution.
- Remotely access MDFR's backhaul to perform remote diagnosis and fault isolation as permitted by MDFR pursuant to Section 4.4.6: MDFR Responsibilities.
- Dispatch MDFR's field service technician designated in the CSP when necessary, and maintain communications with MDFR until the incident is resolved. Provide updates in accordance with the agreed frequency, until resolution.
- Upon a Priority 1 Incident, Motorola will notify the MDFR Dispatch Center via email and telephone.

4.4.5 Limitations and Exclusions

- Change to monitoring excludes any scope not contained in 4.3
- Additional support charges beyond the contracted service rates may apply if Motorola Solutions determines that system faults were caused by MDFR making changes to critical system parameters.
- Motorola Solutions is not responsible for system faults or deficiencies that are caused by changes or modifications to the system not performed by Motorola Solutions.
- MDFR assigned Motorola technicians to notify the CMSO when MDFR performs any activity
 that impacts the backhaul components. Activity that impacts the backhaul components may
 include, but is not limited to: installing software or hardware upgrades, performing upgrades
 to the network, renaming elements or devices within the network, and taking down part of
 the system to perform maintenance.

4.4.6 MDFR Responsibilities

- Provide continuous power service to any Motorola Solutions backhaul equipment installed or used at MDFR's premises to support delivery of the service. MDFR agrees to take reasonable due care to secure the Motorola Solutions equipment from theft or damage while on MDFR's premises.
- Allow Motorola Solutions' field service technician, designated in the CSP, access to remove Motorola Solutions-owned monitoring equipment upon cancellation of service.
- Acknowledge that incidents will be handled in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.

4.5 REMOTE TECHNICAL SUPPORT

4.5.1 Description of Service

Motorola Solutions shall provide Remote Technical Support service consisting of telephone consultation for technical issues that require ASTRO 25 Connectivity Service backhaul knowledge and troubleshooting capabilities. As with ASTRO 25 incidents, the CMSO Service Desk will respond to ASTRO 25 Connectivity Service incidents.

4.5.2 Scope

The CMSO Service Desk shall be available via telephone 24 hours per day, 7 days per week, and 365 days per year to receive and log requests for technical support. Remote Technical Support service shall be provided in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times. Any unresolved incidents will be escalated to Motorola Solutions engineering and Original Equipment Manufacturers (OEM) for further assistance.

4.5.3 Motorola Solutions Responsibilities

- Maintain availability of the Motorola Solutions CMSO Service Desk via telephone (800-221-7144) 24 hours per day, 7 days per week, and 365 days per year to receive, log, and classify MDFR requests for support.
- Respond to requests for service in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.
- Provide caller a plan of action outlining additional requirements, activities, or information required to achieve restoral/fulfillment.
- Maintain communication with MDFR in the field as needed until resolution of the incident.
- Coordinate technical resolutions with agreed upon third-party vendors, as needed.
- Escalate support issues to additional Motorola Solutions technical resources, as applicable.
- Determine, in its sole discretion, when an incident requires more than the Remote Technical Support services described in this SOW and notify MDFR of an alternative course of action.
- The MDFR assigned Motorola technician will submit changes in any information supplied in the CSP to the Customer Support Manager ("CSM").

4.5.4 Limitations and Exclusions

The following activities are outside the scope of the Remote Technical Support service:

- MDFR training.
- Remote Technical Support for network transport equipment or third-party products not sold by Motorola Solutions.
- Any maintenance and/or remediation required as a result of a virus or unwanted cyber intrusion.

4.5.5 MDFR Responsibilities

- Maintain suitably trained technical resources familiar with the operation of MDFR's system to provide field maintenance and technical maintenance services for the system.
- Acknowledge that incidents will be handled in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.

On-site Response

Motorola Solutions' On-site Response service provides incident management and escalation for on-site technical service requests. The service is delivered by Motorola Solutions' Centralized Managed Support Operations ("CMSO") organization in cooperation with a local service provider.

4.5.6 Description of Service

The Motorola Solutions CMSO Service Desk will receive MDFR's request for on-site service.

The CMSO Dispatch Operations team is responsible for opening incidents, dispatching on-site resources, monitoring issue resolution, and escalating as needed to achieve response time goals.

The dispatched field service technician will travel to MDFR's location to restore the system in accordance with Section 4.2.2.2: Incident Priority Definitions and Response Times.

Motorola Solutions will manage incidents as described in this SOW. The CMSO Service Desk will maintain contact with the field service technician until incident closure.

4.5.7 Scope

On-site Response is available as needed to support the availability described in Section 4.2.2.2: Incident Priority Definitions and Response Times.

4.5.8 Inclusions

On-site Response is provided for hardware included with ASTRO 25 Connectivity Service.

4.5.9 Motorola Solutions Responsibilities

- Receive service requests.
- Create an incident when service requests are received. Gather information to characterize the issue, determine a plan of action, and assign and track the incident to resolution.
- Dispatch a field service technician, as required by Motorola Solutions' standard procedures, and provide necessary incident information.
- Provide the required personnel access to relevant MDFR information, as needed.
- Motorola Solutions designated field service technician will perform the following on-site:
 - Run diagnostics on the component.
 - Perform physical fault restoration and hardware maintenance to restore component functions.
 - Provide materials, tools, documentation, physical planning manuals, diagnostic and test equipment, and any other material required to perform the maintenance service.
 - If a third-party vendor is needed to restore the system, the vendor can be accompanied onto MDFR's premises.
 - If required by MDFR's repair verification in the Customer Support Plan ("CSP"), verify
 with MDFR that restoration is complete or system is functional. If verification by MDFR
 cannot be completed within 20 minutes of restoration, the incident will be closed and the
 field service technician will be released.
 - Escalate the incident to the appropriate party upon expiration of a response time.

- Close the incident upon receiving notification from MDFR or Motorola Solutions on-site service technician, indicating the incident is resolved.
- Notify MDFR of incident status, as defined in the CSP and Service Configuration Portal ("SCP"):
 - Open and closed.
 - Open, assigned to the Motorola Solutions field service technician, arrival of the servicer technician on-site, delayed, or closed.
- Provide incident activity reports to MDFR, if requested.
- If required by repair verification preference provided by MDFR, MDFR assigned Motorola technicians to verify with the CMSO Service Desk and dispatch that restoration is complete or system is functional.

MDFR assigned Motorola technicians to perform reasonable or necessary acts to enable Motorola Solutions to provide these ACS services.

4.5.10 MDFR Responsibilities

- Contact Motorola Solutions, as necessary, to request service.
- Prior to start date, provide Motorola Solutions with the following pre-defined MDFR information and preferences necessary to complete CSP:
 - Incident notification preferences and procedure.
 - Repair verification preference and procedure.
 - Database and escalation procedure forms.
- Submit changes in any information supplied in the CSP to MDFR Support Manager ("CSM").
- Provide the following information when initiating a service request:
 - Assigned system ID number.
 - Problem description and site location.
 - Other pertinent information requested by Motorola Solutions to open an incident.
- Provide field service technician with access to equipment.

4.6 SOFTWARE UPDATES

4.6.1 Description of Service

Each quarter, Motorola Solutions shall provide relevant Original Equipment Manufacturer ("OEM") software patches for backhaul equipment included as part of the ASTRO 25 Connectivity Service. These patches will update equipment when required to maintain compatibility with components or will address security vulnerabilities.

4.6.2 Scope

Motorola Solutions shall update network components when it determines it is necessary to maintain the ASTRO 25 Connectivity Service, and shall provide security updates as needed to address identified security vulnerabilities. Any updates done will be in coordination with MDPD.

Software Updates follow Motorola Solutions' defined change management process to avoid potential disruption. Once an OEM software update is available, Motorola Solutions shall initiate the change process to define the update's impact and work with MDFR to schedule its implementation.

4.6.3 Inclusions

Motorola Solutions shall provide relevant software patches and updates as provided by OEMs based on a schedule mutually agreed by the parties.

4.6.4 Motorola Solutions Responsibilities

- Provide relevant software and security patches to MDFR when provided by the OEM.
- Notify MDFR if an update will require network downtime to implement.
- Work with MDFR to schedule installation of disruptive software patches.

4.6.5 Limitations and Exclusions

Motorola Solutions does not provide warranties on software updates. Motorola shall ensure
that available software warranties on software updates will be provided directly by the OEM
to the County.

4.6.6 MDFR Responsibilities

Work with Motorola Solutions to schedule installation of disruptive software patches.

STATEMENT OF WORK

5.1 OVERVIEW

This Statement of Work (SOW) describes the deliverables to be furnished to Miami-Dade Fire Department. The tasks described herein shall be performed by Motorola Solutions, its subcontractors, and MDFR to implement the solution described in the System Description. The Statement of Work describes the actual work involved in installation, identifies the installation standards to be followed, and clarifies the responsibilities for both Motorola Solutions and MDFR during the project implementation. Specifically, this SOW provides:

- A summary of the phases and tasks to be completed within the project lifecycle.
- A list of the deliverables associated with the project.
- A description of the responsibilities for both Motorola Solutions and MDFR.
- The qualifications and assumptions taken into consideration during the development of this project.

Motorola Solutions represents and warrants that it has made all reasonable inquiries to assure itself of the assumptions Motorola has made regarding the sites to be used for the new system. Should any of the sites change a revision to this SOW the associated pricing will be negotiated between the County and Motorola. Any changes to this SOW shall only be made by mutual agreement of Motorola Solutions and the County.

The six (6) new UHF ASTRO25 repeater sites with GTR 8000 Base Radios are listed in Table 5-1.

 Site Name
 No. of Channels

 Aventura Hospital
 6

 Fire Station 18
 6

 Fire Station 71 (Eureka)
 5

 Fire Station 72 (Florida City)
 5

 PortMiami
 9

 Homestead Air Reserve Base
 5

Table 5-1: New RF Sites

The individual civil upgrades are detailed in the civil scope section below.

5.2 MANNER OF PERFORMANCE

- All work is to be performed during normal work hours, Monday through Friday 8:00 a.m. to 5:00 p.m.
- Motorola Solutions is not responsible for interference caused or received by the Motorola Solutions-provided equipment except for interference that is directly caused by the Motorola Solutions-provided transmitter(s) to the Motorola Solutions-provided receiver(s). Should MDFR system experience interference, Motorola Solutions can be contracted to investigate the source and recommend solutions to mitigate the issue.

• It should be noted that 900 MHz, Wi-Fi 6E, 2.4 GHz, and 5.2/5.4/5.8 GHz bands are unlicensed. Therefore, Motorola Solutions has no control over signal emissions in these bands that may interfere with the desired signals. Although link surveys will identify possible existing interference sources, there is no guarantee that interference will not emerge after the survey. Motorola Solutions can assist MDFR in assessing interference issues if they occur, however, the cost for the services and any additional equipment necessary to resolve the interference problem are beyond the scope of the generic link survey and installation.

5.3 CONTRACT INITIATION

5.3.1 Contract Award (Milestone)

 MDFR and Motorola Solutions execute the contract and both parties receive all the necessary documentation.

5.3.2 Contract Administration

Motorola Solutions Responsibilities:

- Assign a local, dedicated Project Manager, as the single point of contact with authority to make project decisions.
- Assign resources necessary for project implementation.
- Set up the project in the Motorola Solutions information system.
- Schedule the project kickoff meeting with MDFR.

MDFR Responsibilities:

- Assign a Project Manager, as the single point of contact responsible for MDFR-signed approvals.
- Assign other resources necessary to ensure completion of project tasks for which MDFR is responsible.

Completion Criteria:

- Motorola Solutions internal processes are set up for project management.
- Both Motorola Solutions and MDFR assign all required resources.
- Project kickoff meeting is scheduled.

5.3.3 Project Kickoff

- Conduct a project kickoff meeting during the CDR (Contract Design Review) phase of the project.
- Ensure key project team participants attend the meeting.
- Introduce all project participants attending the meeting.
- Review the roles of the project participants to identify communication flows and decisionmaking authority between project participants.
- Review the overall project scope and objectives with MDFR.
- Review the resource and scheduling requirements with MDFR.
- Review the Project Schedule with MDFR to address upcoming milestones and/or events.

 Review the teams' interactions (Motorola Solutions and MDFR), meetings, reports, milestone acceptance, and MDFR's participation in particular phases.

MDFR Responsibilities:

- MDFR's key project team participants attend the meeting.
- Review Motorola Solutions and MDFR responsibilities.

Completion Criteria:

- · Project kickoff meeting completed.
- Meeting notes identify the next action items.

5.4 CONTRACT DESIGN REVIEW

5.4.1 Review Contract Design

Motorola Solutions Responsibilities:

- Meet with MDFR project team.
- Review the operational requirements and the impact of those requirements on various equipment configurations.
- Establish a defined baseline for the system design and identify any special product requirements and their impact on system implementation.
- Review the System Design, Statement of Work, Project Schedule, and Acceptance Test Plans, and update the contract documents accordingly.
- Discuss the proposed Cutover Plan and methods to document a detailed procedure.
- Submit design documents to MDFR for approval. These documents form the basis of the system, which Motorola Solutions will manufacture, assemble, stage, and install.
- Prepare equipment layout plans for staging or field (as required by site).
- Establish demarcation point (supplied by the Motorola Solutions system engineer) to define
 the connection point between the Motorola Solutions-supplied equipment and MDFRsupplied link(s) and external interfaces. This includes, but is not limited to, installing
 necessary infrastructure (example conduit).
- Work with MDFR to identify radio interference between the new communication system and other existing radio systems.

Restrictions:

- Motorola Solutions assumes no liability or responsibility for inadequate frequency availability or frequency licensing issue.
- Motorola Solutions is not responsible for issues outside of its immediate control. Such
 issues include, but are not restricted to, improper frequency coordination by others and
 non-compliant operation of other radios. However, Motorola Solutions will provide, upon
 request, all necessary data for frequency coordination.
- Motorola Solutions is not responsible for co-channel interference due to errors in frequency coordination by APCO or any other unlisted frequencies, or the improper design, installation, or operation of systems installed or operated by others
- If, for any reason, any of the proposed sites cannot be utilized due to reasons beyond Motorola Solutions' control, the costs associated with site changes or delays including, but not limited to, re-engineering, frequency re-licensing, site zoning, site permitting, schedule delays, site abnormalities, re-mobilization, etc., will be paid for by MDFR and documented through the change order process.

MDFR Responsibilities:

- MDFR's key project team participants attend the meeting.
- Make timely decisions within a reasonable period after presentation of an issue by Motorola.
- Frequency Licensing and Interference:
 - As mandated by FCC/, MDFR, as the licensee, has the ultimate responsibility for providing all required radio licensing or licensing modifications for the system prior to system staging. This responsibility includes paying for FCC licensing and frequency coordination fees.
 - Provide the FCC / "call sign" station identifier for each site prior to system staging.

Completion Criteria:

- Complete Design Documentation, which may include updated System Description,
 Equipment List, system drawings, or other documents applicable to the project.
- Incorporate any deviations from the proposed system into the contract documents accordingly.
- The system design is "frozen" in preparation for subsequent project phases such as Order Processing and Manufacturing.
- A Change Order is executed in accordance with all material changes resulting from the Design Review to the contract.

5.4.2 Design Approval (Milestone)

MDFR executes a Design Approval milestone document.

5.5 ORDER PROCESSING

5.5.1 Process Equipment List

- Validate Equipment List by checking for valid model numbers, versions, compatible options to main equipment, and delivery data.
- Enter order into Motorola Solutions' MDFR Order Fulfillment (COF) system.
- Create Ship Views, to confirm with MDFR the secure storage location(s) to which the
 equipment will ship. Ship Views are the mailing labels that carry complete equipment
 shipping information, which direct the timing, method of shipment, and ship path for ultimate
 destination receipt.
- Create equipment orders.
- Reconcile the equipment list(s) to the Contract.
- Procure third-party equipment if applicable.
 Completion Criteria:
- Verify that the Equipment List contains the correct model numbers, version, options, and delivery data.
- Trial validation completed.
- Bridge the equipment order to the manufacturing facility.
- Motorola Solutions will place 48v DC and UPS orders under the direction of MDFR (after site
 acquisition) and will be installed and energized within one year of ship. If FPL cannot provide
 power in a timely manner, battery energize date may extend beyond the 1-year target date
 at the County's reasonable expense.

5.6 MANUFACTURING AND STAGING

5.6.1 Manufacture Motorola Solutions Fixed Network Equipment

Motorola Solutions Responsibilities:

 Manufacture the Fixed Network Equipment (FNE) necessary for the system based on equipment order.

MDFR Responsibilities:

None.

Completion Criteria:

FNE shipped to either the field or the staging facility.

5.6.2 Manufacture Non-Motorola Solutions Equipment

Motorola Solutions Responsibilities:

 Procure non-Motorola Solutions equipment necessary for the system based on equipment order.

MDFR Responsibilities:

· None.

Completion Criteria:

• Ship non-Motorola Solutions manufactured equipment to the field and/or the staging facility.

5.6.3 Ship to Staging (Milestone)

No staging.

5.6.4 Stage System

- Set up and rack the system equipment on a site-by-site basis, as it will be configured in the field at each of the transmitter/receiver sites.
- Cut and label cables according to the approved CDR documentation.
- Label the cables with to/from information to specify interconnection for field installation and future servicing needs.
- Complete the cabling/connecting of the subsystems to each other ("connectorization" of the subsystems).
- Assemble required subsystems to assure system functionality.
- Power up, program, and test all staged equipment.
- · Confirm system configuration and software compatibility to the existing system.
- Load application parameters on all equipment according to input from Systems Engineering.
- Complete programming of the Fixed Network Equipment.
- Inventory the equipment with serial numbers and installation references.
- Complete system documentation.

- Third party subsystems may be staged at the manufacturer's facilities and integrated in the field.
- Provide a Factory Acceptance Test Plan.

Completion Criteria:

System staging completed and ready for testing.

5.6.5 Perform Staging Acceptance Test Procedures

Motorola Solutions Responsibilities:

- Test and validate system software and features.
- Functional testing of standard system features.
- Conduct site and system level testing.
- Power-up site equipment and perform standardized functionality tests.
- Perform MDFR-witnessed tests based upon Factory Acceptance Test Plan.

MDFR Responsibilities:

None.

Completion Criteria:

Approve Factory Acceptance Testing.

5.6.6 Ship Equipment to Field

Motorola Solutions Responsibilities:

- · Pack system for shipment to final destination.
- · Arrange for shipment to the field.

MDFR Responsibilities:

None.

Completion Criteria:

Equipment ready for shipment to the field.

5.6.7 CCSi Ship Acceptance (Milestone)

· All equipment shipped to the field.

5.7 SITE DEVELOPMENT STATEMENT OF WORK

5.7.1 General

- Provide and install new Microflect entry port covers over the cored access holes for the
 wave guide and RF coax to access the inside/outside of the facility as required by code
 (applies only to sites with new coax).
- Enhanced Drone Airborne Response for Documentation of all new RF site locations (PM, Aventura, FS18, FS71, FS72, HARB) after project completion. A pre-installation site survey will also be done by Airborne Response prior to site work commencing.

- Request for power deployment must be initiated as soon as reasonably possible so as not to delay site build.
- Provide mobilization costs for the construction crews. Any remobilization due to negligence by MDFR or other things outside of Motorola Solutions' control that results in interruptions/delays will result in additional costs.
- All UPS units should have a corded connection.
- All new generators will be Onan Cummins.
- Shelters are equipped with two (2) Bard or May Air through-wall AC's.
- 3-Ton Split systems are manufactured by Rheem.
- Provides camlocks with manual transfer switches at all sites getting a new Onan Cummins generator.
- New Tower Sites (FS18, FS71 & FS72) will have new water lines.
- ITD managed tower approval process Motorola will propose antenna heights and size and review with ITD for approval. Upon approval, Motorola will contract with Structural Components LLC to perform a structural analysis, which will then be reviewed with ITD prior to any work commencing.

For Site Development at Aventura Hospital, Motorola Solutions shall place the RF equipment on the 9th floor and the microwave and DC plant in the 10th floor equipment rooms and then run out of each equipment room with the coax runs across the hallway floor and core through the outside wall and install a new waveguide ladder from the 9th floor to the 12th floor roof over the elevator shaft where the antennas and microwave dish are to be located. Existing openings may be used if approved by building owner and MDFR. Also, in the electrical rooms Motorola Solutions shall provide ground radar to identify rebar and tension cabling in the floor and then core one (1) 3-inch hole in the floor and sleeve the hole so that RF coax from the 9th floor to the 1st floor to allow our Motorola Solutions FSO to install coax for antennas from the system on the receive side of the system for coverage in the ER.

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services MDFR responsibility
- Zoning Services MDFR responsibility.
- Site Detail:
 - New TX / RX Site.
 - Microwave Backhaul.
 - 48 VDC Plant.
 - Remote Antennas in ER.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity.

This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.
- Motorola Solutions will be responsible for the installation of all fixed equipment contained in the equipment list and outlined in the System Description based upon the agreed to floor plans, at the sites where the physical facility improvement is complete, and the site is ready for installation. All equipment will be properly secured to the floor and installed in a neat and professional manner, employing a standard of workmanship consistent with its own R-56 installation standards and in compliance with applicable National Electrical Code (NEC), EIA, Federal Aviation Administration (FAA)/Transport Canada, and FCC. For installation of the fixed equipment at the various sites, Motorola Solutions will furnish all cables for power, audio, control, and radio transmission to connect the Motorola Solutions-supplied equipment to the power panels or receptacles and the audio/control line connection point. During field installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system. Receive and inventory all equipment. Provide warehousing for equipment as shipped. Bond the supplied equipment to the site ground system in accordance with Motorola Solutions' R56 standards.

Antenna and Transmission Line Installation

- Install three (3) antenna(s) for the RF system.
- Install antenna and dish mounts.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering.
- Install up to 750 linear feet of 1-5/8-inch transmission line (Plenum cable will be installed if required).
- Perform sweep tests on transmission lines.

- Run new electrical circuits from the generator supported panels in the 10th floor electrical room to the DC plant and install those double pole 30-amp circuits to the rectifier of the DC plant.
- Core between the 9th and 10th floor for connectivity between the Microwave, DC and RF equipment as the RF equipment will be located on the 9th floor and the Microwave and DC will be located on the 10th floor. Also, coring of the electrical room wall and the hallway above the ceiling and then coring the outside wall of the 9th and 10th floor.
- Additional radar investigation of the electrical room floors and coring from the 9th floor down
 the electrical room chase to the bottom floor for access for the installation of coax for the inbuilding antenna system down to the ER and other locations in the lower part of the
 Hospital.
- Provide and Install new Waveguide Ladder on the external wall of the stair well from the 9th floor to the top of the building on to the elevator equipment penthouse and stair well roof. This will be installed from the 9th floor to the top of the 12th floor.
- Provide and install new microwave dish mounts and Tx and Rx antenna mounts as well as cable tray system on the 12th floor roof which is over the top of the stairwell and the elevator equipment room.

- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Transport galvanized steel ladder and mounts to the top of the Hospital Elevator Room and stairwell roof for installation.
- Bonded Roofing once the support structure for the microwave, antennas and cable support system has been installed.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Motorola Solutions will provide 2-inch conduits to AT&T demarcation points, from radio room to MDF or handhole as required by AT&T but within the property lines.
- Tower lights, generators, AC's to be fully interfaced to MOSCAD.
- All equipment will be deployed with 48v Power Supply or Inverter.
- DC breaker panel will be at the top of each rack.
- DC breaker (separate) for one (1) MDFR equipment two (2) Ciena.

5.7.2 Site Development at Fire 18 (New Facility Proposed)

New 199-foot Self-Supported Tower and RF shelter where the RF shelter and Onan Cummins generator and fuel tank will be elevated above existing ground elevation 9-feet based on the FEMA 100 year flood plain of 7-foot elevation and therefore Motorola Solutions designed the platform to be 2-feet higher than the FEMA 100 year plan.

Site Scope Summary

- Site Detail:
 - New RX Site.
 - Tower.
 - Shelter with Elevated Platform.
 - 48v DC.
 - Onan Cummins generator.
 - Additional Fuel Storage.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- New fenced compound/expansion size 60-foot x 60-foot.
- Clearing type Medium.
- Road length requiring improvement 100-feet.
- New power run 600-feet, Electrical service type Underground, 300-amp 120/240-volt, single-phase.
- New telecom run necessary length, two (2), 2-inch conduits.
- New shelter size 12-foot x 34-foot.
 - Equipped with two (2) Bard or Mav Air through-wall AC's.
 - Adding 3-Ton Rheem Split system.
- New fuel tank size 300-gallons, Type Diesel sub-base.
- New generator size 80 kW, Type Indoor.
- New 500-gallon Convault Tank for additional fuel storage.
- Fuel Storage sufficient for minimum 5 days of generator run-time.

- New tower to be used for antennas See Section 2.3: Towers for FS18, FS71 & FS72.
- New tower foundation size As engineered to support the tower. 160 cubic yards, Type Drilled Pier.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings showing the layout of various new and existing site components.
- Site Design Visit to layout the site plan and start design and engineering of the site.
- Perform a site and topographic survey for the property on which the communication site is located or will be located.
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform construction staking around the site to establish reference points for proposed construction.
- Perform NEPA Threshold Screening, including limited literature and records search and brief
 reporting, as necessary to identify sensitive natural and cultural features referenced in 47
 CFR Chapter 1, subsection 1.1307 that may potentially be impacted by the proposed
 construction activity. This does not include the additional field investigations to document site
 conditions if it is determined that the proposed communication facility "may have a significant
 environmental impact" and thus require additional documentation, submittals, or work.
 Regional Environmental Review (RER) report submittals if required by FEMA have not been
 included. Perform Cultural Resource study as needed to identify sensitive historical and
 archaeological monuments that might be impacted by proposed construction.
- Conduct up to 40-foot-deep soil boring test at tower location and prepare geotechnical report
 of soil conditions at locations of the tower foundation. Grouting of boring holes or access by
 Automatic Traction Vehicle (ATV) mounted rig is not included.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Check tower erection for plumbness, linearity and alignment after installation.
- Perform inspection of the site and the work performed by the Contractor to document that
 the site is built in accordance with the "Site Plans" and document any deviations or
 violations.
- Prepare, submit and track application for local permit fees (zoning, electrical, building etc.),
 prepare FAA filings and procure information necessary for filing.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews.
- Perform necessary clearing, grubbing and disposal of vegetation and shrub growth in the site compound area and a 20-foot path around it (10,000 square feet).
- Perform tree clearing, grubbing and disposal of vegetation in the site compound area and a 20-foot path around it (3600 square feet). Perform necessary tree clearing as identified in

- the site walk. Grubbing and disposal of vegetation and shrub growth in a 15-foot-wide access road to the site (not to exceed 100-feet in length).
- Grade the site compound and 10-foot path around it to provide a level, solid, undisturbed surface for installation of site components (not to exceed 6400 square feet).
- Provide earth fill to raise surface level in the site compound (not to exceed 500 cubic yards).
- Supply and install gravel surfacing to a depth of 6 inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 4356 square feet).
- Provide a 15-foot-wide access road (not to exceed 100 feet in length), including surface grading and graveling.
- Provide silt fence around the compound to control soil erosion (not to exceed 240 linear feet).
- Supply and install 8-foot-high chain-link fencing with a ten-foot-wide gate around the shelter compound (not to exceed 240 linear feet).
- Perform site touch up (fertilize, seed and straw) disturbed areas not covered with gravel after completion of construction work. Landscaping, decorative fencing or any other aesthetic improvement that may be required by local jurisdictions has not been included and will be handled through a negotiated contract change notice.

Site Components Installation

- Construct one (1) reinforced concrete foundation necessary for a 12-foot x 34-foot shelter.
- Supply and install one (1) prefabricated concrete shelter 12-foot x 34-foot (including 10-foot generator room).
- Supply and install one (1) 120/240-volt, 300-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 200 cable feet of the shelter.
- Supply and install a perimeter grounding system around the compound and shelter. The
 ground system is to tie to the fence and all new metal structures within the compound to
 meet current Motorola Solutions' R56 standards. Must include accessible interface to future
 fire station grounding system. Add handhole to ground for proposed fire station.
- Conduct one (1) 3-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County, Florida.
- Supply and install one (1) freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 10 linear feet).

Tower Work

- Construct drilled pier type tower foundations including excavation, rebar and concrete (not to exceed 160 cubic yards).
- Erection of 199-foot' Self-Supported Tower.
- Supply and install grounding for the tower base for self-supported towers.

Antenna and Transmission Line Installation

- Install three (3) antenna(s) for the RF system.
- Install three (3) new 6-foot antenna mounts.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering Install up to 660 linear feet of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.
- Supply and install one (1) ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.

- Spoils to be removed from site that is removed from tower foundation to approved fill area.
- Supply and install aboveground 500-gallon Convault double wall UL 142 carbon steel skid diesel tank with epoxy finish, 5-gallon waste oil receptade, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.
- Site must be de-mucked.
- Fill dirt transported in for foundation for the RF Shelter and Extended external fuel tank 1' above ground with foundations and structure above ground designed per Thermo bond shelter loads and reactions based on a 12 x 34 RF Shelter with indoor 80 KW Onan Cummins generator and 300-Gallon Diesel Skid tank. This fill dirt will be placed, packed, and tested to required compaction as required to support the shelter, generator and fuel tank load.
- 40,000 de-frag tank to remove slurry and water removed from tower foundation during tower foundation construction and hauled to approved fill area for disposal.
- Drilled Pier foundations for the elevated platform to house the new RF shelter with generator and the additional fuel tank based on FEMA 100-year flood plain levels.
- Engineer, Fabricate, ship and provide 20' x 50' steel platform to support and elevate the new RF shelter, generator and additional Convault fuel tank above the FEMA 100-year flood plain area for the location of the shelter.
- Installation and erection of the new elevated shelter, generator and fuel tank platform to be 9' over the existing ground grade to provide additional 2-feet.
- Private Location for all utilities located on property and especially in the area of construction work for this tower.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Photo Rendering of Tower on property.
- Temporary Fencing around the base of the new tower and associated structures.
- Motorola Solutions will provide 2-inch conduits to AT&T demarcation points, from radio room to MDF or handhole as required by AT&T but within the property lines.
- Tower lights, generators, AC's & Fuel levels to be fully interfaced to MOSCAD.
- All equipment will be deployed with 48v Power Supply or Inverter.
- DC breaker panel will be at the top of each rack.
- DC breaker (separate) for one (1) MDFR equipment two (2) Ciena.
- Provide and Install PVC conduit or Inter Duct between the TELCO D-Mark and Extend the conduit up to 300-feet from shelter to proposed AT&T D-Mark for fiber and network installation by provider.
- Provide and install concrete man box and provide and install 600' of PVC conduit back to main water line, tap and meter and provide water faucet to outside of shelter.
- Drilled Pier foundations for the elevated platform to house the new RF shelter with generator and the additional fuel tank based on FEMA 100-year flood plain levels.
- Engineer, Fabricate, ship and provide 20' x 50' steel platform to support and elevate the new RF shelter, generator and additional Convault fuel tank above the FEMA 100-year flood plain area for the location of the shelter.
- Installation and erection of the new elevated shelter, generator and fuel tank platform to be 9' over the existing ground grade to provide additional 2-feet.

5.7.3 Site Development at K&B Site

Existing tower location for MDFR and Motorola Solutions proposes to install new shelter and Onan Cummins generator 1-foot above the current ground elevation. Based on the information acquired from the FEMA Flood plain maps for this location it is already above the Base Flood Elevation.

Site Scope Summary

- Engineering services for site drawings and regulatory approvals included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Clearing type Light.
- New power run 200-feet, Electrical service type Underground, 300-amp 120/240-volt, single-phase. With hand hole at base of pole.
- Telecom in separate hand hole for four (4) 2-inch conduits.
- Two (2) 2-inch underground conduits to existing building.
- Two (2) 2-inch underground conduits to existing ITD building.
- New shelter size 12-foot x 34-foot.
 - Equipped with two (2) Bard or Mav Air through-wall AC's.
 - Adding Rheem 3-Ton Rheem Split system.
- New fuel tank size 300 gallons-, Type Diesel sub-base.
- New Onan Cummins generator size 80 kW, Type Indoor.
- New 500-gallon Convault Fuel Tank.
- Fuel Storage sufficient for minimum 5 days of generator run-time.
- Existing tower to be used for antennas 335-foot self-supported Tower.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited
 literature and records search and brief reporting, as necessary to identify sensitive natural
 and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1,
 subsection 1.1307 that may be potentially impacted by the proposed construction activity.
 This does not include the additional field investigations to document site conditions if it is
 determined that the proposed communication facility "may have a significant environmental
 impact" and thus require additional documentation, submittals, or work.
- Perform four-point soil resistivity testing at the time of site visit.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.

- Perform tower mapping and antenna inventory prior to being able to conduct structural analysis.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any
 inspections with local authorities that may be needed to complete site development work.
- Perform clearing of brush, grubbing and disposal of vegetation and shrub growth in the site compound area and a 20-foot path around it (14,400 square feet).
- Grade the site compound and 10-foot path around it to provide a level, solid, undisturbed surface for installation of site components (not to exceed 10000 square feet).
- Supply and install gravel surfacing to a depth of 6 inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 8316 square feet).
- Provide silt fence around the compound to control soil erosion (not to exceed 320 linear feet).
- Perform site touch up (fertilize, seed and straw) disturbed areas not covered with gravel after completion of construction work. Landscaping, decorative fencing or any other aesthetic improvement that may be required by local jurisdictions has not been included and will be handled through a negotiated contract change notice.

Site Components Installation

- Supply and Install Shelter foundation on the new 1' elevated site area for the 12' x 34' shelter and additional fuel tank.
- Supply and install one (1) prefabricated concrete shelter 12-foot x 34-foot (including 10-foot generator room).
- Supply and install one (1) 120/240-volt, 300-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 200 cable feet of the shelter.
- Supply and install a perimeter grounding system around the compound and shelter. The ground system is to tie to the fence and all new metal structures within the compound to meet current Motorola Solutions' R56 standards.
- Conduct 1 three-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County, Florida.
- Supply and install one (1) freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 20 linear feet).

- Motorola Solutions will provide dirt and compact that dirt in a 30 x 40 area to support the shelter and additional fuel tank. This will elevate the shelter foundation by 1-foot above existing surface grade. This was required by MDFR.
- Cut existing lines and wave guide off from at the existing equipment shelter and re-route on new ice bridge to new RF shelter that is elevated and re-connect run into new RF Shelter Entry Port for connection to RF equipment and Microwave. Shelter placement will be close enough for the existing lines to reach.

- Relocation of existing equipment from existing RF equipment room to new RF shelter and install all Microwave and RF equipment and cabling and then optimize site and bring online connected to new DC Plant.
- Provide and Install 2-inch PVC conduit between new RF shelter and the existing MDFR
 equipment facility and the Miami-Dade IT Equipment facility which houses the PD and SO
 RF and microwave equipment. Motorola Solutions will also provide and install a PVC J box
 on the outside of each facility for pulling of fiber between locations.
- Spoils to be removed from site that is removed from surface grade of the 30' x 40' area to approved fill area.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Supply and install aboveground 500-gallon Convault double wall UL 142 carbon steel skid
 diesel tank with epoxy finish, 5-gallon waste oil receptade, drain and screen with vent and
 accessory package, including all necessary fuel, piping (with trenching up to 50-feet from
 generator), pump, regulators, valves, gauges, testing of system for leakages.

5.7.4 Site Development at Fire Station 71 Site (Eureka)

New 199-foot Self-Supported Tower and RF shelter where the RF shelter and generator and fuel tank will be elevated 1-foot above current ground elevation. Based on the information acquired from the FEMA Flood plain maps for this location it is above the Base Flood Elevation requirement.

Site Scope Summary

- Site Detail:
 - New TX / RX.
 - Microwave.
 - New Tower.
 - New Shelter.
 - 48v DC.
 - Onan Cummins generator.
 - Additional Fuel Storage.
- Engineering services for site drawings and regulatory approvals included.
- Site acquisition services Completed.
- Zoning Services Completed.
- New fenced compound/expansion size 80-foot x 80-foot.
- Clearing type Light.
- Road length requiring improvement 500-feet.
- New power run 1000-feet, Electrical service type Underground, 300-amp 120/240-volt, single-phase.
- New shelter size 12-foot x 34-foot.
 - Equipped with two (2) Bard or May Air through-wall AC's.
 - Adding Rheem 3-Ton Rheem Split system.
- New fuel tank size 300-gallons, Type Diesel sub-base.
- New generator size 80 kW, Type Indoor.
- New 500-gallon Convault Fuel Tank.
- Fuel Storage sufficient for minimum 5 days of generator run-time.
- New tower to be used for antennas See Section 2.3: Towers for FS18, FS71 & FS72.
- New tower foundation size 160 cubic yards, Type Drilled Pier.

Microwave connectivity between KB – TG.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Perform a site and topographic survey for the property on which the communication site is located or will be located.
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform construction staking around the site to establish reference points for proposed construction.
- Perform NEPA Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 CFR Chapter 1, subsection 1.1307 that may potentially be impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Regional Environmental Review (RER) report submittals if required by FEMA have not been included. Perform Cultural Resource study as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Conduct up to 40-foot-deep soil boring test at tower location and prepare geotechnical report
 of soil conditions at locations of the tower foundation. Grouting of boring holes or access by
 Automatic Traction Vehicle (ATV) mounted rig is not included.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Check tower erection for plumbness, linearity and alignment after installation.
- Perform inspection of the site and the work performed by the Contractor to document that
 the site is built in accordance with the "Site Plans" and document any deviations or
 violations.
- Prepare, submit and track application for local permit fees (zoning, electrical, building etc.), prepare FAA filings and procure information necessary for filing.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews.
- Perform light clearing of brush, grubbing and disposal of vegetation and shrub growth in the site compound area and a 20-foot path around it (14400 square feet).
- Perform clear light brush, grub roots and dispose vegetation and shrub growth in a 15-footwide access road to the site (not to exceed 500-feet in length).
- Grade the site compound and 10-foot path around it to provide a level, solid, undisturbed surface for installation of site components (not to exceed 10000 square feet).

- Supply and install gravel surfacing to a depth of 6-inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 7396 square feet).
- Provide a 15-foot-wide access road (not to exceed 500-feet in length), including surface grading and graveling.
- Provide silt fence around the compound to control soil erosion (not to exceed 320 linear feet).
- Supply and install 8-foot-high chain-link fencing with a ten-foot-wide gate around the shelter compound (not to exceed 320 linear feet).
- Perform site touch up (fertilize, seed and straw) disturbed areas not covered with gravel after completion of construction work. Landscaping, decorative fencing or any other aesthetic improvement that may be required by local jurisdictions has not been included and will be handled through a negotiated contract change notice.

Site Components Installation

- Supply and Install Shelter foundation and expansion fuel tank on the new 3-foot elevated site area for the 12' x 34' shelter and additional fuel tank.
- Supply and install one (1) prefabricated concrete shelter 12-foot x 34-foot (including 10-foot generator room).
- Supply and install one (1) 120/240-volt, 300-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 200 cable feet of the shelter.
- Supply and install a perimeter grounding system around the compound and shelter. The
 ground system is to tie to the fence and all new metal structures within the compound to
 meet current Motorola Solutions' R56 standards.
- Conduct one (1) 3-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County. Florida.
- Supply and install one (1) freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 20 linear feet).

Tower Work

- Construct drilled pier type tower foundations including excavation, rebar and concrete (not to exceed 160 cubic yards).
- Erect new 199-foot self-supported tower.
- Supply and install grounding for the tower base for self-supported towers.

Antenna and Transmission Line Installation

- Install three (3) antenna(s) for the RF system.
- Install three (3) new 6-foot antenna mounts.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering Install up to 660 linear feet of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.
- Supply and install one (1) ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.

- 40,000 de-frag tank to remove slurry and water removed from tower foundation during tower foundation construction and hauled to approved fill area for disposal.
- Spoils to be removed from site that is removed from tower foundation to approved fill area.

- Supply and install aboveground 500-gallon Convault double wall UL 142 carbon steel skid diesel tank with epoxy finish, 5-gallon waste oil receptade, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Photo Rendering of Tower on property.
- Temporary Fending around the base of the new tower.
- Provide and Install PVC conduit or Inter Duct between the TELCO D-Mark and Extend the conduit up to 300-feet from shelter to proposed AT&T D-Mark for fiber and network installation by provider.
- Provide and install concrete man box and provide and install 1,000 of PVC conduit back to main water line, tap and meter and provide water faucet to outside of shelter.

5.7.5 Site Development at Fire Station 72 Site (Florida City)

New 199-foot Self-Supported Tower and RF shelter where the RF shelter and generator and fuel tank will be elevated above the Base Flood Elevation per the FEMA 100-year flood plain.

Site Scope Summary

- Site Detail:
 - New TX / RX.
 - Microwave.
 - New Tower.
 - New Shelter.
 - 48v DC.
 - Onan Cummins generator.
 - Additional Fuel Storage.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- New fenced compound/expansion size 80-foot x 80-foot.
- Clearing type Medium.
- Road length requiring improvement 500-feet.
- New power run 1000-feet, Electrical service type Underground, 300-amp 120/240-volt, single-phase.
- New shelter size 12-foot x 34-foot.
 - Equipped with two (2) Bard or Mav Air through-wall AC's.
 - Adding Rheem 3-Ton Rheem Split system.
- New fuel tank size 300-gallons, Type Diesel sub-base.
- New generator size 80 kW, Type Indoor.
- New tower to be used for antennas See Section 2.3: Towers for FS18, FS71 & FS72.
- New tower foundation size 160 cubic yard, Type Drilled Pier.

Motorola Solutions Responsibilities:

Site Engineering

 Prepare site construction drawings showing the layout of various new and existing site components.

- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Perform a site and topographic survey for the property on which the communication site is located or will be located.
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform construction staking around the site to establish reference points for proposed construction.
- Perform NEPA Threshold Screening, including limited literature and records search and brief
 reporting, as necessary to identify sensitive natural and cultural features referenced in 47
 CFR Chapter 1, subsection 1.1307 that may potentially be impacted by the proposed
 construction activity. This does not include the additional field investigations to document site
 conditions if it is determined that the proposed communication facility "may have a significant
 environmental impact" and thus require additional documentation, submittals, or work.
 Regional Environmental Review (RER) report submittals if required by FEMA have not been
 included. Perform Cultural Resource study as needed to identify sensitive historical and
 archaeological monuments that might be impacted by proposed construction.
- Conduct up to 40-foot-deep soil boring test at tower location and prepare geotechnical report
 of soil conditions at locations of the tower foundation. Grouting of boring holes or access by
 Automatic Traction Vehicle (ATV) mounted rig is not included.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Check tower erection for plumbness, linearity and alignment after installation.
- Perform inspection of the site and the work performed by the Contractor to document that
 the site is built in accordance with the "Site Plans" and document any deviations or
 violations.
- Prepare, submit and track application for local permit fees (zoning, electrical, building etc.), prepare FAA filings and procure information necessary for filing.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews.
- Perform medium clearing, grubbing and disposal of vegetation and shrub growth in the site compound area and a 20-foot path around it (14,400 square feet).
- Perform medium tree clearing (Trees up to 6-inch in diameter), grubbing and disposal of vegetation and shrub growth in a 15-foot-wide access road to the site (not to exceed 500 feet in length).
- Grade the site compound and 10-foot path around it to provide a level, solid, undisturbed surface for installation of site components (not to exceed 10000 square feet).
- Supply and install gravel surfacing to a depth of 6-inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 7396 square feet).
- Provide a 15-foot-wide access road (not to exceed 500-feet in length), including surface grading and graveling.

- Provide silt fence around the compound to control soil erosion (not to exceed 320 linear feet).
- Supply and install 8-foot-high chain-link fencing with a ten-foot-wide gate around the shelter compound (not to exceed 320 linear feet).
- Perform site touch up (fertilize, seed and straw) disturbed areas not covered with gravel after completion of construction work. Landscaping, decorative fencing or any other aesthetic improvement that may be required by local jurisdictions has not been included and will be handled through a negotiated contract change notice.

Site Components Installation

- Supply and Install Shelter foundation and expansion diesel tank on the new 3-foot elevated site area for the 12' x 34' shelter and additional fuel tank.
- Supply and install one (1) prefabricated concrete shelter 12-foot x 34-foot (including 10-foot generator room).
- Supply and install one (1) 120/240-volt, 300-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 200 cable feet of the shelter.
- Supply and install a perimeter grounding system around the compound and shelter. The
 ground system is to tie to the fence and all new metal structures within the compound to
 meet current Motorola Solutions' R56 standards.
- Conduct one (1) 3-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County, Florida.
- Supply and install one (1) freestanding 24-inch-wide cable/ice bridge from the tower to the shelter (up to 20 linear feet).

Tower Work

- Construct drilled pier type tower foundations including excavation, rebar, and concrete (not to exceed 160 cubic yards).
- Erect new 199-foot self-supported tower.
- Supply and install grounding for the tower base for self-supported towers.

Antenna and Transmission Line Installation

- Install three (3) antenna(s) for the RF system.
- Install three (3) new 6-foot antenna mounts.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering.
- Install up to 660 linear feet of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.
- Supply and install one (1) ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.
- Install two (2) antennas & lines provided by Homestead Police Department.
- Add connectivity for Homestead Police Department from FS72 to another joint HPD / MDFR site via the MDFR Nokia network.

- 40,000 de-frag tank to remove slurry and water removed from tower foundation during tower foundation construction and hauled to approved fill area for disposal.
- Spoils to be removed from site that is removed from tower foundation to approved fill area.
- Supply and install aboveground 500-gallon Convault double wall UL 142 carbon steel skid diesel tank with epoxy finish, 5-gallon waste oil receptade, drain and screen with vent and

- accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Photo Rendering of Tower on property.
- Temporary Fencing around the base of the new tower.
- Provide and Install PVC conduit or Inter Duct between the TELCO D-Mark and Extend the conduit up to 300-feet from shelter to proposed AT&T D-Mark for fiber and network installation by provider.
- Provide and install concrete man box and provide and install 1,000 of PVC conduit back to main water line, tap and meter and provide water faucet to outside of shelter.
- Drilled Pier foundations for the elevated platform to house the new RF shelter with generator and the additional fuel tank based on FEMA 100-year flood plain levels.
- Engineer, Fabricate, ship and provide 20' x 50' steel platform to support and elevate the new RF shelter, generator and additional Convault fuel tank above the FEMA 100-year flood plain area for the location of the shelter.
- Installation and erection of the new elevated shelter, generator and fuel tank platform 10-feet above ground grade to provide additional 2-feet.

5.7.6 Site Development at SW (Solid Waste)

Site Scope Summary

- Site Detail:
 - Antennas.
 - 48v DC.
 - Onan Cummins generator.
 - Additional Fuel Storage.
 - HVAC.
 - Microwave.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 150-foot Monopole.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is

- determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Site Components Installation

- Construct one (1) concrete slab for 500-gallon aboveground diesel at 3000 psi with reinforcing steel necessary for foundations.
- Offload and Install 50KW diesel generator, fill subbase tank with 300-gallon of fuel and connect to ATS located within 25-feet of the generator. Existing generator foundation will be used to place the new generator and fuel tank.

- Provide portable generator and wire to main panel so that generator and ATS can be changed out without shutting down the site.
- Remove existing generator and LP fuel tank for the site and transport the generator to the County owned facility and identify with the LP provider if the tank belongs to the County or to the provider and make arrangements for the fuel and the tank to be removed.
- Remove the ATS and all associated wiring and install new ATS and reinstall wiring and contacts as well as block heater and battery charging circuits per manufacturer and per Motorola Solutions R56 Specifications.
- Startup of the new Diesel Generator and ATS and then cutover back from the portable generator to the new site diesel generator.
- Provide and install new Rheem HVAC air handling unit and compressor with line sets and charging and optimizing of system.
- UPS removal once DC Plant is brought online and supporting site equipment and Installation of a new HVAC unit.
- Enhanced Drone Airborne Response for Documentation of all new site locations.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Install a new EATON Integrated Manual Transfer and Cam Lock system in front of automatic transfer switch on shelter.
- Supply and install aboveground 500-gallon Convault double wall UL 142 diesel tank, 5-gallon waste oil receptade, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.

5.7.7 Site Development at PT (Palm Tower)

Site Scope Summary

- Site Detail:
 - UPS.
 - HVAC.
 - MW.
 - Antenna.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Perform an x-ray of the structure (up to 15 locations of three-square feet each) to determine the location of structural components and rebar sizing.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Existing Facility Improvement Work

Install one (1) new single-phase UPS equipment and wire output to UPS distribution panel.

- Remove the existing Wall Mounted HVAC unit with crane and install a new split HVAC unit in its place on the wall with new thermostat, wiring and conduit as required.
- Start up the new HVAC split unit and bring online and set up to work with the existing Ducane HVAC unit. There is an existing wall mount unit on the wall of the Penthouse equipment room today and that is where the new HVAC unit is to go. If MDFR requires it can be changed to another wall mount unit.
- Provide and Install new Split HVAC unit.
- Logistics associated with Crane and HVAC and Palm Tower Ownership.

5.7.8 Site Development at Fire Station 54

Site Scope Summary

- Site Detail:
 - 48v DC.
 - Antenna.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 150-foot Monopole.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Existing Facility Improvement Work

- Supply and install one (1) 100-amp breaker panel with capacity for 20-circuits.
- Supply and install seven (7) 30-amp breakers in the distribution panel and wire to outlets located on an average within 35 cable feet.

Miscellaneous Work

Remove the existing natural gas generator and ATS and replace with new Onan Cummins
Diesel generator and ATS including boom truck, materials and labor to swap out the
generator and ATS equipment.

- Provide temporary generator power to main panel so that you can keep Fire Station 54 online while the ATS and Generator are being swapped out.
- Fuel the new 300-Gallon Diesel skid tank up to 80% of capacity perform startup, optimize, test and cutover new generator and ATS.
- Install additional electrical conduit and wire to feed the new 100-amp panel from the main electrical room to the equipment room for the new DC Plant.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Supply and install aboveground 500-gallon Convault double wall UL 142 diesel tank with epoxy finish, 5-gallon waste oil receptacle, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.
- Install a new EATON Integrated Manual Transfer and Cam Lock system in front of automatic transfer switch on shelter.

5.7.9 Site Development at TGK

Site Scope Summary

- Site Detail:
 - 48v DC.
 - HVAC.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna loads. No obtrusive investigations have been included.

- Perform an x-ray of the structure (up to 15 locations of three square feet each) to determine the location of structural components and rebar sizing.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Existing Facility Improvement Work

- Coordinate the installation of electrical sub feed with disconnect into the equipment room from adjacent existing motor room.
- Provide and install a new Split HVAC unit.
- Start-up new Split HVAC system and bring online and optimize with Thermostats, HVAC and Generators to operate as proposed.
- Relocate existing electrical circuits in existing panel and free up breaker spaces to provide electrical for new plant.
- New Electrical circuits from electrical panel located in adjacent mechanical room on roof for new Split HVAC system and provide and wire new disconnect and then to the new HVAC Compressor and Condenser.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Provide and Install new AC panel, conduit and wiring from generator protected panel for DC rectifier circuits.

5.7.10 Site Development at TG (Trail Glades)

Site Scope Summary

- Summary:
 - Onan Cummins generator.
 - Additional Fuel Storage.
 - 48v DC.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 350-foot self-supported Tower.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity.

This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Labor, materials, and equipment required to replace existing LP Generator on platform with a new 50 KW Diesel Generator with 300-Gallon Skid Tank.
- Labor, materials, and equipment to exchange the existing ATS for a new ATS at the facility
 while using a backboard with circuits and outlets to change out the ATS and Generator while
 also keeping the site online.
- Installation of mechanical winch on the top wall of the platform so that diesel fuel tank hose can be raised to the fuel tank level to fill the diesel tank.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Provide and install new rectifier circuits.
- Supply and install aboveground 500-gallon Convault double wall UL 142 diesel tank, 5-gallon waste oil receptade, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from platform and up the platform support structure to the generator), pump, regulators, valves, gauges, testing of system for leakages.
- Install a new EATON Integrated Manual Transfer and Cam Lock system in front of automatic transfer switch on shelter.

5.7.11 Site Development at MICC (Miccosukee)

Site Scope Summary

- Site Detail:
 - UPS.
 - Vislink.
 - Additional equipment needed for relocation from ACDY (list Combiner & Antenna).
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 200-foot self-supported Tower.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Antennas and Lines

- Install one (1) antenna(s) for the RF system.
- Supply and install one (1) 6-foot side arm(s) for antenna mounts.
- Install up to 230 linear feet of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.

Existing Facility Improvement Work

Supply and install one (1) cable entry panel with 6-ports.

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover.
- Core wall for new 6-port coax entry.

5.7.12 Site Development at Fire Station 36

Site Scope Summary

- Site Detail:
 - 48v DC.
 - HVAC.
 - Additional Fuel Storage.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 150-foot Monopole.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews.

Site Components Installation

- Construct one (1) concrete slab for 1000-gallon aboveground Liquid Propane (LP) fuel tank at 3000 psi with reinforcing steel necessary for foundations.
- Supply and install one (1) 1000-gallon Liquid Propane (LP) fuel tank(s), fill it with fuel and connect it to the generator.
- Supply and install fuel tank monitors on the tanks to monitor low fuel in tanks and run alarm wiring to the building located within 50-feet of the tank.

Existing Facility Improvement Work

- Coordinate the installation of electrical sub-feed with disconnect into the equipment room.
- Supply and install one (1) 200-amp breaker panel with capacity for 30-circuits.

Miscellaneous Work

- Provide and install a new Split HVAC unit there is already an existing MDFR required Rheem HVAC unit in the equipment room.
- Start-up new Split HVAC system and bring online and optimize with Thermostats, HVAC and Generators to operate as required by MDFR.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.
- Install additional electrical conduit and wire from the main electrical room to the equipment room for the new DC panel feed.
- New MOSCAD connectivity as per matrix.

5.7.13 Site Development at Fire Station 9

Site Scope Summary

- Site Detail:
 - New Shelter.
 - Onan Cummins generator.
 - Additional Fuel Storage.
 - HVAC.
 - 48v DC.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Clearing type Medium.
- New power run 200-feet, Electrical service type Underground, 200-amp 120/240-volt, single-phase.
- New shelter size 12-foot x 26-foot.
- New fuel tank size 300-gallons, Type Diesel sub-base.
- New generator size 50 kW, Type Indoor.
- Existing tower to be used for antennas 150-foot Monopole.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is

- determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Perform four-point soil resistivity testing at the time of site visit.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Perform Tower Mapping and antenna inventory to be able to conduct structural analysis for new required antennas and dish.
- Conduct construction inspection of foundation steel prior to pour, materials testing of concrete and field density tests of backfill to ensure quality construction.
- Preparation, submission and tracking of application for local permit fees (electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any
 inspections with local authorities that may be needed to complete site development work.
- Provide one-time mobilization costs for the construction crews.
- Perform tree clearing, grubbing and disposal of vegetation in the site compound area and a 20-foot path around it (3000 square feet).
- Cut and remove existing asphalt pavement, not to exceed 1000 square feet.
- Supply and install gravel surfacing to a depth of 6-inches, including herbicide treatment and geotextile fabric installation within the fenced in site compound area, and a 3-foot path around it (not to exceed 760 square feet).
- Perform site touch up (fertilize, seed and straw) disturbed areas not covered with gravel after completion of construction work. Landscaping, decorative fencing or any other aesthetic improvement that may be required by local jurisdictions has not been included and will be handled through a negotiated contract change notice.

Site Components Installation

- Construct one (1) reinforced concrete foundation necessary for a 12-foot x 26-foot shelter.
- Construct one (1) concrete slab for 500-gallon aboveground diesel at 3000 psi with reinforcing steel necessary for foundations.
- Supply and install one (1) prefabricated concrete shelter 12-foot x 26-foot (including 10-foot generator room).
- Supply and install two (2) 120/240-volt, 200-amp, single-phase meter pedestal and hookup for electrical service by the local utility.
- Provide all trenching, conduit, and cabling necessary for underground hookup of power to the shelter from nearby utility termination located within 200 cable feet of the shelter.
- Provide all trenching, conduit, and cabling necessary for underground hookup of telecom to the shelter from nearby utility termination.
- Supply and install a perimeter grounding system around the compound and shelter. The
 ground system is to tie to the fence and all new metal structures within the compound to
 meet current Motorola Solutions' R56 standards.
- Conduct one (1) 3-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County, Florida.

Miscellaneous Work

 Relocate existing coax and waveguide to new RF shelter from Monopole, and terminate and test every line.

- Provide and Install PVC conduit or Inter Duct between the TELCO D-Mark and Extend the conduit up to 300-feet from shelter to proposed AT&T D-Mark for fiber and network installation by provider.
- Relocate existing RF equipment from top of Fire Station RF equipment room to new RF Shelter, power up, test and optimize, and bring online.
- Supply and install aboveground 500-gallon Convault double wall UL 142 carbon steel skid diesel tank with epoxy finish, 5-gallon waste oil receptade, drain and screen with vent and accessory package, including all necessary fuel, piping (with trenching up to 50-feet from generator), pump, regulators, valves, gauges, testing of system for leakages.
- Construct form over existing conduits from Fire Station to Monopole to shore up coax until shelter foundation is complete and coax has been relocated to new shelter. Once the coax has been moved to new shelter the conduits and remaining coax will be removed and concrete will be pumped in the area under the shelter foundation.
- This is critical site and the move to the new shelter will be done to minimize downtime.
- Private Locate on property to determine utilities.
- Removal of existing trees on property so that site can be constructed.
- New MOSCAD connectivity as per matrix.

5.7.14 Site Development at HWT (Homestead Wittkop Tank)

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 152-foot Water Tank.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.

- Provide tower mapping if necessary for the structural engineering analysis.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

• Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- UPS change out to same size UPS unit.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.15 Site Development at HRT (Homestead Racetrack Water Tower)

Site Scope Summary

- Site Scope Detail:
 - Antennas.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 150-foot Water Tank.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

- Provide and install new 100-amp service from existing panel and running new conduit and wire in the water tank to the existing RF room for new DC Plant installation.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS removal and DC Plant installation.
- Remove UPS and Install new UPS in equipment room. Transporting existing UPS down
 from equipment room within the water tank and then transporting the new DC plant and
 batteries up the stairs for location in the RF and Microwave equipment room located in the
 Water Tank.

5.7.16 Site Development at RNAS

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 150-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design antenna support platform to support proposed antennas and dishes if located on the parapet
- If located on the tower we will provide a structural engineering analysis for the MW antenna support structure (at the opposite end), if necessary, to support the proposed equipment loads. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required.

- Remove existing UPS and transport for proper disposal.
- Provide and install new rectifier circuits.
- New MOSCAD connectivity as per matrix.

5.7.17 Site Development at PRYD

Site Scope Summary

- Site Detail:
 - Antenna.
 - UPS.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 210-foot self-supported Tower.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Perform Tower Mapping and Antenna Inventory for Structural Analysis prior to installing new antennas, lines and dish.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

 Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired. Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.18 Site Development at BMH

Site Scope Summary

- Site Detail:
 - West Channel.
 - Antennas.
 - UPS.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 190-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design multi-antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.19 Site Development at PGH (Palmetto Medical Center)

Site Scope Summary

- Site Detail:
 - Antennas.
 - Vislink.
 - UPS.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.20 Site Development at HH (Hialeah Hospital)

New air-conditioned cabinets will be installed and the existing equipment racks which house the RF and Microwave equipment will be re-installed inside the new air-conditioned cabinets. A new 48v DC power supply will be installed in place of the existing UPS.

Site Scope Summary

- Site Detail:
 - Air-Conditioned cabinets for existing RF, Microwave Equipment & Rectifiers:
 - All cabinets will have redundant AC's.
 - MOSCAD monitoring.
 - Antennas.
 - 48vDC.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 180-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Provide additional 100-amps of power to room to support three (3) outdoor cabinets to run the
 HVAC feed to the power source within the three (3) cabinets to be distributed out from the
 cabinet panel to DC Plant. Portable backboard with panel and circuits and outlets with drop
 cords to wire up from main and use to support equipment during UPS removal to DC plant.
- Provide Inverter Circuits from Inverter Panel to Motorola Solutions equipment for AC power off the DC plant as required within the cabinets.
- Provide and Install rectifier circuits.
- Crane up the two (2) outdoor cabinets to the 2nd floor off set roof that, weigh estimated 650-pounds for each cabinet. Once the cabinets are on the 2nd floor offset roof, then lift and locate from the roof to the equipment room on the 2nd floor.

- Set up the cabinets and run the two (2) 100-amp power feeds to each cabinet for electrical distribution within the cabinets with the DC plant and batteries.
- Fabricate and install of new antenna mount on wall to extend antenna above cellular equipment located to the back of the antenna and shadowing the antenna.
- Relocate new Outdoor cabinets across the roof and into equipment roof and set up for equipment placement and electrical.
- Structural analysis for the new mounts to be raised on the wall of the facility; sealed and stamped for the State of Florida prior to fabrication.
- New MOSCAD connectivity as per matrix.

5.7.21 Site Development at PortMiami (PM)

New PEPRO 11'6" x 19' shelter which estimated weight empty will weigh 18,000-pounds, and be outfitted with electrical, HVAC and step-down transformer. Motorola Solutions will provide PVC conduits from ground floor IT room of the parking deck to the new equipment shelter and pull and terminate one (1) 24-strand single mode armored fiber optic cable. Motorola Solutions will provide PVC conduits for power from ground floor of the parking deck to the new equipment shelter.

Site Scope Summary

- Site Detail:
 - New TX / RX Site.
 - New Shelter.
 - 48v DC.
 - HVAC.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services MDFR responsibility.
- Zoning Services MDFR Responsibility.
- New shelter size 11'6"-foot x 19-foot.
- Existing Parking Deck Stairway Roof to be used for antennas 154-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Design antenna mounts to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural

and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna loads. No obtrusive investigations have been included.
- Perform an x-ray of the structure (up to 15 locations of three square feet each) to determine the location of structural components and rebar sizing.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.

Site Preparation

- Obtain the permits such as electrical, building, and construction permits, and coordinate any inspections with local authorities that may be needed to complete site development work.
- Mobilization and demobilization of crews.

Site Components Installation

- Construct one (1) reinforced concrete foundation necessary for an 11'6" x 19' shelter.
- Supply and install one (1) prefabricated concrete shelter 11'6"-foot x 19-foot.
- Supply and install a perimeter grounding system around the compound and shelter. The
 ground system is to tie to the fence and all new metal structures within the compound to
 meet current Motorola Solutions' R56 standards. Will interface to existing buildings
 grounding system.
- Conduct one (1) 3-point ground resistance test of the site. Should any improvements to grounding system be necessary after ground testing, the cost of such improvements shall be the responsibility of Miami-Dade County, Florida.
- Supply and install cable transition from shelter to parapet wall.
- Provide PVC conduits from ground floor IT room of the parking deck to the new equipment shelter, and pull and terminate one (1) 24-strand single mode armored fiber optic cable.
- Antenna and Transmission Line Installation
- Install four (4) UHF antenna(s), one (1) VHF antenna and two (2) Multi-band Discone antennas.
- Provide and Install mounts on the roof of the 11th floor stairways to be able to install the Rx and Tx antennas.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering.
- Install necessary quantity of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.
- Supply and install one (1) ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.

Miscellaneous Work

- Provide Crane and Install new 11'6" x 19' Walk-in Shelter on the 11th floor of Port Miami Parking Deck.
- Stabilizers and footplates or shelter frame mounting to level, support and anchor down the new walk-in shelter to the 11th floor parking deck.
- New Electrical Run from the ground floor electrical room panel to the 11th floor of the parking deck and connect to the new electrical main disconnect for the Walk-In shelter.
- Fabricate, Galvanize and install new antenna mounts on the roof of the 11th floor stairwells for the Rx and Tx antennas. Any additional coring for mount installation and coax installation for antenna placement on the 11th floor stair well roofs on the Northeast and Southeast corners.
- Provide and install new PVC conduit and 000 stranded bare copper run from the 11th floor of the parking deck down the outside wall of the parking deck to earth for ground.
- Install a new ground at the base of the parking deck to the North side including exothermic
 welds (cad welds) and ground rods. This will require hand digging in the ground system
 because of existing utilities and grounds in that area of the parking deck and connect to the
 existing ground system around the parking deck that is currently there for the down grounds
 today.
- Provide and Install 24-count fiber in the new 2-inch conduit from the 11th floor MDFR RF shelter to the IT room located on the ground floor or 1st floor of the parking deck, terminate and test each fiber.
- Photo rendering of the new MDFR shelter placed on the roof of the Port of Miami Parking Deck 11th floor.
- Additional rigging and personnel required to install shelter on the roof of the parking deck.

5.7.22 Site Development at IC

Site Scope Summary

- Site Detail:
 - Microwave.
 - Antennas.
 - UPS.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 1100-foot Guyed Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.

- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.23 Site Development at Interama Tower (INT)

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 250-foot Lattice Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.

- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

• Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.24 Site Development at KEY (Key Biscayne)

Site Scope Summary

- Site Detail:
 - UPS.
 - West Channel.
- Engineering Services Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural

and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.25 Site Development at Coral Gables Fire Station 3 (CGFS3)

Site Scope Summary

- Site Detail:
 - Antenna.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 140-foot self-supported Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is

- determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

5.7.26 Site Development at FHP

Site Scope Summary

- Site Detail:
 - Antenna.
 - UPS.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 100-foot Self-supported Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of

- any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.27 Site Development at ROB (Robertson)

Site Scope Summary

- Site Detail:
 - Microwave.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 250-foot Self-supported Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Tel∞, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited
 literature and records search and brief reporting, as necessary to identify sensitive natural
 and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1,
 subsection 1.1307 that may be potentially impacted by the proposed construction activity.
 This does not include the additional field investigations to document site conditions if it is
 determined that the proposed communication facility "may have a significant environmental
 impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of

- any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Conduct site investigation necessary to develop structural analysis (cases where adequate as-built documentation is not provided).
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

5.7.28 Site Development at Metropolis (MET)

Existing Building is being used for RF as well as Vislink and will require new UPS equipment.

Site Scope Summary

- Site Detail:
 - Antennas.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 300-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Existing Facility Improvement Work

Supply and install one (1) cable entry panel with 4-ports.

5.7.29 Site Development at SDGC

Existing Building is being used for RF as well as VISLINK and will require new rack mounted UPS equipment.

- Site Detail:
 - Antenna.
 - UPS.
 - Vislink
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 100-foot Rooftop.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

- Provide one-time mobilization costs for the construction crews.
- Remove existing rack mounted UPS and replace new APC rack mounted UPS #2 6KVA UPS Swap out with Labor and replace the direct wiring with plug wiring for change outs in the future.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.30 Site Development at FIU

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

 Prepare site construction drawings, showing the layout of various new and existing site components.

- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.31 Site Development at Acqualina Site

- Site Detail:
 - Vislink.
 - Antennas.
 - UPS
- Existing Building and being used for RF and will require new UPS equipment.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 450-foot Rooftop.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1,

subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna loads. No obtrusive investigations have been included.
- Perform an x-ray of the structure (up to 15 locations of 3 square feet each) to determine the location of structural components and rebar sizing.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

Provide one-time mobilization costs for the construction crews.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS #2 6KVA
 UPS Swap out with Labor and replace the direct wiring with plug wiring for change outs in
 the future.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.32 Site Development at Homestead Air Reserve Base (HARB) Tower Site

Existing 160-foot self-supported tower and 12 x 16 shelter and we need to upgrade the UPS to a new 20 KVA UPS to replace the existing EATON UPS.

Site Scope Summary

- Site Detail:
 - New TX / RX Site.
 - UPS.
 - Antennas.
 - _ Microwave
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 160-foot Self-supported Tower.

Motorola Solutions Responsibilities:

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).

- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work.
- Perform 4-point soil resistivity testing at the time of site visit.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County, Florida.
- Provide a structural engineering analysis for the MW antenna support structure (at the
 connecting site), if necessary, to support the proposed equipment loads. If the tower
 structure fails the analysis, the cost of any site relocation or modifications to the tower
 required to support the antenna system will be the responsibility of Miami-Dade County,
 Florida.
- Provide tower climbing and tower mapping services for towers up to 350-feet to collect information about structural members and existing equipment.
- Perform a site visit to inventory the latest existing tower loading and appurtenances.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Provide one-time mobilization costs for the construction crews.

Antenna and Transmission Line Installation

- Install three (3) antenna(s) for the RF system.
- Supply and install three (3) 6-foot side arm(s) for antenna mounts.
- Install two (2) Panasonic VIC100 GPS antennas with integrated Lightning Protection & Filtering.
- Install up to 510 linear feet of 1-5/8-inch transmission line.
- Perform sweep tests on transmission lines.
- Supply and install one (1) ground buss bar at the bottom of the antenna support structure for grounding RF cables before they make horizontal transition.

Miscellaneous Work

- Provide temporary wiring to change out the existing UPS and replace with new UPS and bypass switch. This will require electrical backboard, drop cords and technicians capable to locate existing RF equipment to temporary electrical and then once new UPS is in place relocate back on the new UPS.
- Provide and Install PVC conduit or Inter Duct between the TELCO D-Mark and Extend the conduit up to 300-feet from shelter to proposed AT&T D-Mark for fiber and network installation by provider.

5.7.33 Site Development at PSN Site

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.
- Existing tower to be used for antennas 300-foot Tower.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Task 1 NEPA compliance/FCC checklist if the building is over 45-years old/eligible for National Register of Historic Places to determine how the proposed antenna location affects Historical Site or Excessive RF Radiation Exposure and prepare Cultural resource report.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Design multi antenna support platform to support proposed antennas and dishes.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Site Preparation

• Provide one-time mobilization costs for the construction crews.

Existing Facility Improvement Work

Supply and install one (1) cable entry panel with 6-ports.

Miscellaneous Work

- Remove existing rack mounted UPS and replace new APC rack mounted UPS Swap out with Labor and change out to plug wiring so the new UPS is not direct wired.
- Portable backboard with panel and circuits and outlets with drop cords to wire up from main and use to support equipment during UPS cutover, wiring and external bypass removal and installation of new external bypass.

5.7.34 Site Development at Hialeah Police Department Site (HPD)

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.

• Zoning Services - Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Miscellaneous Work

 Remove existing rack mounted UPS and replace new APC rack mounted UPS #2 6KVA UPS Swap out with Labor and replace the direct wiring with plug wiring for change outs in the future.

5.7.35 Site Development at PFPL

Site Scope Summary

- Site Detail:
 - UPS.
 - Antennas.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

Miscellaneous Work

Remove existing rack mounted UPS and replace new APC rack mounted UPS #2 6KVA
 UPS Swap out with Labor and replace the direct wiring with plug wiring for change outs in
 the future.

5.7.36 Site Development at Fire Station 04

Site Scope Summary

- Site Detail:
 - Antennas.
 - West Channel.
- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Completed.
- Zoning Services Completed.

Motorola Solutions Responsibilities:

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Preparation, submission and tracking of application for local permit fees (zoning, electrical, building etc.) and procurement of information necessary for filing.

5.7.37 Applicable to all Site Development

- Motorola Solutions shall be responsible for complying with all applicable provisions of Florida law that relate to design and construction of public buildings and facilities including, but not limited to. Florida Statutes Sections 255.05, 255.20 and 287.055.
- All work shall be done during normal business hours, excluding County holidays) as dictated by time zone (Monday thru Friday, 7:30 a.m. to 5:00 p.m.). NOTE: MDFR may request a work stoppage, with no financial penalty, during a declared disaster.
- If extremely harsh or difficult weather conditions delay the site work for more than a week, Motorola Solutions will seek excusable delays rather than risk job site safety.
- Motorola Solutions shall provide all the necessary parts, material, and services to deploy fully functional sites.

5.8 MDFR RESPONSIBILITIES & ASSUMPTIONS

MDFR Responsibilities Associated with MDFR Sites:

- As required, prepare and submit Electromagnetic Energy (EME) plans for any Miami-Dade existing site (as a licensee) to demonstrate compliance with FCC RF Exposure guidelines.
- As applicable, coordinate, prepare, submit, and pay for all required permits and inspections for the work that is MDFR's responsibility.
- Pay for all utility connection, pole or line extensions, and any easement or usage fees required where the power is new or being upgraded.
- Reimburse Motorola Solutions for all utility connection, pole or line extensions, and any
 easement or usage fees required where the power is new or being upgraded.
- Authorize power connection to new sites with the power provider.
- All new utility installations shall be coordinated by Motorola, authorized by MDFR and located at jointly agreed to location within or around the new communications shelter or equipment room.
- The existing site has adequate room to expand and install the shelter, including lay-down
 and staging areas, without encroaching on wetlands, easements, setbacks, rights-of-way, or
 property lines.
- Review and approve site design drawings within 14 calendar days of submission by Motorola Solutions or its subcontractor(s). Should a re-submission be required, MDFR shall review and approve the re-submitted plans within 14 calendar days from the date of submittal.
- Pay for the usage costs of power, leased lines and generator fueling (except for first fill of new generators) both during the construction/installation effort and on an on-going basis.
- Pay for application fees, taxes and recurring payments for lease/ownership of the property.
- Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by Motorola Solutions.
- As applicable (based on local jurisdictional authority), MDFR will be responsible for any installation or up-grades of the electrical system in order to comply with NFPA 70, Article 708.
- Provide property deed or lease agreement, and any existing boundary surveys, along with
 existing as-built drawings of the site and site components to Motorola Solutions for
 conducting site engineering or new sites and existing sites as required. Provide a right of
 entry letter from the site owner for Motorola Solutions to conduct field investigations.
- Negotiate with the site, tower or building owner for equipment placement, electrical and grounding required on protected generator power, HVAC required to keep equipment cool, antenna and microwave dish placement as well as routing of coax.
- For logistics purposes MDFR will be involved with Motorola Solutions project manager to
 work with site owners for construction schedules, access to place equipment on roofs and in
 facilities and access to elevators and stairways for this purpose.
- Maintain existing access road in order to provide clear and stable entry to the site for heavyduty construction vehicles, cement trucks and cranes. Sufficient space must be available at the site for these vehicles to maneuver under their own power, without assistance from other equipment.
- Arrange for space on the structure for installation of new antennas at the proposed heights on designated existing antenna-mounting structures.
- Provide existing as-built structural and foundation drawings of the structure for Motorola Solutions to conduct a structural analysis.
- Allow for use of the existing support facilities for the antenna cables (cable ladder, entry
 ports, waveguide bridge) from the antenna to the equipment room on existing rooftops and

- existing tower locations and negotiate with site owners for installation and placement of this equipment so that it can be achieved by the project team.
- Allow for use of the existing support facilities for the antenna cables (cable ladder, entry
 ports, waveguide bridge) from the antenna to the equipment room on existing rooftops and
 existing tower locations and negotiate with site owners for installation and placement of this
 equipment so that it can be achieved by the project team.
- Pay for any upgrade of the supporting structure (wall or tower) whether it be on a rooftop or an existing tower as necessary to accommodate the new antennas and dishes.
- Order power connection to new sites with the power provider and disconnect within the property line where the proposed equipment room is being located.
- On roofteps confirm that the building owner does not have an issue with the existing generator will be used to support any new or additional equipment and ancillary equipment loads.
- If required, MDFR will negotiate with existing building or tower owner for the removal of or relocation of existing facilities, equipment, or utilities to create space for the new site facilities and equipment.
- If required, provide any structural improvement necessary to house the equipment in the existing room.
- MDFR rescue will acquire access and approval to locate on the tower with their lines, antennas and dishes as well to use the existing shelter.

Assumptions Associated with MDFR Sites:

- All direct recurring and non-recurring utility costs [including, but not limited to, generator fuel (except first fill), electrical, Telco or use of Fiber] will be borne by MDFR.
- All utility installations shall be coordinated by Motorola Solutions, ordered by MDFR, and located at jointly agreed to location within or around the new communications shelter or equipment room.
- MDFR shall provide utility transformer, transformer upgrades, line, or pole extensions.
- Ensure hazardous materials are not present at the work location. Testing and removal of hazardous materials, found during site investigations, construction or equipment installation will be the responsibility of MDFR.
- MDFR shall ensure that no improvements are required for concrete trucks, drill rigs, shelter delivery, and crane access.
- MDFR shall ensure that the existing ground system and soil resistivity at the site is sufficient to achieve resistance of 10-ohms or less. Communication site grounding will be designed and installed per Motorola Solutions' R56 standards.
- MDFR shall ensure that the existing site has adequate room to expand and install the shelter, including lay-down and staging areas, without encroaching on wetlands, easements, setbacks, rights-of-way, or property lines assuming new fire stations are not built or under construction.
- AM tuning has not been included as a part of this scope of work. If it is required by the FCC
 for any reason to the parties shall negotiate a change order for the tuning effort required by
 FCC on AM towers. MDFR shall ensure that structural and foundation drawings of the
 antenna support structure will be made available to preclude the need for ultrasonic testing,
 geotechnical borings or mapping of existing tower structural members for sites not owned by
 or controlled by MDFR or Miami-Dade County.
- The new shelter can be located within 20-feet of the existing tower location and the generator/fuel tank can be located within 25-feet of the shelter.
- Restoration of the site surroundings by fertilizing, seeding, and strawing the disturbed areas will be adequate. Any trenches caused by heavy equipment will be graded.

- MDFR shall ensure that the new sites (FS18, FS71 and FS72) will have adequate utility service to support the proposed equipment loading. Utility transformer upgrades or step-up or down transformers will not be required.
- MDFR shall ensure that underground utilities are not present in the construction area and as such, no relocation will be required.
- MDFR shall ensure that the tower or supporting structure meets all applicable EIA/TIA-222 structural, foundation, ice, wind, and twist and sway requirements. Motorola Solutions has not included any cost for structural or foundation upgrades to the antenna support structure but has included scope and cost to conduct tower mapping and structural analysis as provided on a site-by-site basis in the scope.
- Alarming at existing sites will be configured per the MOSCAD matrix. As required at lease
 sites and building roof tops MDFR, in conjunction with the Motorola Solutions PM, will be
 required to work with site owner to finalize upgrades and approvals as required to ensure
 that work, upgrades and engineering have been approved by the site owners prior to
 Motorola Solutions conducting said work.
- Maintain existing access road in order to provide clear and stable entry to the site for heavyduty construction vehicles, cement trucks and cranes. Sufficient space must be available at the site for these vehicles to maneuver under their own power, without assistance from other equipment.
- As required at lease sites and building roof tops MDFR will be required to work with site
 owner to finalize approvals as required to ensure that work, and engineering have been
 approved by the site owners prior to Motorola Solutions conducting said work.
- Foundations for the compound, shelter, generator and fuel tank are based "normal soil" conditions as defined by TIA/EIA 222-H. Footings deeper than 30-inches, raised piers, rock coring, dewatering, hazardous material removal or wetland mitigation. Motorola Solutions' pricing is conditioned upon the ability of Motorola Solutions to complete the project at the prices set forth herein.
- Motorola Solutions, on the 12th month after Notice to Proceed (or Purchase Order) from the County, may request a one-time price adjustment for construction costs, valued at \$12,500,000.00. Utilizing the Consumer Price Index (CPI), percentage change calculation shall be performed using the U.S. Department of Labor, Consumer Price Index, "All Items," Unadjusted Urban Areas (CPI-U): https://www.bls.gov/regions/mid-atlantic/data/consumerpriceindexhistorical_us_table.htm Should the inflation rate increase greater than 4% during the 12-month after NTP/PO, Motorola shall have the right receive a price increase for the amount of construction costs that exceed 4%. Motorola shall receive this cost relief from the County by way of a change order.

5.8.1 Install Fixed Network Equipment

Motorola Solutions Responsibilities:

- Motorola Solutions shall be responsible for the installation of all fixed equipment contained in
 the equipment list and outlined in the System Description based upon the agreed to floor
 plans, at the sites where the physical facility improvement is complete, and the site is ready
 for installation. All equipment will be properly secured to the floor and installed in a neat and
 professional manner, employing a standard of workmanship consistent with its own R56
 installation standards and in compliance with applicable National Electrical Code (NEC),
 EIA, Federal Aviation Administration (FAA)/Transport Canada, and FCC standards and
 regulations/Industry Canada.
- For installation of the fixed equipment at the various sites, Motorola Solutions will furnish all cables for power, audio, control, and radio transmission to connect the Motorola Solutions-

supplied equipment to the power panels or receptacles and the audio/control line connection point.

- During field installation of the equipment, any required changes to the installation will be noted and assembled with the final 'as-built' documentation of the system.
- Receive and inventory all equipment. Provide warehousing for equipment as shipped.
- Bond the supplied equipment to the site ground system in accordance with Motorola Solutions' R56 standards.

Motorola Solutions shall provide initial equipment storage, up to six months for each sub-project. Equipment ship dates will be agreed upon between Motorola Solutions and MDFR, if the equipment cannot be delivered to its destination within 6-months, due to "no fault" by Motorola Solutions, MDFR shall pay for the additional storage cost. If equipment cannot be delivered to its destination, due to Motorola Solutions delays the storage costs shall be Motorola's responsibility.

Aventura Hospital:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Six (6) GTR 8000 Base Radios.
- Two (2) TX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- TX / RX Antenna System added to Emergency Room area.
- One (1) SDM3000 RTU.
- Six (6) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- ASM Monitoring.

Fire Station 18:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Six (6) GTR 8000 Base Radios.
- Two (2) TX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Six (6) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Onan Cummins generator.
- 199-foot Self-Supporting Lattice Tower.
- ASM Monitoring.

Fire Station 71 (Eureka):

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios.
- Two (2) TX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Onan Cummins generator.
- 199-foot Self-Supporting Lattice Tower.
- ASM Monitoring.

Fire Station 72 (Florida City):

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios.
- Two (2) TX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- 48 VDC Plant.
- New Communications Shelter & Onan Cummins generator
- 199-foot Self-Supporting Lattice Tower.
- ASM Monitoring.

PortMiami:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Nine (9) GTR 8000 Base Radios.
- Three (3) UHF and one (1) VHF TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) UHF RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Two (2) Discone Antennas.
- One (1) SDM3000 RTU.
- Nine (9) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- ASE provided by MDFR.

- Conduits and dark fiber provided by Motorola Solutions.
- 48 VDC Plant.
- ASM Monitoring.

Homestead Air Reserve Base:

- One (1) Remote Site Gateway.
- One (1) Remote Site LAN Switch.
- Five (5) GTR 8000 Base Radios.
- Two (2) TX Metal Dipole Antenna(s) with associated Line, Connectors, Surge Suppression, etc.
- One (1) RX Metal Dipole Antenna with associated Line, Connectors, Surge Suppression, etc.
- Antenna System Monitoring.
- One (1) SDM3000 RTU.
- Five (5) MLC 8000s.
- One (1) Nokia SAR-8 Router.
- Microwave Backhaul.
- ASE provided by MDFR.
- Up to 200-feet of Conduit to meet AT&T.
- UPS.
- ASM Monitoring.

Antenna System Monitoring

Included in this purchase is the implementation of Antenna System Monitors (ASM) at the six new sites (Aventura, Port of Miami, and Fire stations 18, 71 and 72 and HAFB).

Motorola Solutions Responsibilities

- Sweep all antenna lines. (Any faulty antennas & lines will need to be replaced via a separate quote).
- Rack-mount the ASM and connect to MOSCAD or network for monitoring. MOSCAD and Monitoring service are not included in this scope.
- Insert ASM coupler between each antenna and combiner.
- Program the ASM.
- Optimize the antenna network and create a "known-good" baseline.
- Tweak thresholds to prevent false alarms from minor fluctuations.
- Interface to MOSCAD.
- Interface to Fire Network via NOKIA SAR-8.

MDFR Responsibilities:

None.

MOSCAD / UEM Alarms

Motorola Solutions shall add and install all connectable alarms to the six new MDFR sites (Aventura Hospital, PortMiami, Fire Stations 18, 71, and 72 and HAFB) to standardize the alarms across all sites. The alarm count will vary based on the equipment located at each site. Alarm contact cannot exceed the SDM limitation.

NOTE: Full alarming may not be achievable at sites not under control or ownership of MDFR.

NMO monitoring or FSO initiated service call outs are available outside of the scope of this project via the MDFR Maintenance Agreement.

Alive Antennas

Heavier duty mounting hardware is required for the metal dipole antennas. Structural analyses are included and are required at all of the sites that are changing from fiberglass antennas to metal dipole antennas. What is quoted for installation cost assumes a passing the structural analyses.

The below items are included in the following cost:

- Antennas (credit is given for failing Sindair antennas that were improperly mounted inverted).
- A credit will be given for anywhere that an Alive antenna cannot be mounted and a Fiberglass RFI antenna is installed as a substitute.
- Mounting Hardware:
 - Metal dipole antennas require different mounting hardware).
 - All antennas will have tiebacks where possible.
- Structural Analysis.
- Water Tower Mapping.
- Permitting.
- Mobilization & Installation Cost.
- Project Management.
- Central channel on dedicated antennas (MIA & CAB) will be configured to match the FCC ERP (maximum available, with a TPO of 110W).

Assumptions & Caveats:

- All pricing assumes a passing Structural Analysis.
- Failing structural analysis that require structural remediation will require a Change Order.
- Antennas mounted on Water Towers and Buildings will not have a top-mount antenna tieback.
- Antennas mounted on Monopoles where the height of the top of the antenna exceeds the structure's height will not have a top-mount tieback.
- Quote assumes three (3) mobilizations.
- Additional mobilizations driven by MDFR will add cost.
- Pricing for building sites assumes existing antenna mounts are uniform (dissimilar mounts will require additional structural analysis).
- Spare antennas will be stored at an MDFR location.
- For West Channel Build-out:
 - Motorola Solutions assumes combiner redesign will not require another antenna (MET HWT,).
 - Motorola Solutions assumes sites with rack space (as off 10-15-21) MET, HWT, HRT, BMH, CGFS3.
 - Sites without rack space (as off 10-15-21) and will require a wall mount that will not be ideal for servicing and require site owner approval (KEY. PFPL, CGFS3, FHP, FS4).
 - Motorola Solutions assumes power outlets are available and the HVACs are adequate.
 - Motorola Solutions will provide a new antenna/line and line at KEY, PFPL, HRT assuming a passing structural analysis.

 FS55 is maxed out and another antenna cannot be added we assume the combiner redesign will be sufficient.

Table 5-2: Summary of Sites - Sub-Optimal Antenna Replacements

Sites	Туре	Total Antennas	Expansion Ant.	TX Ant	RX Ant	Replace Bad	Invert Bad	Replace Working	Spare
AQ	Building	3	0	1	1	1	0	1	1
CAB	Building	6	1	4	1	2	0	3	0
CT	Building	1	0	0	1	1	0	0	0
FIU	Building	2	0	1	1	1	0	1	0
FS09	Monopole TWR	3	0	2	1	0	2	1	0
FS37	TWR Concrete Pole	2	0	0	1	0	1	0	1
FS55 *	Monopole TWR	0	0	1	1	0	0	0	0
FS68	Monopole TWR	3	0	2	1	0	2	1	0
FS69	Monopole TWR	1	0	0	1	1	0	0	0
HRT	Water TWR	3	0	2	1	1	0	2	0
HWT	Water TWR	4	0	3	1	1	0	3	0
IC	Guy Tower	2	0	1	1	2	0	0	0
MET	Building	5	0	3	1	2	0	2	1
MIA	Building	4	1	2	1	2	0	1	0
PT	Building	2	0	0	1	1	0	0	1

^{*}FS55 Antennas were covered in the project that is currently underway and are not being charged for as part of this project.

Cost of Antennas and Mounting Hardware

Table 5-3 below is the cost of the antenna hardware with credit applied to those sites for the Sinclair fiberglass antennas that were improperly installed inverted.

Table 5-3: Sub-optimal antenna summary.

Sites	New Antenna	New Antennas Price	Credit for Improperly Installed Sinclair Antennas	Cost to MDFR after Credit
HWT	GD4V80 Alive Dipole (Two Mounting points needed)	\$18,605.12	\$0.00	\$18,605.12
HRT	GD4V80 Alive Dipole (Two Mounting points needed)	\$14,203.84	\$0.00	\$14,203.84
FS09	GD4V80 Alive Dipole (Two Mounting points needed)	\$25,203.84	\$4,160.00	\$21,043.84
FS68	GD4V80 Alive Dipole (Two Mounting points needed)	\$25,203.84	\$4,160.00	\$21,043.84
FS69	GD4V80 Alive Dipole (Two Mounting points needed)	\$11,067.95	\$0.00	\$11,067.95
FS37	DSCOL410-470 RFI Collinear	\$15,469.23	\$2,080.00	\$13,389.23
MIA	GD4V80 Alive Dipole (Two Mounting points needed)	\$14,203.84	\$0.00	\$14,203.84

Sites	New Antenna	New Antennas Price	Credit for Improperly Installed Sinclair Antennas	Cost to MDFR after Credit
CAB	GD4V80 Alive Dipole (Two Mounting points needed)	\$23,673.07	\$0.00	\$23,673.07
MET	DSCOL410-470 RFI Collinear	\$23,339.73	\$0.00	\$23,339.73
AQ	GD4V80 Alive Dipole (Two Mounting points needed)	\$14,203.84	\$0.00	\$14,203.84
FS55	GD4V80 Alive Dipole (Two Mounting points needed)	\$12,000.00	\$0.00	FS55

Table 5-4: Summary of Sites - Site Types & Tiebacks

Sites	Type	Tiebacks
HWT	Water TWR	Water Tower – Tie backs not possible
HRT	Water TWR	Water Tower – Tie backs not possible
FS09	Monopole TWR	RX not possible (top of tower) / TX included
FS68	Monopole TWR	RX not possible (top of tower) / TX included
FS69	Monopole TWR	RX not possible (top of tower) * tiebacks
FS37	TWR Concrete Pole	Not needed / fiberglass antennas
MIA	Building	Likely not possible / antennas on top of roof, difficult to brace / affects antenna pattern
CAB	Building	Likely not possible / antennas on top of roof, difficult to brace / affects antenna pattern
MET	Building	Not needed / fiberglass antennas
AQ	Building	Likely not possible / antennas on top of roof, difficult to brace / affects antenna pattern
PT	Building	Likely not possible / antennas on top of roof, difficult to brace / affects antenna pattern
FIU	Building	Likely not possible / antennas on top of roof, difficult to brace / affects antenna pattern
FS55	Monopole TWR	RX not possible (top of tower) / TX included

Cost of Implementation

Below is the cost of the installation of the antennas including the below costs:

- Structural Analysis.
- Water Tower Mapping.
- · Permitting.
- · Mobilization & Installation Cost.
- Project Management.
- Mounting Hardware (metal dipole antennas require different mounting hardware).

Table 5-5: Summary of Sites - Sub-optimal Antenna Replacements

Sites	Installation Cost	Installation Credit	Cost to MDFR after Credit
HWT	\$28,037.23	\$0.00	\$28,037.23
HRT	\$28,037.23	\$0.00	\$28,037.23

Sites	Installation Cost	Installation Credit	Cost to MDFR after Credit
FS09	\$18,303.89	\$4,500.00	\$13,803.89
FS68	\$19,237.23	\$4,500.00	\$14,737.23
FS69	\$13,770.56	\$0.00	\$13,770.56
FS37	\$16,270.56	\$2,500.00	\$13,770.56
MIA	\$15,335.08	\$0.00	\$15,335.08
CAB	\$20,668.41	\$0.00	\$20,668.41
MET	\$23,468.41	\$0.00	\$23,468.41
AQ	\$23,468.41	\$0.00	\$23,468.41
FS55	\$8,826.67	\$0.00	\$8,826.67

Table 5-6: Summary of Sites – Legacy Antenna Replacements

Summary of Sites – Legacy Antenna Sites	Type	Total Antennas	TX Ant	RX Ant	Spare
CGFS3	Lattice Tower	1	0	1	0
СТ	Building	1	0	1	0
EWT	Building	1	0	1	0
FHP	Lattice Tower	1	0	1	0
FS04	Monopole TWR	1	0	1	0
FS36	Monopole TWR	3	2	1	0
FS54	Monopole TWR	2	1	1	0
HH	Building	2	1	1	0
HPD	Lattice Tower	1	0	1	0
HQ (Spares)		2	0	0	2
INT	Lattice Tower	2	1	1	0
JMH	Building	1	1	0	0
K&B	Lattice Tower	3	2	1	0
MDY	Lattice Tower	1	1	0	0
MIC	Lattice Tower	1	0	1	0
PFPL	Lattice Tower	1	0	1	0
PGH	Building	1	0	1	0
PSN	Lattice Tower	2	1	1	0
PT	Building	1	0	1	0
PVP	Lattice Tower	1	0	1	0
PYRD	Lattice Tower	1	0	1	0
RNAS	Lattice Tower	3	2	1	0
SDGC	Lattice Tower	1	0	1	0
SW	Monopole TWR	3	2	1	0
T41	Lattice Tower	3	2	1	0
TG	Lattice Tower	4	3	1	0
TGK	Building	3	2	1	0

Summary of Sites – Legacy Antenna Sites	Туре	Total Antennas	TX Ant	RX Ant	Spare
Total		47	21	24	2

Motorola Solutions will replace all existing UHF antennas unless otherwise noted. If any antennas were not accounted for, it will be Motorola Solutions' responsibility to provide and install them at no additional cost to MDFR.

Completion Criteria:

• Fixed Network Equipment installation completed and ready for optimization.

5.8.2 Fixed Network Equipment Installation Complete

All fixed network equipment installed and accepted by MDFR.

5.8.3 Microwave Installation

Motorola Solutions shall provide for seven (7) new individual hops to the existing microwave network. The topology below shows the seven (7) new microwave hops branching from the core ring sites and replacing a core tri-channel link from K&B to TG. The TG to MIC hop is proposed a single MPLS channel (OC3 Not included). Each microwave hop is designed as 30MHz/128QAM with a link capacity of 155Mbps. The design includes, three (3) 6 GHz MHSB, two (2) 6 GHz MHSB/SD and two (2) 11 GHz MHSB hops with the traffic being all Ethemet. Each site, where space exists, will get new equipment racks, IRU600v4 microwave radio, INUe with supporting modem cards (RAC 70), Ethemet cards (DAC GE3), and AUX cards modules as well as antennas, waveguide, dehydrators, batteries and chargers for the microwave equipment. Motorola Solutions will confirm with MDFR, site-by-site, whether equipment is installed in a new or existing rack.

Motorola Solutions shall provide for 15 new spur hops to the existing microwave network. The topology below shows the 18 proposed microwave hops branching from the core ring sites. Each microwave hop is designed as single 30MHz/128QAM channel with a link capacity of 155Mbps. The design includes, ten (10) 6GHz MHSB, one (1) 6GHz MHSB/SD and four (4) 11GHz MHSB hops with the traffic being all Ethemet. Each site will be provisioned with new equipment racks, IRU600v4 microwave radios, INUe's with supporting modem cards (RAC 70), Ethernet cards (DAC GE3), and AUX cards modules as well as antennas, waveguide, dehydrators, batteries and chargers for the microwave equipment.

5.8.4 Microwave Path Survey, Frequency Planning and Licensing

The microwave path survey shall include the following services:

- Identify geographical location of sites and antenna, waveguide length and tower requirements.
- Verify path clearance objectives for each of the paths from existing or new tower locations.
- Document obstruction, critical points, and reflection points in each of the paths.
- Verify tower coordinates and site elevations.
- Establish coordinates and height requirements for new towers, as needed for governmental agency registration and licenses.

- Confirm antenna centerlines and waveguide length requirements. Catalog antennas on the
 existing structures noting any space limitations in the survey report. A review of the tower for
 new antenna design space limitations specific to this project only but will not perform a
 complete tower audit.
- Perform frequency coordination based on available FCC records to reduce the potential for interference between internal or external radio sources on a given system or network.
- Prepare the FCC License Application Form 601 with the appropriate technical data.
 Information such as site location, radio type, and frequency will be listed. Aviat Networks will complete and submit the Construction Complete Form 601 online via FCC Universal Licensing System ("ULS").
- File Antenna Structure Registration ("ASR") form for towers over 200-feet.

The paths have been designed utilizing UXA6-U57AC and UXA4-U57AC (Ultra-High-Performance Dual-Polarization Antennas). Deploying Dual-Polarization antennas allows flexibility to deploy both vertical and horizontally polarized channels based on the results of frequency coordination and offers excellent side lobe suppression to help mitigate interference. The UXA6 series of antennas offers high XPD (Cross Polarization Discrimination) of 40 dB and with the high wind kit can support wind speeds up to 155-mph.

The system design and associated RF frequency plan as proposed is preliminary, subject to path survey verification, frequency coordination / FCC licensing and final path engineering results.

Design:

- Final equipment list.
- Final path calculations and path profiles.
- Site-specific diagram (RP's and wiring diagrams).
- DS0 traffic plans.
- DS1/DS3/OC3 traffic plans.
- IP traffic plans.
- NMS plan.
- Synchronization plan.
- DC power calculations.
- Traffic cutover plan and method of procedure.
- Field acceptance test plan.

Installation Services:

At each location as described in the system description, the following will be provided and installed:

- Antenna system.
- Transmission line.
- Hanger kits and ground kits.
- Waveguide or coax boots at entry plates.
- Lightning protector at entry points.
- Bracing supports.
- Pressurization equipment.
- Terminate and label waveguide or coax runs.
- Indoor equipment and rack.
- Antenna alignment.
- Standard tower leg pipe mounts.

- Any required steel support members for side braces.
- Antennas and radomes at specified centerlines.

Indoor Equipment and Rack Installation:

- Cable ladders or trays.
- New racks in specified locations.
- · Bracing supports.
- Pressurization equipment.

AC/DC Power Equipment and/or Ground Installation:

- Provide and install DC circuit breakers to support Aviat Networks equipment.
- · Provide and install charger racks.
- Provide and install battery into charger rack or on floor as required.

Field Integration Services

- Integrate Aviat Networks microwave equipment.
- Integrate rack ground-to-ground distribution in shelter.
- Integrate DC wiring to specified distribution panels.
- Integrate payload wiring to designated demarcation.
- Integrate Ethernet wiring to designated demarcation.
- Integrate alarm contacts to designated demarcation.
- Integrate battery wiring to designated chargers.
- Connect radio antenna ports to waveguide flex sections.
- Set dehydrator pressure to 4psi.
- Install and integrate NMS software into Motorola Solutions' radio network as required.
- Customize NMS alarm designations.

Antenna testing Services at each location will include the following:

- Perform antenna system test.
- Measure return loss and distance-to-fault of waveguide terminated at antenna within antenna frequency range.
- Verify airtightness, by turning pressurization valve off for 4 hours and measuring pressure drop on each line (<0.5 PSI).
- Perform DC power system test.
- Measure charger floating/equalization voltages.
- Measure voltages on each battery cell.
- Verify charger/battery switching.
- Perform microwave equipment test.
- Perform transmit power output test.
- Perform receive signal level test.
- Perform receiver threshold (fade margin) test.
- Perform transmitter/receiver switching test.
- Perform Layer 1 link aggregation test.
- Perform Ethernet test.
- Perform AUX alarm/data card test.
- Perform dehydrator test.
- Perform 1-hour BER test on primary radio and 1-hour BER test on standby radio.

System Test:

Perform network continuity test.

- Perform 12-hour BER test on primary side.
- · Perform 12-hour BER test on standby side.
- Schedule cutover of all complete traffic immediately following installation.
- Transfer circuit wiring.
- Verify integrity of circuits being cutover.
- Perform traffic cutover.

MDFR Responsibilities:

None.

Completion Criteria:

Microwave Equipment installation completed, and system optimized.

5.8.5 DC Installation

The sites that have quoted 48V DC power systems will have the following installation tasks completed.

Table 5-7: 48v DC sites.

Need Title	
Aventura	
FS 09	
FS 18	
FS 36	
FS 54	
FS71 (Eureka)	
FS72 (Florida City)	
HH	
HMS (Vislink only)	
K&B	
PortMiami	
SW	
TG	
TGK	

- 1. Install one (1) Eltek 500A Flatpack2 DC power system and secure to the cement floor.
- 2. Install up to three (3) 48V SBSXL Enersys Battery strings on battery trays located in same rack as the DC Power System.
- Install one (1) 12KVA Inverter on DC System. Cable with two (2) #2/0 AWG cable per
 polarity to provided breakers on DC System distribution. Each cable not to exceed 10feet each. Equipment that can be powered by 48v DC will be powered by DC.
 - A. Equipment Directly Powered by DC:
 - i. GTR8000.
 - ii. MPLS.
 - iii. MLC8000 (AGU).
 - iv. MOSCAD SDM.

- v. TRAK (GPS).
- vi. GGM8000.
- B. Equipment Directly Powered by an AC Inverter:
 - i. GPW8000.
 - ii. QUANTAR.
 - iii. Other TX GE Radio.
 - iv. Tenser (Channel Bank).
 - v. MLC8000.
 - vi. VGU.
 - vii. Hospital RX Radios.
 - viii. Control Station.
 - ix. Test Mobile.
 - x. Audio Bridge.
 - xi. CSCI.
 - xii. Switch.
 - xiii. Fiber Link.
 - xiv. ASE Avaya Switch.
 - xv. APM.
 - xvi. ASTRO-TAC Voter.
- 4. Test Equipment.
- 5. Install one (1) #4/0 System Ground cable from the DC Power System to the Master Ground Bar on Eltek provided auxiliary brackets. It is also assumed that Maximum cable length not to exceed 35-feet total per cable.
- 6. Install one (1) #1/0 Aisle Ground Feeder cable from the MGB to the Power System rack. Maximum cable length not to exceed 35-feet total.
- 7. Install one (1) #2AWG Frame Ground whips down to the lower part of the power system rack. Maximum distance for each cable not to exceed 10-feet.
- 8. Install #2AWG Frame Ground whips for the Power System relay rack, Rectifier Chassis, inverter and battery trays to the #1/0 Aisle Ground Feeder via H-Tap connection. Each cable length not to exceed 3-feet total.
- 9. Install six (6) 100A circuits inside corrugated tubing on top ladder rack from DC power system to Trimm breaker panels mounted in rack. One (1) 2AWG cable per polarity for each circuit. Each cable not to exceed 35-feet.
- 10. Install two (2) 10A and two (2) 5A circuits from Trimm breaker panels mounted in rack down to equipment within the same rack. One (1) 14AWG cable per polarity for each circuit. Each cable not to exceed 10-feet.
- 11. Install six (6) 30A circuits from Trimm breaker panels mounted in rack down to equipment within the same rack. One (1) 10AWG cable per polarity for each circuit. Each cable not to exceed 10-feet.
- 12. Provide and install four (4) 30A AC circuits to new rectifier system. Circuits shall be connected with seal-tight flex connection from jBox located above equipment rack. Circuits will be installed in metal conduit back to the panel. Circuits will be original from existing panel within 35-feet.
- 13. Provide and install two (2) new 70A, 120VAC feeders from existing panelboard to new inverter.
- 14. Provide and Install one (1) new 100A panelboard for the load circuits of new inverter. The new panel shall be mounted on the nearest available wall space to the rack

containing the new inverters. The panel shall be fed with a 100A 120V circuit from the inverters. Cable length not to exceed 35-feet. No load wiring from new panel is included.

- 15. Permit fees for AC work is included. Detailed engineering drawings are included.
- 16. Install alarm cabling from DC Power system to MOSCAD.
- 17. Install Flatpack2 rectifiers and blank covers.
- 18. Turn up DC Power System; adjust/verify proper settings, operation, and provide report to MDFR

5.8.6 System Installation Acceptance (Milestone)

All equipment installations are completed and accepted by MDFR.

5.9 SYSTEM OPTIMIZATION

5.9.1 Optimize System FNE

Motorola Solutions Responsibilities:

- Motorola Solutions and its subcontractors optimize each subsystem.
- Verify that all equipment is operating properly, and that all electrical and signal levels are set accurately.
- Verify that all audio and data levels are at factory settings.
- Check forward and reflected power for all radio equipment, after connection to the antenna systems, to verify that power is within tolerances.
- Check audio and data levels to verify factory settings.
- Verify communication interfaces between devices for proper operation.
- Test features and functionality are in accordance with manufacturers' specifications and that they comply with the final configuration established during the CDR/system staging.

MDFR Responsibilities:

None.

Completion Criteria:

System FNE optimization is complete.

5.9.2 Link Verification

Motorola Solutions Responsibilities:

 Perform test to verify site link (Microwave and ASE) performance, prior to the interconnection of the Motorola Solutions-supplied equipment to the link equipment.

Completion Criteria:

Link verification successfully completed.

5.9.3 Optimization Complete

 System optimization is completed. Motorola Solutions and MDFR agree that the equipment is ready for acceptance testing.

5.10 TRAINING

Motorola Solutions Responsibilities:

No training has been included in this scope of work.

5.11 AUDIT AND ACCEPTANCE TESTING

5.11.1 Perform R56 Installation Audit

Motorola Solutions Responsibilities:

- Perform R56 site-installation quality audits, verifying proper physical installation and operational configurations.
- Create site evaluation report to verify site meets or exceeds requirements, as defined in Motorola Solutions' <u>Standards and Guidelines for Communication Sites</u> (R56).

MDFR Responsibilities:

· Witness tests at MDFR's option.

Completion Criteria:

All R56 audits successfully completed.

5.11.2 Perform Equipment Testing

Motorola Solutions Responsibilities:

- Test individual components of the system to verify compliance to the equipment specifications.
- Repeat any failed test(s) once Motorola Solutions (or MDFR) has completed the corrective action(s).
- Prepare documentation of component tests to be delivered as part of the final documentation package.

MDFR Responsibilities:

· Witness tests at MDFR's option.

Completion Criteria:

Successful completion of equipment testing.

5.11.3 Perform Functional Testing

Motorola Solutions Responsibilities:

- Verify the operational functionality and features of the individual subsystems and the system supplied by Motorola Solutions, as contracted.
- If any major task as contractually described fails, repeat that particular task after Motorola Solutions determines that corrective action has been taken.
- Document all issues that arise during the acceptance tests.
- Document the results of the acceptance tests and present to MDFR for review.
- Resolve any minor task failures before Final System Acceptance.

Note: No coverage testing has been included.

MDFR Responsibilities:

Witness tests at MDFR's option.

Completion Criteria:

- Successful completion of the functional testing.
- MDFR approval of the functional testing.

5.11.4 System Acceptance Test Procedures (Milestone)

MDFR approves the completion of all the required tests.

5.12 FINALIZE

5.12.1 Cutover

Motorola Solutions Responsibilities:

- Motorola Solutions and MDFR develop a mutually agreed upon cutover plan(s) based upon discussions held during the CDR.
- During cutover, follow the written plan and implement the defined contingencies, as required.
- Conduct cutover meeting(s) with user group representatives to address both how to mitigate technical and communication problem impact to the users during cutover and during the general operation of the system.

MDFR Responsibilities:

- Attend cutover meetings and approve, at MDFR's discretion, the cutover plan.
- Notify the user group(s) affected by the cutover (date and time).
- Conduct a roll call of all users working during the cutover, in an organized and methodical manner.

Completion Criteria:

• Successful migration from the old system to the new system.

5.12.2 Resolve Punchlist

Motorola Solutions Responsibilities:

Work with MDFR to resolve punch list items documented during the Acceptance Testing
phase, in order to meet all the criteria for final system acceptance.

MDFR Responsibilities:

 Assist Motorola Solutions with resolution of identified punch list items by providing support, such as review and approval of the resolved punch list item(s).

Completion Criteria:

All punch list items resolved by Motorola Solutions and approved by MDFR.

5.12.3 Transition to Service/Project Transition Certificate

Motorola Solutions Responsibilities:

- Review the items necessary for transitioning the completed portions of the project to warranty support and service.
- Provide a MDFR Support Plan detailing the warranty and post-warranty support, if applicable, associated with the Contract equipment.
- Provide a Transition to Service Certificate when subsystem has been installed and tested.

MDFR Responsibilities:

Participate in the Transition Service/Project Transition Certificate (PTC) process.

Completion Criteria:

All service information has been delivered and approved by MDFR.

5.12.4 Finalize Documentation

Motorola Solutions Responsibilities:

- Provide as-built system manual in electronic form, both native files and PDF format. The documentation will include the following:
 - System-Level Diagram.
 - Site Block Diagrams.
 - Site Floor Plans.
 - Site Equipment Rack Configurations.
 - Antenna Network Drawings for RF Sites.
 - ATP Test Checklists.
 - Antenna Sweeps.
 - Functional Acceptance Test Plan Test Sheets and Results.
 - Equipment Inventory List (including serial numbers).
 - Structural Analyses / Material Testing i.e., Concrete.
 - Permit / Inspection Documents Signed.
 - Entitlements & Codes.

Drawings are created utilizing AutoCAD design software and will be delivered in PDF format. All other system manual documents converted from native format to PDF format to be provided.

MDFR Responsibilities:

Receive and approve all documentation provided by Motorola Solutions.

Completion Criteria:

All required documentation is provided and approved by MDFR.

5.12.5 Final Acceptance (Milestone)

- All deliverables completed, as contractually required.
- Final System Acceptance received from MDFR.

5.13 APX NEXT PORTABLES, APX MOBILES & SIERRA WIRELESS MODEMS

This Statement of Work (SOW) defines the principal activities and responsibilities of all parties for implementing the APX NEXT Portable radios and APX mobile radios. Motorola Solutions shall deliver the proposed APX NEXT Portable radios and APX Mobile radios directly to an MDFR designated location. This SOW can be used by the MDFR Communications Division to guide the deployment process and coordinate the activities of Communications Division resources and teams. Motorola Solutions' project manager will work closely with MDFR's project manager during the detailed design review to clearly communicate the required deployment activities and schedule tasks involving MDFR resources.

The scope of the subscriber equipment project is limited to supplying the contracted equipment and software as described herein. Motorola Solutions will be responsible for all programming and installation of the 100 mobiles and 2300 portables.

5.13.1 Subscriber Installation

5.13.1.1 Program and Install Mobiles & Sierra Wireless Modems

Motorola Solutions Responsibilities:

- Program test mobiles with each template version and activate them on the system.
- · Pass all features and functionalities of the mobile template.
- Program all the mobiles, as identified in the equipment list, in accordance with MDFRapproved programming templates, client software, and fleet map.
- Install all the mobiles in the vehicles, as identified in the equipment list, and according to the installation schedule.
- Re-terminate existing antenna cables to change from Mini-UHF to QMA connectors to connect to the APX 8500 mobiles. In cases where the cable may not be long enough, an adapter cable may be used to make the connection.
- The following guidelines shall be utilized during installation:
 - Installations utilize the standard mobile mounting hardware provided with the type of unit.
 - Obtain main power leads from a voltage source as supplied in the mobiles.
 - Permanently mount the antennas on each vehicle according to the approved prototype, appropriate for the vehicle type. Install the antennas close to the same location as the existing antennas, where practical, in vehicles that already have antennas installed. Install the antennas on the roof, where practical, on the new antenna installations.
 - The radio shop will determine an alternative location whenever the antennas cannot be installed on the roof.
 - Plug the old antenna hole with an appropriate NMO rubber metal cap over the existing NMO connector plug if the antenna requires a new location on the vehicle. The existing cable will remain in place.
 - Remove the existing mobiles from the vehicles at the time of installation of new radios (if included).
- Deliver units to authorized MDFR personnel.

MDFR Responsibilities:

Approve Mobile programming.

5.13.1.2 Program and Distribute Portables

Motorola Solutions Responsibilities:

- Upon receipt of portables, a MDFR-authorized signatory acknowledges receipt of all
 portables and accessories and proper operation of a sampling of portables.
- Distribute the portables to end users.
- Program test portables with each template version and activate them on the system.
- Program all the portables, as identified in the equipment list, based upon MDFR approved programming templates, client software, and fleet map.
- Deliver units to authorized MDFR personnel.
- Input all radio data, including but not limited to alias, radio ID, ESN, IMEI etc. into MCM.
- Input all radio data, including but not limited to alias, radio ID, ESN, IMEI etc. into the Motorola Provisioning Manager.
- Provision APX NEXT radios for end-user operation and deployment via Radio Central.
- Provision APX NEXT radios and CommandCentral Aware for Mapping and Messaging.

MDFR Responsibilities:

• Approve APX NEXT Portable programming.

5.13.1.3 Cutover

MDFR Responsibilities:

- MDFR will develop a cutover plan based upon discussions held during the CDR.
- During cutover, follow the written plan and implement the defined contingencies, as required.
- Conduct cutover meeting(s) with user group representatives to address how to mitigate technical and communication problems impact on users during cutover and general operation of the system.
- Notify the user group(s) affected by the cutover (date and time).
- Conduct a roll call of all users working during the cutover, in an organized and methodical manner
- Ensure that all Subscriber users are trained and the Subscribers have been activated on the system.
- Input subscriber information into the system database for activation.

Motorola Solutions Responsibilities:

- Provide support and materials to assist MDFR in the development of end-user training.
- Develop a transition plan to migrate to the new radio platform.

5.13.1.4 Transition to Service/Project Transition Certificate

Motorola Solutions Responsibilities:

- Review the items necessary for transitioning the project to warranty support and service.
- Provide a Customer Support Plan detailing the warranty and post-warranty support, if applicable, associated with the Contract equipment.
- Provide serial numbers, ESN's and IMEI#'s (where applicable) for all subscriber equipment being sold.

MDFR Responsibilities:

• Participate in the Transition Service/Project Transition Certificate (PTC) process.

Completion Criteria:

• All service information has been delivered to and approved by MDFR.

5.13.1.5 APX NEXT Portable Radios Warranty Services

The APX NEXT Portable radios include Motorola Solutions' APX NEXT Device Managed Service with Accidental Damage Plan. This plan includes:

- Standard Hardware Repair
- RadioCentral cloud-based tool with batch programming capabilities.
- MyView portal with device service dashboards.
- Device Software Maintenance.
- Technical Support.
- Comprehensive Hardware Repair of Accidentally Damaged radios.

The plan is effective for ten years (from date of initial field programming or six months after shipment date from our factory, whichever comes first) and can be renewed by MDFR on an annual basis. Field labor will be covered by the subscriber technicians. The APX NEXT Device Managed Service with Accidental Damage Plan includes coverage for internal and external components damaged due to a manufacturer's defect as well as coverage for any physical damage that occurs. For damage to a device that is not repairable, a new replacement device will be provided once per year. Motorola will provide flexibility to the agency in order to create a universal start of warranty date for all portable radios.

For more details on Service SOW, refer to Section 3.1

5.13.1.6 APX Mobile Radio Warranty Services

In addition to our standard warranty, the APX mobile radios include a 5-year essential service program, which covers hardware repairs at our depot. This plan is effective from date of shipment from our factory. Field labor will be covered by the subscriber technicians. Motorola will provide flexibility to the agency in order to create a universal start of warranty date for all mobile radios. For more details on Service SOW, refer to Section 3.2.

5.13.1.7 Finalize Documentation

Motorola Solutions Responsibilities:

• Provide an operator manual with each subscriber.

MDFR Responsibilities:

Receive and approve all documentation provided by Motorola Solutions.

Completion Criteria:

All required documentation is provided to and approved by MDFR.

5.14 PROJECT ADMINISTRATION

5.14.1 Project Status Meetings

Motorola Solutions Responsibilities:

- Motorola Solutions Project Manager, or designee, will attend all project status meetings with MDFR, as determined during the CDR.
- Record the meeting minutes and supply the report to attendees within 48-hours.
- · The agenda will include the following:
 - Overall project status compared to the Project Schedule.
 - Product or service-related issues that may affect the Project Schedule.
 - Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
 - Any risks or miscellaneous concerns of identified by either MDFR or Motorola Solutions.

MDFR Responsibilities:

- Attend meetings.
- Respond to issues in a timely manner.

Completion Criteria:

· Completion of the meetings and submission of meeting minutes.

5.14.2 Preliminary Project Schedule

The project schedule details the projected timeline for completing the required tasks to successfully implement the capital improvements as noted above. During the Contract Design Review meeting following contract award, Motorola Solutions' Project Manager will present a baseline project schedule to MDFR based upon knowledge and timeline goals learned during the Kickoff Meeting with MDFR. The baseline schedule will be updated regularly during project implementation and will be provided to MDFR's Project Manager in an agreed-upon format. Motorola Solutions and MDFR will work together to identify all project responsibilities for the successful completion of the project.

5.14.3 Progress Milestone Submittal

Motorola Solutions Responsibilities:

Submit progress (non-payment) milestone completion certificate/documentation.

MDFR Responsibilities:

 Approve milestone as warranted, which will signify confirmation of completion of the work associated with the scheduled task.

Completion Criteria:

MDFR approval of the Milestone Completion document(s).

5.14.4 Change Order Process

 Either Party may request changes within the general scope of this Agreement. If a requested change causes an increase or decrease in the cost, change in system configuration or adds time to the project's timeline required to perform this Agreement, the Parties will agree to an equitable adjustment of the Contract Price, Performance Schedule, or both, and will reflect the adjustment in a change order which shall be reduced to writing. Neither Party is obligated to perform requested changes unless both Parties execute a duly approved written change order.

5.15 ADDITIONAL ASSUMPTIONS AND NOTES

5.15.1 Warranty and Service Response

- Motorola Solutions Infrastructure. Items related to the Motorola Solutions RF infrastructure are covered by a one-year warranty, which starts from date of acceptance. During the warranty period Motorola's field service organization (FSO) will respond to service calls on a 24 x 7 x 365 basis. All other conditions of Motorola's Standard Warranty apply.
- Aviat Microwave Subsystem. Motorola Solutions (or its subcontractors) will furnish and
 install the Aviat microwave sub-systems described in Section 2.2. Upon acceptance of each
 microwave link the standard warranty from Aviat will begin and the link will be turned over to
 the Miami-Dade Information Technology Department (ITD) to provide on-going maintenance
 and response.
- Vislink Video Receiver Subsystem. Motorola Solutions will furnish and install the Vislink video receiver sub-system described in Section 6. Vislink was specified by MDFR. Warranty service, associated service call-outs, hardware maintenance and lifecycle services associated with this subsystem are not included. These services will be invoiced separately as annual maintenance through Motorola.

5.15.2 Installation Assumptions

- Mobile Radio Installation. This mobile installations require that mobile radio removal, programming and installation will be performed by the dedicated FSO subscriber technicians that are currently contracted by MDFR. It is anticipated that this work will consist of swapping the APX7500 trunk mounted unit (the "brick") with a brick from the APX8500 radio and associated programming.
- Sierra Wireless LTE Modem and Antenna Installation. The Sierra Wireless installations
 includes the programming and installation of the proposed LTE modems and associated
 antennas. This work will be performed by personnel other than the dedicated FSO
 subscriber technicians.

5.15.3 Lifecycle Support

- Motorola Solutions Infrastructure. Motorola Solutions products are supported through the end of their published support windows when maintained under applicable maintenance and lifecycle plans. These windows will be reviewed with MDFR on an annual basis.
- Third-party Equipment. Since Motorola Solutions does not control the lifecycle plans for
 the third-party products furnished, we cannot make specific promises with respect to thirdparty support. Motorola Solutions will work with our third-party vendors to understand their
 lifecycle plans, communicate them to MDFR, and work with MDFR to create a suitable
 support plan for such third-party products.

SECTION 6

VISLINK INFRASTRUCTURE SOLUTION, INSTALLATION & MAINTENANCE

6.1 SOLUTION DESCRIPTION

Motorola Solutions shall provide a comprehensive wide-area 4-channel, 6.5 GHz airborne downlink receive network for MDFR and Miami-Dade County. The network is comprised of seven (7) fixed remote site locations. These locations are currently identified as (1) Acqualina Condo, (2) Palmetto Hospital, (3) Jackson Hospital, (4) Metropolis Condo, (5) South Dade Government, (6) Homestead Speedway, and (7) Miccosukee Village.

This concept of multiple interconnected fixed receive sites, allows any four aircraft outfitted with a compatible Vislink 6.5 GHz RF transmitter, to maneuver throughout the covered area, where the signal from each site is routed, then aggregated by the centralized system.

The result, like a modern mobile telephone network, allows multiple aircraft to autonomously maneuver throughout a region, while providing a contiguous video image to the Genetec content distribution server. The Genetec solution is not included and is required to be provided at MDFR site.

The video receive solution is manufactured by Vislink and shall be provided by Motorola Solutions along with the installation and civil scope detailed below.

6.2 STATEMENT OF WORK

Motorola Solutions shall acquire and install a Vislink air-to-ground radio video streaming solution as per manufacturer instructions. The installation is for the site equipment and does not include any helicopter or boat installations. The sites are noted in Table 6-1 below, if any sites change, the installation tasks and requirements may change and may therefore necessitate a change order.

Table 6-1: Vislink Sites

Site Name	Major Equipment	9.15
Acqualina Condo	Fixed Ground Receive Site	
Palmetto Medical Center	Fixed Ground Receive Site	
Jackson Memorial Hospital	Fixed Ground Receive Site	
Metropolis Condo	Fixed Ground Receive Site	
South Dade Government Center	Fixed Ground Receive Site	
Homestead Raceway	Fixed Ground Receive Site	
Miccosukee Tower	Fixed Ground Receive Site	

The document delineates the general responsibilities between Motorola Solutions and MDFR regarding this Section 6.

6.3 MOTOROLA SOLUTIONS RESPONSIBILITIES

Motorola Solutions' general responsibilities include the following:

- Install the Motorola Solutions provided equipment as detailed in the Equipment List Section.
- Perform the site development work as detailed in the Civil Statement of Work Section.
- · Configure the Motorola Solutions existing network elements.
- Schedule the implementation in agreement with MDFR.
- Coordinate the activities of all Motorola Solutions subcontractors under this contract.
- Assist with frequency coordination. The proposed frequencies are licensed, shared frequencies.
- Administer safe work procedures for installation.
- Perform an acceptance test plan for the solution provided.

6.3.1 Video Network Statement of Work

For purpose of clarification, all section 6.3.1 is subcontracted by Motorola Solutions to Vislink.

6.3.1.1 Receive Antenna System "A"

- Two types of receive antenna systems will be utilized on this project, depending on whether
 the site is a building or a communications tower structure. Other than the antenna
 configuration, all other
- The first type is components will remain the same.an integrated "pod" style antenna array, containing six (6) high-gain 60-degree sector antennas. This is one integrated unit and will be used in locations such as on top of a building, on the very top of a communications tower, where an unobstructed 360-degree view can be achieved from a single location. Each of the six (6) individual antennas inside the pod can be mechanically adjusted in elevation from 0 to 10 degrees upwards.
- The second type consists of six (6) individual, 60 degree, high-gain compact sector antennas. This configuration is used in locations such as a top of a building where antennas need to be located on corners of a penthouse, or on the side of a very tall tower, or where there is no need to be on the very top, or where utilizing a single pod array is not practical due to potential blockage from tower structural members.
- Each individual antenna comes with a vertical pipe interface mount that will allow for both azimuth and elevation adjustment.

- For individual sector antenna solutions, the antennas need to be positioned and pointed at azimuths of 0, 60, 120, 180, 240 & 300 degrees to achieve complete 360-degree coverage.
- Both the integrated sector pod array and the individual sector antennas have type-N female, 50-Ohm connections.
- · Antenna systems are included.

6.3.1.2 RF Cables "B"

- It is expected that CommScope LDF 4.5 -50, 5/8-inch 50-Ohm coax will be used between the antennas and outdoor CRx6 radio unit when cable runs are less than 20' in length. Signal loss at 6.5 GHz with a 20-foot length of this cable is approximately 2.0 dB.
- It is expected that CommScope LDF 4.5-50, 5/8-inch, 50-Ohm coax cable will be used between the antennas and outdoor CRx6 radio unit when the cable runs are longer than 20-foot in length. Signal loss at 6.5 GHz loss with a 75-foot length of this cable is approximately 3.0 dB.
- Increased RF signal loss due to excessive cable length may result in the loss in operational distance of the receive system.
- These cables will be individually grounded.
- RF lightning protection will be at the end of each coax cable, at the connection to the CRx6
 radio unit. No DC voltage will pass from the CRx6 to the antennas, so no voltage passthrough is necessary. The operating band for this lightning protection device is 6.425-6.525
 GHz.
- Coax, connectors, ground kits and support hardware for these six cable runs are included.

6.3.1.3 Outdoor Radio Unit Receiver - General "C"

- A 4-channel CRx6 integrated diversity radio unit is proposed. This 6-input integrated receiver unit will be positioned on the building or tower, near the antenna array system, to minimize RF loss at 6.5 GHz.
- The CRx6 diversity radio unit is the latest integrated receiver, allowing for remote monitoring and control of the radio unit via the MDFR IP data network.
- The radio unit has two flange areas that will allow it to be attached to a Motorola Solutionsprovided wall or tower mount.
- 6.5 GHs RF input to CRx6 radio unit is via (6) type-N female 50-Ohm connectors.
- The CRx6 RF radio unit and mount bracket and vertical pipe mount are included.
- A spare Outdoor Radio Unit has been included.

6.3.1.4 Outdoor Radio Unit Receiver - Connections "D. E. I & J"

- This radio unit is DC powered via a rack mount power supply and fed via outdoor rated, 2-conductor, 14 AWG SO cord. This wire is included, up to a length of 300'. Exact length for DC power wire used at each site to be determined, prior to assembly and provided. The power cable will come terminated on the "radio" end with a Mil Spec Canon type circular connector.
- The CRx6 radio unit is equipped with an internal optical fiber transceiver with the input/output being a twin pair of single-mode optical fiber.
- This single-mode optical fiber will be armored, flooded and outdoor rated, will be provided, up to a 400-foot length. Exact length for single-mode optical fiber cable at each site to be determined by Motorola Solutions, prior to assembly.
- Optical connector at CRx6 radio unit is LC plug type, are included.

 Support hangers, strain relief devices and electrical conduits to support and protect these two wire/cable/fiber runs are included.

6.3.1.5 Indoor Connections at Equipment Rack – Items "F, G, H & K"

- DC surge protection shall be used for the power cable to the outdoor CRx6 radio unit,
 48vdc, 2.5kA, inline protection unit both at the radio and at the rack inside are included.
- Rack mount CRx6 DC power supply unit will be installed in a 19-inch equipment rack, input voltage 120VAC, output voltage 48VDC. Electrical outlet requirement is one single 15A circuit. Either a rack mount UPS, or site backed-up power is preferred.
- The single-mode optical fiber run will terminate in the equipment rack and will be directly connected to the existing MDFR Nokia network switch via a single-mode fiber SFP module. This module to be specified by Motorola Solutions and is included.

6.3.1.6 Indoor Connections at Equipment Rack - Items "L & M"

- From each of the remote locations, the IP video output of the 4-channel CRx6 radio unit, as well as IP device control, will be connected to the existing MDFR Nokia network switch, via the SFP module as mentioned above.
- Network bandwidth of approximately 10 Mbps per channel, 40 Mbps total, is required from MDFR's existing data network between each remote site and central datacenter or EOC.

6.3.1.7 Centralized Datacenter Locations

- At MDFR's associated centralized datacenter or EOC location, for both FIRE & POLICE, the IP video from each of the seven (7) remote locations will be connected to a Vislink TSM-2020 aggregation/decoder unit, via MDFR's existing data network system.
- These aggregation/decoder units are identified as FIRE: CH-A & CH-B and POLICE: CH-C
 & CH-D and will each be located in the respective department's datacenter.
- Each unit will aggregate the appropriate streams from each remote site, whether CH-A & B, or C & D, and then present a single stream for each of the four channels.
- Aggregation/decoder units also put out an HDMI, HD-SDI and IP signal that can be connected to a separate video wall or monitor in the respective EOC areas for direct viewing.
- The FIRE aggregation/decoder unit, CH-A & CH-B, will feed a Genetec content distribution system via an RTSP stream, an in-house CATV system via a HDMI signal into a MDFR provided RF modulator, as well as an alternate 2-CH VMS system that will stream just the FIRE aircraft video downlink content.
- The POLICE aggregation/decoder unit, CH-A & CH-B, will feed an existing & unknown content distribution system via either a RTP/UDP or RTSP stream, an existing video wall via an HDMI signal, as well as an alternate 2-CH VMS system that will stream just the POLICE aircraft video downlink content.

6.3.1.8 V-Connect Active Monitoring Solution

- V-CONNECT Monitoring Appliance, Application Server Platform: Debian 10, 64bit OS, i5-7500, 32GB M2, 8GB RAM, 2x 10/100/1000 NIC, 20x4 LCD Display, Touchpad controls, 1RU (19" X 1.75" X 11"), Includes Rack Mount Brackets, 90~240VAC Power Supply. Software: HDR Receiver Control Interface, HTTP/S CGI, IP Aggregator Control Interface, HTTP/S CGI, TSM Decoder Control Interface, HTTP/S CGI, WebUI Dashboard.
- Vislink V-Connect active monitoring appliance unified Web UI Application Server monitors in real time, the existing Vislink video downlink receivers and distribution appliances located on

- the MDFR network. The proposed downlink system is comprised of seven (7) CRx6 video downlink microwave receivers, two (2) IP Aggregators, and four (4) TSM Decoders.
- Each of the devices will be monitored over the HTTP/CGI interface of each device. A single
 comprehensive Web based user interface will be presented that gathers vital statistics from
 each of the devices and presents the values in a heuristic manner. In addition to monitoring
 real time values, frequently used controls in the devices will be extended to the WebUI.
 Controls such as changing channels or frequency, changing encryption keys, etc.
- The landing page for the WebUI will be a geographic map which displays at a high level the
 systems overall operational health. Each physical site will be represented by an icon on the
 map. Clicking on an icon expands to show each device located at the site with the
 operational health of each device. The icon will also provide a hyperlink to directly navigate
 to the web pages of each individual device to provide granular configuration of each device.
- Each metric gathered from each device will be given a priority state between 1 and 5.
 - 1) Status. Example: Receive Signal levels
 - 2) Notice. Example: Received Signal Level below Threshold. No Email.
 - 3) Warning. Example: No Video, No Email.
 - 4) High. Example: Receiver has signal, but Decoder has no video. Email.
 - 5) Critical. Example: Device Offline. Email.
- Each metric is assigned a minimum value, maximum value, and threshold value. These
 values are used to determine the priority state of each metric. The device itself is also
 assigned a priority which corresponds with the highest priority of any of its children metrics.
 This device priority is used to visually represent the health of the device on the map-landing
 page.
- Configuration pages will be provided to assign trip point values to each metric. Some of the
 metrics can also trigger the sending of an email or SMS. An email will be sent every 24hrs
 unless the email trigger is snoozed or disabled.
- Each metric is assigned 1 of 4 update rates. This rate is dwell time between queries of the particular value from the device. The rate will roughly correspond with the refresh rate of the particular metric's visual icon on the UI.
 - 1) Real-time (~5 secs)
 - 2) Frequent (~30secs)
 - 3) Slow (~ 5mins)
 - 4) Long (~ 30mins)
- Two admin accounts and 10 viewer accounts are provided for the WebUI. Each user has its own profile with settings for email, changing password, etc.

6.3.1.9 Map of Receive Sites



Figure 6-1: Map of Receive Sites

6.4 MDFR OR COUNTY RESPONSIBILITIES

MDFR will assume responsibility for the installation and performance of any other equipment and work necessary for completion of this project that is not provided by Motorola Solutions. General responsibilities for MDFR include the following:

- Obtain frequencies for project as required.
- Motorola will provide a dedicated delivery point, such as a warehouse, for receipt, inventory and storage of equipment prior to delivery to the site(s).
- Obtain permission from site owners for site work as described.

- MDFR will provide the connection and configuration of existing MDFR network at Homestead Racetrack to the radio
- MDFR will facilitate any County network or other changes that require Miami-Dade IT, Police, or other department cooperation.

6.5 ADDITIONAL CONDITIONS

- No coverage guarantee is included.
- Delays and re-deployments caused by site access or other reasons outside the control of Motorola may result in change orders.
- Motorola Solutions is not responsible for interference caused or received by the MDFR
 provided equipment. Should MDFR's system experience interference, Motorola Solutions
 can be contracted to investigate the source and recommend solutions to mitigate the issue.
- The proposed solution integrates with but does not include the Genetec VMS or cameras or any updates that may be required for integration.
- The Genetec VMS server must be functional, compatible and have the capacity, version or other requirements to support the proposed solution. Any required upgrades are outside this scope of work.
- Airborne cameras must be installed, functional, compatible and have the capacity, version or other requirements to support the proposed solution. Any required upgrades are outside the scope of this project.

6.6 COMPLETION CRITERIA FOR PROJECT

- Site development completed per issued for construction (IFC) drawings.
- Demonstration of site functionality with video transmitted to Vislink receiver at each location and delivered to Vislink Transport Stream Management System per Test Plan in Section 6.8.
- Site turnover package completed and turned over to MDFR. The package will include the following:
 - Provide as-built system manual in electronic form, both native files and PDF format. The documentation will include the following:
 - System-Level Diagram.
 - Site Block Diagrams.
 - Site Floor Plans (Homestead Racetrack).
 - Site Equipment Rack Configurations.
 - · Antenna Network Drawings for RF Sites.
 - ATP Test Checklists.
 - Antenna Sweeps.
 - Functional Acceptance Test Plan Test Sheets and Results.
 - Equipment Inventory List (including serial numbers).
 - Structural Analyses.
 - Construction Documentation if needed.
 - Permit / Inspection Documents Signed.
 - Entitlements & Codes.

6.7 CIVIL STATEMENT OF WORK

6.7.1 Site Development at Acqualina

Motorola Solutions shall complete the installation at the current Acqualina site.

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- · Site acquisition services Not Required.
- Zoning Services Not Required.
- Installation Services Radio Vislink, Antenna Configuration and Network Connectivity via existing MPLS and MDFR Networks including testing and optimization of Vislink system.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit, of the site where the proposed Vislink antenna, radio and mount will be located, so that MDFR can provide information, and planned development at the particular location for approval by the property owner.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (Limited NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. If required perform a cultural resource study, to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna mount, Vislink antenna and Radio on the wall of the structure.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna load as required by property owner. No obtrusive investigations have been included.
- Perform an x-ray of the structure on the wall where the Vislink antenna, mount and radio propose to be installed to determine the location of structural components and rebar sizing if required.
- Design antenna support mount to support proposed antenna.
- Prepare, submit and track the application for local permit fees (Vislink antenna, mount, radio and cable and coax installation) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio up the mount to the Vislink antenna. Each location will vary based on antenna mount design.

Existing Facility Improvement Work

Supply and install new entry port as required per location for the flexible conduit which will
provide wall entry to the Vislink provided SO Cord and Fiber Jumper from the power supply
and SAR 8 in the equipment room rack to the Vislink provided CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install, on the ocean-side of the building, new 2-inch heavy duty schedule 40 galvanized mount pipe for new Vislink Dome Antenna with wall mounting brackets spaced out in two to three locations one at base of mount and then additional wall mount at 4-feet from base and then 2-feet from top of mount with the mount a total of 10-feet overall in length. The Dome antenna and surge protectors will be provided by Motorola along with the Vislink radio.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for each run to the radio once the antenna mount has been installed on the wall. Each coax will be secured to the wall or mount every 3-feet per Motorola R56 specifications. Each run of 5/8-inch coax will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge protectors.
- Dome Antenna mount to be installed on the building wall above the roof as identified for each location to optimize video being sent from MDFR Marine Units at Acqualina and Metropolis sites
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola Solutions will provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio at base of the Vislink antenna mount. The Vislink radio will be mounted 5.5-feet from the finished roof for access and maintenance. Motorola will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected with connector and the fiber jumper routed from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location.
- Motorola Solutions will provide and install the dedicated 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the SFP in the equipment room to the existing MDFR network.
- Configure existing MDFR MPLS Network to connect to Vislink receiver and route video to the Vislink Aggregation Server.
- Transportation, Parking and Access through the building to the equipment room and to the
 roof and transporting of all materials, equipment and labor for the installation of the Motorola
 Solutions-supplied equipment.

6.7.2 Site Development at Palmetto Medical Center

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not Required.

- Zoning Services Not Required.
- Installation Services Vislink Radio, dedicated 48v DC Power, Antenna and Network Connectivity via existing Network including configuration of the MPLS network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit, of the site where the proposed Vislink antenna, radio and mount will be located, so that MDFR can provide information, and planned development at the particular location for approval by the property owner.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (Limited NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. If required perform a cultural resource study, to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna mount, Vislink antenna and Radio on the wall of the structure.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna load as required by property owner. No obtrusive investigations have been included.
- Perform an x-ray of the structure on the wall where the Vislink antenna, mount and radio propose to be installed to determine the location of structural components and rebar sizing if required.
- Design antenna support mount to support proposed antenna.
- Prepare, submit and track the application for local permit fees (Vislink antenna, mount, radio and cable and coax installation) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio up the mount to the Vislink antenna. Each location will vary based on antenna mount design.

Existing Facility Improvement Work

Supply and install new entry port as required per location for the flexible conduit which will
provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the
equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install new 2-inch heavy duty schedule 40 galvanized mount pipe for new Vislink Dome Antenna with wall mounting brackets spaced out in two to three locations one at base of mount and then additional wall mount at 4-feet from base and then 2-feet from top of mount with the mount a total of 10-feet overall in length.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for each run to the radio once the antenna mount has been installed on the wall. Each coax will

- be secured to the wall or mount every three feet per Motorola Solutions R56 specifications. Each run of 5/8" coax will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge protectors.
- Dome Antenna mount to be installed on the building wall above the roof as identified for each location to optimize video being sent from MDFR helicopter units.
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola Solutions will provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio at base of the Vislink antenna mount. The Vislink radio will be mounted 5.5-feet from the finished roof for access and maintenance. Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48 volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected with connector and the fiber jumper routed from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location. This required SO and Fiber run will be at a minimum 300 linear feet for this location.
- Motorola will install the 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the SFP in the equipment room to the existing MDFR network.
- Configure existing MDFR MPLS Network to connect to Vislink receiver and route video to the Vislink Aggregation Server
- Transportation, Parking and Access through the building to the equipment room and to the roof and transporting of all materials, equipment and labor for the installation of the Motorola Solutions-supplied equipment.

6.7.3 Site Development at Jackson Memorial Hospital

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not included.
- Zoning Services Not included.
- Installation Services Vislink Radio, Antenna and Network Connectivity via existing Network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit, of the site where the proposed Vislink antenna, radio and mount will be located, so that MDFR can provide information, and planned development at the particular location for approval by the property owner.
- Prepare record drawings of the site showing the as-built information.

- Perform National Environmental Policy Act (Limited NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. If required perform a cultural resource study, to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna mount, Vislink antenna and Radio on the wall of the structure.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna load as required by property owner. No obtrusive investigations have been included.
- Perform an x-ray of the structure on the wall where the Vislink antenna, mount and radio propose to be installed to determine the location of structural components and rebar sizing if required.
- Design antenna support mount to support proposed antenna.
- Prepare, submit and track the application for local permit fees (Vislink antenna, mount, radio and cable and coax installation) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio up the mount to the Vislink antenna. Each location will vary based on antenna mount design.

Existing Facility Improvement Work

Supply and install new entry port as required per location for the flexible conduit which will
provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the
equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install new 2-inch heavy duty schedule 40 galvanized mount pipe for new Vislink Dome Antenna with wall mounting brackets spaced out in two to three locations one at base of mount and then additional wall mount at 4-feet from base and then 2-feet from top of mount with the mount a total of 10-feet overall in length. The Dome antenna and surge protectors will be provided by Motorola along with the Vislink radio.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for each run to the radio once the antenna mount has been installed on the wall. Each coax will be secured to the wall or mount every 3-feet per Motorola Solutions R56 specifications. Each run of 5/8-inch coax will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge protectors.
- Dome Antenna mount to be installed on the building wall above the roof as identified for each location to optimize video being sent from MDFR helicopter units.
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground located on the roof. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola Solutions will provide the 12-gauge negative and positive SO cord as well as fiber
 jumper between the 48-volt power supply located in the equipment room mounted in
 identified equipment rack and the Vislink radio at base of the Vislink antenna mount. The
 Vislink radio will be mounted 5.5-feet from the finished roof for access and maintenance.
 Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch
 seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide

and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected fiber jumper routed from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location.

- Motorola will install the 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the SFP in the equipment room to the existing MDFR network.
- Configure existing MDFR MPLS Network to connect to Vislink receiver and route video to the Vislink Aggregation Server.
- Transportation, Parking and Access through the building to the equipment room and to the roof and transporting of all materials, equipment and labor for the installation of the Motorola Solutions-supplied equipment.

6.7.4 Site Development at Metropolis Condo

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not Required.
- Zoning Services Not Required.
- Installation Services Vislink Radio, Antenna and Network Connectivity via existing Network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Teloo, power, existing facilities, etc.).
- Prepare a lease exhibit, of the site where the proposed Vislink antenna, radio and mount will be located, so that MDFR can provide information, and planned development at the particular location for approval by the property owner.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (Limited NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. If required perform a cultural resource study, to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna mount, Vislink antenna and Radio on the wall of the structure.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna load as required by property owner. No obtrusive investigations have been included.

- Perform an x-ray of the structure on the wall where the Vislink antenna, mount and radio propose to be installed to determine the location of structural components and rebar sizing if required.
- Design antenna support mount to support proposed antenna.
- Prepare, submit and track the application for local permit fees (Vislink antenna, mount, radio and cable and coax installation) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio up the mount to the Vislink antenna. Each location will vary based on antenna mount design.

Existing Facility Improvement Work

• Supply and install new entry port as required per location for the flexible conduit which will provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install new 2-inch heavy duty schedule 40 galvanized mount pipe on the ocean-side of the building for new Vislink Dome Antenna with wall mounting brackets spaced out in two to three locations one at base of mount and then additional wall mount at 4' from base and then 2' from top of mount with the mount a total of 10-feet overall in length. The Dome antenna and surge protectors will be provided along with the Vislink radio.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for each run to the radio once the antenna mount has been installed on the wall. Each coax will be -inch coax will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge protectors.
- Dome Antenna mount to be installed on the building wall above the roof as identified for each location to optimize video being sent from MDFR Marine Units at Acqualina and Metropolis sites
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground located on the roof. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola Solutions will Provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio at base of the Vislink antenna mount. The Vislink radio will be mounted 5.5-feet from the finished roof for access and maintenance. Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected the fiber jumper routed from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location.
- Motorola Solutions will install the 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the SFP in the equipment room to the existing MDFR network.
- Configure existing MDFR MPLS Network to connect to Vislink receiver and route video to the Vislink Aggregation Server
- Transportation, Parking and Access through the building to the equipment room and to the
 roof and transporting of all materials, equipment, and labor for the installation of the Motorola
 Solutions-supplied equipment.

6.7.5 Site Development at South Dade Government

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not Required.
- Zoning Services Not Required.
- Installation Services Vislink Radio, Antenna and Network Connectivity via existing Network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity. This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. Perform a cultural resource study, as needed to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed the proposed equipment loads.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna loads. No obtrusive investigations have been included.
- Perform an x-ray of the structure on the wall where the Dome Vislink antenna and mount will be installed to determine the location of structural components and rebar sizing.
- Design antenna support platform to support proposed antenna.
- Preparation, submission and tracking of application for local permit fees (antenna and mount installation) and procurement of information necessary for filing.
- Install up to 120 linear feet (6 runs) of 5/8-inch transmission line.

Existing Facility Improvement Work

Supply and install new entry port as required per location for the flexible conduit which will
provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the
equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install new 2-inch heavy duty schedule 40 galvanized mount pipe for new Vislink Dome Antenna with mounting brackets spaced out in two or three locations on the tower face and then 2-feet from top of mount with the mount installed on the face of the tower structure located on the roof of the facility. The Dome antenna and surge protectors will be provided by Motorola along with the Vislink radio.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for

- each run to the radio once it is installed and mounted on the face of the existing tower. Each coax will be secured to the mount or tower face every three feet per Motorola Solutions R56 specifications. Each run will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge.
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground located on the roof. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola will provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio at the Vislink antenna mount. Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected with the fiber jumper will be pulled from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location.
- Motorola Solutions will install the 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the FSP in the equipment room to the existing MDFR network.
- Configure MDFR MPLS Network to connect to Vislink receiver and route video to the Vislink Aggregation Server.
- Transportation, Parking and Access through the building to the equipment room and to the roof and transporting of all materials, equipment and labor for the installation of the Motorola Solutions-supplied equipment.

6.7.6 Site Development at Homestead Raceway

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not included.
- Zoning Services Not included.
- Installation Services Vislink Radio, Antenna, 48v DC power plant and Network Connectivity via existing Network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit, of the site where the proposed Vislink antenna, radio and mount will be located, so that MDFR can provide information, and planned development at the particular location for approval by the property owner.
- Prepare record drawings of the site showing the as-built information.
- Perform National Environmental Policy Act (Limited NEPA) Threshold Screening, including limited literature and records search and brief reporting, as necessary to identify sensitive natural and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1, subsection 1.1307 that may be potentially impacted by the proposed construction activity.

This does not include the additional field investigations to document site conditions if it is determined that the proposed communication facility "may have a significant environmental impact" and thus require additional documentation, submittals, or work. If required perform a cultural resource study, to identify sensitive historical and archaeological monuments that might be impacted by proposed construction.

- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna mount, Vislink antenna and Radio on the wall of the structure.
- Perform structural mapping, analysis, and design to antenna support structure for the proposed equipment and antenna load as required by property owner. No obtrusive investigations have been included.
- Perform an x-ray of the structure on the wall where the Vislink antenna, mount and radio propose to be installed to determine the location of structural components and rebar sizing if required.
- Design antenna support mount to support proposed antenna.
- Prepare, submit and track the application for local permit fees (Vislink antenna, mount, radio and cable and coax installation) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio up the mount to the Vislink antenna. Each location will vary based on antenna mount design.

Existing Facility Improvement Work

• Supply and install new entry port as required per location for the flexible conduit which will provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Design, Fabricate and Install new 2-inch heavy duty schedule 40 galvanized mount pipe for new Vislink Dome Antenna with wall mounting brackets spaced out in two to three locations one at base of mount and then additional wall mount at 4-feet from base and then 2-feet from top of mount with the mount a total of 10-feet overall in length. The Dome antenna and surge protectors will be provided by Motorola along with the Vislink radio.
- Install the Vislink Dome Antenna on the mast with six (6) runs of 5/8-inch coax with N-Male connectors on each with surge protectors and install N-Male connectors at the radio end for each run to the radio once the antenna mount has been installed on the wall. Each coax will be secured to the wall or mount every three feet per Motorola Solutions R56 specifications. Each run of 5/8-inch coax will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge protectors.
- Dome Antenna mount to be installed on the building wall above the roof as identified for each location to optimize video being sent from MDFR helicopter units.
- Provide and install a new ground bus adjacent to the antenna mast and Vislink radio and connected back to the building ground located on the roof. This connection shall meet R56 specifications and if applicable use dissimilar grounding clamps as required.
- Motorola Solutions will provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio at base of the Vislink antenna mount. The Vislink radio will be mounted 5.5-feet from the finished roof for access and maintenance. Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected with the fiber jumper

- routed from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location.
- Motorola Solutions will install the 48-volt power supply and provide 120-volt AC power to the power supply. Motorola Solutions will connect the fiber jumper to the SFP in the equipment room to the existing MDFR network.
- Connect to existing MDFR Fiber Network to connect to Vislink receiver and route video to the Vislink Aggregation Server
- Transportation, Parking and Access through the building to the equipment room and to the roof and transporting of all materials, equipment and labor for the installation of the Motorola Solutions-supplied equipment.
- Install dedicated rack-mounted 48v DC power plant.

6.7.7 Site Development at Miccosukee Tower Site

Site Scope Summary

- Engineering services for site drawings and regulatory approvals Included.
- Site acquisition services Not Required.
- Zoning Services Not Required.
- Existing tower to be used for antennas 200-foot Sabre Self-supported Tower.
- Installation Services Vislink Radio, Antennas mounted to the tower at the 140' level and Network Connectivity via existing Network.

Motorola Solutions Responsibilities

Site Engineering

- Prepare site construction drawings, showing the layout of various new and existing site components.
- Conduct site walks to collect pertinent information from the sites (e.g., location of Telco, power, existing facilities, etc.).
- Prepare a lease exhibit and sketch of the site to communicate to the property owner the proposed lease space and planned development at the particular site location.
- Prepare record drawings of the site showing the as-built information.
- Perform a boundary and topographic survey for the property on which the communication site is located or will be located.
- Perform National Environmental Policy Act (NEPA) Threshold Screening, including limited
 literature and records search and brief reporting, as necessary to identify sensitive natural
 and cultural features referenced in 47 Code of Federal Regulations (CFR) Chapter 1,
 subsection 1.1307 that may be potentially impacted by the proposed construction activity.
 This does not include the additional field investigations to document site conditions if it is
 determined that the proposed communication facility "may have a significant environmental
 impact" and thus require additional documentation, submittals, or work.
- Provide a structural engineering analysis for antenna support structure, if necessary, to support the proposed antenna system. If the tower structure fails the analysis, the cost of any site relocation or modifications to the tower required to support the antenna system will be the responsibility of Miami-Dade County.
- Prepare, submit and track application for local permit fees (electrical, building etc.) and procurement of information necessary for filing.
- Install up to 140 linear feet (6 runs) of 5/8-inch transmission line from the externally mounted CRx6 Vislink Radio around the face of the tower to the Vislink panel antennas.

Site Preparation

• Provide one-time mobilization costs for the construction crews. Any remobilization due to interruptions/delays that are out of Motorola Solutions' control will result in additional costs.

Existing Facility Improvement Work

Supply and install new entry port as required per location for the flexible conduit which will
provide wall entry to the SO Cord and Fiber Jumper from the power supply and SAR 8 in the
equipment room rack to the CRX-6 Vislink Radio.

Miscellaneous Work

- Fabricate and install mounts for six (6) Vislink 4" x 10" panel antennas at azimuths specified by Vislink for each panel antenna.
- Install the Vislink Panel Antennas on the tower per Vislink azimuths for each panel and connect one (1) 5/8-inch coax with N-Male connectors to each panel antenna at the 140-foot elevation on the self-supported tower with surge protectors and install N-Male connectors at the radio end for each run to the CRx6 radio once it is installed and mounted on the tower leg. Each coax will be secured to the tower (at the 140-foot level) every 3-feet per Motorola Solutions R56 specifications. Each run will be grounded per Motorola Solutions R56 Specifications to the ground bus located adjacent to the Vislink radio with surge. The Vislink radio will be mounted at the 140' elevation on the existing Sabre self-supported tower.
- Provide and install a new ground bus adjacent to the Vislink radio and connected back to the tower per Motorola Solutions R56 specifications. Tinned copper bus will be used for the grounding of these coaxes and radio back to the tower.
- Motorola Solutions will provide the 12-gauge negative and positive SO cord as well as fiber jumper between the 48-volt power supply located in the equipment room mounted in identified equipment rack and the Vislink radio and Motorola Solutions will install both the SO cord run and the fiber jumper run in a 1.5-inch seal tight flexible non-metallic conduit with connectors. Motorola Solutions will also provide and install a non-metallic junction box adjacent to the Vislink radio so that the SO cord and fiber jumper are secure between the radio equipment room and the outdoor Vislink radio. The SO cord for 48-volts will have surge protector installed in the junction box and then pulled from the surge protector to the Vislink radio and connected with the fiber jumper will be pulled from the junction box and connected to the Vislink radio. The runs of SO and Fiber will vary based on lengths required at each location. The conduit, SO and Fiber run for this location will be approximately 180-feet.
- Motorola Solutions will install the 48-volt power supply and provide 120-volt AC power to the power supply. Also, Motorola Solutions will connect the fiber jumper to SFP in the equipment room to the existing MDFR network.
- Transport for all equipment to the Miccosukee tower location required for the Vislink installation.

6.7.8 MDFR Responsibilities for Each Location

- Review and approve site design drawings within 28 calendar days of submission by Motorola Solutions or its subcontractor(s). Should a re-submission be required, the MDFR shall review and approve the re-submitted plans within 28 calendar days from the date of submittal.
- Pay for application fees, taxes and recurring payments for lease/ownership of the property.
- Provide personnel to observe construction progress and testing of site equipment according to the schedule provided by Motorola Solutions.

- Site upgrades or improvements are the responsibility of MDFR unless specified. Structural
 assessments are included, but any resulting upgrades required are not in the scope of the
 MDFR CIIP.
- Configure network at Homestead Raceway site.

6.7.9 Additional Conditions

- All work is assumed to be done during normal business hours as dictated by time zone (Monday thru Friday, 7:30 a.m. to 5:00 p.m.).
- All recurring and non-recurring utility costs will be borne by MDFR or site owner.
- A maximum of 30 days will be required for obtaining approved building permits from time of submission, and a maximum of 60 days will be required for zoning approvals from time of submittal for Motorola Solutions to be able to hold to the existing project schedule. In the case of permit or zoning delays, there would be no cost impact to MDFR.
- If extremely harsh or difficult weather conditions delay the site work for more than a week,
 Motorola Solutions will seek excusable delays rather than risk job site safety.
- Alarming at existing sites will be limited to new component installations and will have to be discussed and agreed to on a site-by-site basis.
- The existing utility service and backup power facilities (UPS, generators) have sufficient extra capacity to support the proposed new equipment load. The tower structures located at Miccosukee and South Dade Government Center and the wall of the Acqualina, Palmetto Medical Center, Jackson Memorial Hospital, Metropolis and Homestead Race Way Club facility can support the proposed new antenna or antennas for the Vislink installation and mount loading. Physical or structural improvements to the existing tower or wall of the building will not be required. Any structural improvements would be the responsibility of MDFR.
- Motorola Solutions shall be responsible for complying with all applicable provisions of Florida law that relate to design and construction of public buildings and facilities including, but not limited to, Florida Statutes Sections 255.05, 255.20 and 287.055.

6.8 TEST PLAN

6.8.1 Manufacturer Factory Bench Testing Plan

Factory bench testing will consist of the following:

- The receivers will be setup and tested to resemble what the final configuration will be in the
 field, i.e., IP addressing, and encryption keys will be preconfigured in each unit.
- Four channel aggregation units will be connected as the destination devices for the receiver videos. Each aggregator is designated by the channel that it receives on. Unit A, unit B, unit C and Unit C, respectively.
- IP video streams from aggregation units A and B will be streamed to the corresponding A and B Media Server, (Police).
- IP video streams from aggregation units C and D will be streamed to the corresponding C and DB Media Server, (Fire).
- At the factory, all four channels will be tested simultaneously to replicate full channel loading and IP streaming.
- Radio frequency signal levels and MER will be recorded for each antenna on each of the seven receiver systems on each individual channel. The levels will be recorded at a high RF

- energy level and again with -40dB attenuation added to each transmitter. A document recording these test signal measurements will be created for each receiver.
- Four low power transmitters will be powered up and connected to different video sources. Each transmitted will be set up to a different RF channel.
 - Transmitter 1, Channel #1 6430 MHz.
 - Transmitter 2, Channel #4 6455 MHz.
 - Transmitter 3, Channel #8 6488 MHz.
 - Transmitter 4. Channel #12 6521 MHz.
- All transmitters will be set to the following parameters:
 - DVBT modulation.
 - Constellation QPSK.
 - Bandwidth 8 MHz.
- Receivers will be documented for RF signal sensitivity on the four test channels.
- A document will be filled out to document the receiver sensitivity at the full range of the receiver's input sensitivity. A receiver sensitivity document will be provided for each receiver.
- An antenna graph will also be provided to indicate RF performance as displayed by the aggregation units for a particular receiver at -70db. An example if the graph is shown below.

6.8.2 On-Site Field Testing

Field testing will be performed on each site consisting of the following:

- Testing of each system, from the receive antenna, down through the RF cables, into the
 outdoor mounted receiver, through the optical fiber interconnect and into MDFR's provided
 network switch will be completed utilizing a Vislink local test transmitter in a similar matter to
 that described in bench testing.
- Transmitting from a known distance on the rooftop RF levels and MER values will be recorded and compared to those values recorded during the factory testing.
- Optical power will be measured and recorded on the TX side prior to connection to the SFP at the switch.
- Each receiver will be tuned to the same frequency, on each of the 4-channels, matching the transmit frequency. This will create an identical video stream in each of the four channels.
- The video from the test transmitter will be observed at the Central collection facility, as well as on the output of each channel aggregator.
- Metrics will also be compared as received by the aggregation units at the central collection facility. A screen capture of the 4-streams will be recorded.
- The same tests will be completed at all 7-sites.
- Field test with a Helicopter to validate system functionality will be done at a mutually
 agreeable time and place; MDFR will have 45 days to make the helicopter available for
 testing once Motorola Solutions provides notice to proceed. Service/Warranty call outs,
 maintenance and lifecycle are not included. This may be proposed separately.

6.9 EQUIPMENT LIST

The following equipment shall be provided by Motorola Solutions. NOTE: Miami-Dade County is not responsible for errors or omissions within the equipment list. Motorola Solutions will include any additional equipment necessary to ensure system improvements are operating optimally.

LINE	QTY	NOMENCLATURE	DESCRIPTION
ITEM			
Site D	Develop	nent Items	
1	140	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
2	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
3	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
4	120	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
5	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
6	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
7	120	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
8	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
9	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
10	120	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
11	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
12	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
13	120	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
14	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
15	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
16	140	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
17	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
18	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60", FIELD CRIMPON LUG
19	120	DSLDF4550	CABLE: 5/8" LOW DENSITY FOAM, PER FOOT
20	14	DSL45PNMRC	TYPE N MALE RINGFLARE FOR 5/8 IN LDF4.5-50 CABLE
21	6	DS220497	220497 7/8" GROUNDING KIT, TWO HOLE, 1/4" LUG, 60', FIELD CRIMPON LUG
Acqu	alina Vid	deo	
22	1	9018675	SectorPod receive antenna, white radome, six panel
23	1	9018676	Mount sector pod
24	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6

			June 30, 2022
LINE	QTY	NOMENCLATURE	DESCRIPTION
25	1	211325	Integration Access
26	1	690-00143-00A-R	Remote Reboot Device
	polis Vi		
27	1	9018675	SectorPod receive antenna, white radome, six panel
28	1	9018676	Mount sector pod
29	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
30	1	211325	Integration Access
31	1	690-00143-00A-R	Remote Reboot Device
Palm	etto Hos	pital	
32	6	9018350	Compact Sector Antenna
33	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
34	1	211467.4	Integration Access
35	1	690-00143-00A-R	Remote Reboot Device
Jacks	on Hos	pital	
36	1	9018675	SectorPod receive antenna, white radome, six panel
37	1	9018676	Mount sector pod
38	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
39	1	211467.2	Integration Access
40	1	690-00143-00A-R	Remote Reboot Device
South	n Dade (Government Site	
41	1	9018675	SectorPod receive antenna, white radome, six panel
42	1	9018676	Mount sector pod
43	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
44	1	211467.2	Integration Access
45	1	690-00143-00A-R	Remote Reboot Device
Home	estead S	Speedway	
46	1	9018675	SectorPod receive antenna, white radome, six panel
47	1	9018676	Mount sector pod
48	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
49	1	211467.2	Integration Access
50	1	690-00143-00A-R	Remote Reboot Device

			June 30, 2022
LINE	QTY	NOMENCLATURE	DESCRIPTION
Micco	sukee T	ower	
51	6	9018350	Compact Sector Antenna
52	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
52	1	211467.4	Integration Access
53	1	690-00143-00A-R	Remote Reboot Device
Syste	m Aggre	egation and Decoding	
55	1	TSM-2020-AGG	Aggregator, decoder, controller unit.
56	1	TSM-2020-AGG	Aggregator, decoder, controller unit.
57	1	TSM-2020-AGG	Aggregator, decoder, controller unit.
58	1	TSM-2020-AGG	Aggregator, decoder, controller unit.
Syste	m IP Str	eaming and Distribution	
59	1	TSM-2020-MSM	Transport stream manager
60	1	TSM-2020-MSM	Transport stream manager
Tacti	cal Hand	I-Held Portable Receive	
61	1	64MCR-HD-SV-M02-B2-VIP- IMT-FP413-NO MMK-MNL	Mobil CMDR
62	2	9018695	Omni ant w up-look 6.4-7.1 GHz 50 Ohm, RHCP, 20Wmax in, N-M
63	2	9015703	COAXIAL, GOOSENECK ASSEMBLY, 7" N-MALE TO N-FEMALE DC-6GHZ
64	1	922-B1278-01A-R	Cable, DC Power Plug to Vehicle Plug, 5A, 6 FT
65	2	9018352	AB G90 : Anton Bauer Titon 90 Gold Mount Lithium Battery, 14.2V, 92Wh
66	1	A/B TWIN CHARGER	A/B Two position simultaneous charger
Porta	ble Test	Transmit Kit	
67	1	23MLT3-B3-T-ML3-VC2-ACC- 5S-,L3-ACC	Microlite 3 Transmitter
68	2	AB G 90	Lithium battery
69	1	A/B TWIN CHARGER	A/B Two position simultaneous charger
70	1	9018732	RF Cable Assembly
71	1	9018695	Omni ant w up-l∞k 6.4-7.1 GHz 50 Ohm, RHCP, 20Wmax in, N-M
72	1	9018350	Compact Sector Antenna
Span	es	•	
73	3	9018675	SectorPod receive antenna, white radome, six panel
74	6	9018350	Compact Sector Antenna 6.475-7.125GHz
75	1	68CRX6-4-M02-B3-CRX6- ACC-STD-ODU-ACC-GK- CRX6-2-HTM-FP413	Central Receive X6
76	1	TSM-2020-AGG	Transport Stream Manager
77	1	TSM-2020-MSM	Transport Stream Manager

LINE		NOMENCLATURE	DESCRIPTION
Activ	e Monito	ring	
78	1	9019229	V-CONNECT Monitoring Appliance

6.10 MAINTENANCE STATEMENT OF WORK

Vislink Support Services with On Site Response

Motorola Solutions shall provide a dedicated technical resource to MDFR to facilitate a seamless support program on the Vislink Solution between Motorola / Vislink and MDFR. The ultimate goal is to ensure MDFR's investment in the Vislink Solution and to ensure it is utilized to the fullest extent possible. The dedicated technical resource will be assigned to MDFR and will have an office at Miami-Dade Fire Rescue Headquarters and report daily. This Statement of Work is inclusive of services provided by Vislink and Motorola.

Motorola Responsibilities

- 1. Motorola on-site support for the Vislink system will be provided Mon-Fri from 8:30 am to 4:30 pm EST excluding weekends and Motorola observed holidays.
- 2. Open, track and manage cases for Vislink issues to resolution utilizing Vislink's Customer Support Portal. Providing timely updates to MDFR. Once a case is opened utilizing Vislink's portal, they require a minimum of 24 hours to respond but will take no more than 48 hours.
- 3. Conduct monthly site inspections of all Vislink sites to be completed in a timely manner and provide MDFR documentation on a monthly basis.
 - A. Vislink documentation to be developed by Motorola and MDFR and mutually agreed upon.
- 4. Coordinate with MDFR to schedule any downtime that may affect or impact the system.
- 5. Coordinate and conduct software / firmware updates of ground-based stations and core equipment with MDFR point of contact.
- 6. Escalate and track within Vislink's portal any service impacting issues, engaging resources necessary, coordinating meetings and/or conference calls until resolved.
- 7. Provide a single point of contact to MDFR for all Vislink service related issues and advise MDFR of on-going issues with potential impact to operations.
- 8. Inventory and tracking of all infrastructure equipment in MCM (spares, equipment out for repair, etc.).
- 9. Motorola will trouble shoot the system and handle replacement of equipment with MDFR provided spare units on-hand when needed.
- 10. Motorola will handle processing of equipment requiring repairs.
- 11. Provide quote to MDFR for any above contract repairs or services not covered under the contract. This includes any emergency visits to Miami-Dade County by Vislink technical resources and/or training on an as needed basis. One on-site emergency service call, one on-site training session and one virtual training session by Vislink is included in the annual service agreement.
- 12. Motorola will commit to repair and return failed hardware within 15 business days upon receipt inclusive of round trip shipping.
- 13. Covers shipping inbound and outbound for hardware repair to Vislink's repair facility.
- 14. Conduct remote error analysis with support. Network access would need to be secured from MDFR to ensure proper diagnostics.

- 15. Coordinate with a Vislink Engineer to schedule an annual preventative maintenance inspection. (Tower crew services, if needed, are not included in the contract and a quote to MDFR will be provided in advance.) Included in the PM service are:
 - A. A Visual inspection of the Vislink equipment.
 - B. Check for loose connections/ hardware.
 - C. Firmware upgrades.
 - D. Verify TX & RX Levels.
 - E. Test MDFR test transmitter, and verify operational.
 - F. Evaluate Alarm Codes.
 - G. Visual inspection of transmission lines; inspect excessive wear, weathering, and stability on tower from the ground level. The use tower crews or drone services are not included in the contract and would be billable if required.
 - H. Visual inspection of the site enclosure.
 - I. Verify software versions, and update if necessary.
 - J. Perform local test.
 - K. Document results and provide to MDFR.
- 16. V-Connect Active Monitoring and Notification, an appliance or software tool is provided. This tool can be utilized for troubleshooting efforts, or to simply receive alerts and notifications on the health and overall condition of the system. Two admin accounts and 10 viewer accounts are included with this solution for MDFR to assign or distribute accordingly. Each User account has its own profile with settings such as email and password managements.
- 17. Motorola will handle deployment and distribution of encryption keys for Fire and Police channels in accordance with Fire and Police Encryption Key management administration and procedures.
- 18. This resource will also fulfill the scope as referenced in the Dedicated Subscriber Support Technician statement of work.

MDFR Responsibilities

- 1. Provide point of contact for Motorola / Vislink to provide Lifecycle and End of Life information to regarding hardware / equipment, in addition to last time buy notices.
- 2. Provide point of contact and email address to be copied on "auto notify" communications for software and firmware updates when they become available.
- 3. Assist with access to equipment when necessary.
- 4. Cooperate with Motorola and perform all acts that are reasonable and necessary to enable Motorola and Vislink to provide the services described in the SOW.
- 5. Notify Motorola resource when there is an issue with the Vislink solution.
- 6. Provide a point of contact for the technical resource to coordinate with for system maintenance, Encryption Key procedures and software updates.
- 7. Establish and maintain a suitable environment (proper ventilation, light and power) for the equipment location and provide Servicer full and safe access to the equipment.

SECTION 7

ACCEPTANCE TEST PLAN

7.1 SMARTMAPPING

7.1.1 Display Location on APXNext

1. DESCRIPTION

Radio location of other remote APXNext devices will be displayed on APXNext.

SETUP

Radio 1 and Radio 2 will have SmartMapping enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to display SmartMapping layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Zoom out on Radio 1 SmartMapping map and see other radio's location (e.g. Radio 2) displayed.

Pass	Fail
rass	ган

7.1.2 Display Location of Radio in Emergency

1. DESCRIPTION

Radio location of other remote APXNext devices will be displayed on APXNext.

SETUP

Radio 1 and Radio 2 will have SmartMapping enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to display SmartMapping layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Initiate an emergency alarm from Radio 2 and observe the icon on the Radio 1's display map indicating an emergency.
- Step 3. Clear the emergency and observe the icon revert.

Pass	Fail
Fass	ган

7.2 SMARTLOCATE

7.2.1 Display Location of APXNext

1. DESCRIPTION

Radio location of other remote APX Next devices will be displayed on Command Central Aware.

SETUP

Radio 1 and Radio 2 will have SmartLocate enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to display SmartLocation layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Login to CommandCentral Aware via Chrome browser
- Step 3. Zoom out on CommandCentral Aware map and see radio locations (e.g. Radio 1) displayed.
- Step 4. Move radio users in the field and observe accurate movement of the radio location icons
- Step 5. Turn off radios and observe the icons disappear from the map

1200	The same of the sa
Pass	Fail
1 033	ı alı

7.2.2 Display Location of Radio in Emergency

1. DESCRIPTION

Radio location of other remote APX Next devices will be displayed on Command Central Aware.

SETUP

Radio 1 and Radio 2 will have SmartLocate enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to display SmartLocation layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Login to CommandCentral Aware via Chrome browser
- Step 3. Zoom out on CommandCentral Aware map and see radio locations (e.g. Radio 1) displayed.
- Step 3. Initiate and emergency alarm from Radio 2 and observe the icon change, indicating an emergency.
- Step 4. Clear the emergency and observe the icon revert.

D	E-!!
Pass	Fail

7.3 SMARTMESSAGING

7.3.1 Send Multimedia File to a Radio

1. DESCRIPTION

Messages can be sent/received by APXNext Devices.

SETUP

Radios will have SmartMessaging enabled.

SmartMessaging client will be configured.

VERSION #1.000

2. TEST

- Step 1. Login to Dispatch Messaging Client
- Step 2. Power on target radios
- Step 3. Send a Multimedia file (JPG) from the Dispatch Messaging Client software to Radio 1. Confirm the file is received at Radio 1.
- Step 4. Radio 1 will respond back with a freeform text acknowledgement. Confirm the response is received at the Dispatch Messaging Client.

PassF	ail
-------	-----

7.3.2 Send Multimedia File to a Group of Radios

1. DESCRIPTION

Messages can be sent/received by APXNext Devices.

SETUP

Radios (Radio 1, Radio 2, Radio 3) will have SmartMessaging enabled.

SmartMessaging client will be configured.

VERSION #1.000

2. TEST

- Step 1. Login to Dispatch Messaging Client
- Step 2. Power on target radios
- Step 3. Send a Multimedia file (JPG) from the Dispatch Messaging Client software to a group of Radios (Radio 1, Radio 2, Radio 3)
- Step 4. Confirm the file is received at all radios.

Pass Fail

7.4 SMARTPROGRAMMING

7.4.1 Program a single APXNext radio

1. DESCRIPTION

Radios can be programmed and managed wirelessly from a central environment.

SETUP

Radio 1 will have SmartProgramming enabled and be provisioned in the same RadioCentral agency as the RadioCentral programmer.

VERSION #1.000

2. TEST

- Step 1. Login to Radio Central application
- Step 2. Power on target radios
- Step 3. Change the alias of Radio 1 in the RadioCentral Application. This will create a configuration delta.
- Step 4. Initiate a programming (write) of Radio 1.
- Step 5. Confirm receipt of the programming job at the radio.
- Step 6. Accept and install the programming job from the radio.
- Step 7. Following the update, observe the radio programming has successfully been modified.

Pass	Fail
1 433	I UII

7.4.2 Program multiple APXNext radios

1. DESCRIPTION

Multiple radios can be programmed and managed wirelessly from a central environment.

SETUP

Radio 1 and Radio 2 will have SmartProgramming enabled and be provisioned in the same RadioCentral agency as the RadioCentral programmer. Radio 1 and 2 will share a common configuration (template).

VERSION #1.000

2. TEST

- Step 1. Login to Radio Central application
- Step 2. Power on target radios
- Step 3. Change a configuration parameter of Radio 1 and Radio 2 in the RadioCentral Application. This will create a configuration delta for all radios utilizing that configuration.
- Step 4. Initiate a programming (write) for Radio 1 and Radio 2.
- Step 5. Confirm receipt of the programming job at the radios.
- Step 6. Accept and install the programming job from the radios.
- Step 7. Following the update, observe the radios programming has successfully been modified.

Pass	Fail
1 400	I WII

7.5 SMARTCONNECT

7.5.1 SmartConnect Subscriber Mobility LMR to LTE Switchover

1. DESCRIPTION

Upon losing ASTRO LMR RF coverage and no other ASTRO LMR sites are available, a SmartConnect capable radio may automatically roam to a SmartConnect site via LTE. Whether automatic switching is possible depends on configuration of the "Backup PTT Operation" setting for the personality being used.

A personality may be configured as LMR Only, LMR Preferred or Broadband Only. Radios are provisioned with the "LMR Preferred" setting to facilitate automatic switchover to broadband from LMR. The "LMR Only" setting is used to prevent a radio from roaming to broadband and the "Broadband Only" setting is utilized to facilitate manual switching to a SmartConnect site.

The broadband access type used is dependent on the capabilities/configuration of the radio.

The following test demonstrates automatic switchover between LMR and SmartConnect via LTE.

SETUP

RADIO-1 - TALKGROUP 1", "LMR Preferred"

RADIO-2 - TALKGROUP 1, "LMR Only"

CONSOLE-1 - TALKGROUP 1

VERSION #1.010

2. TEST

- Step 1. With RADIO-1 and RADIO-2 on LMR Site 1, initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 2. Observe that RADIO-2 and CONSOLE-1 will be able to receive and respond to the call. Dekey RADIO-1.
- Step 3. Remove antennas on RADIO-1 and RADIO-2 to simulate poor LMR coverage.
- Step 4. Observe that RADIO-1 moves to broadband SITE 2 and displays the SmartConnect banner. The radio may briefly display "Out of Range" during this transition
- Step 5. Observe that RADIO-2 continuously displays "Out of Range".
- Step 6. Initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 7. Observe that only CONSOLE-1 will be able to receive and respond to the call.
- Step 8. Dekey RADIO-1 and reinstall the antennas on RADIO-1 and RADIO-2.
- Step 9. Observe that RADIO-1 eventually moves back to LMR SITE 1 and no longer displays the SmartConnect banner.

Note: The transition back to LMR may not occur immediately (depends on RSSI thresholds and how long it was on the broadband site).

Step 10. Confirm that RADIO-1 and RADIO-2 are able to make calls again on LMR SITE 1.

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Pass	raii
Transfer and State	

7.5.2 SmartConnect Subscriber Mobility Manual Switchover to Broadband

1. DESCRIPTION

Upon losing LMR RF coverage and no other LMR sites are available, a user may choose to manually switch to a SmartConnect site by selecting a personality configured as "Broadband Only".

The broadband access type used is dependent on the capabilities/configuration of the radio.

The following test demonstrates manual switchover between LMR and SmartConnect.

SETUP

RADIO-1 – TALKGROUP 1", "LMR Only" (personality 1)

RADIO-1 – TALKGROUP 1", "Broadband Only" (personality 2)

RADIO-2 - TALKGROUP 1, "LMR Only" CONSOLE-1 - TALKGROUP 1

2. TEST

- Step 1. With RADIO-1 and RADIO-2 on LMR Site 1, initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 2. Observe that RADIO-2 and CONSOLE-1 will be able to receive and respond to the call. Dekey RADIO-1.
- Step 3. Change RADIO-1 to a "Broadband Only" personality for TALKGROUP 1.
- Step 4. Observe that RADIO-1 moves to the broadband SITE 2 and displays the SmartConnect banner. The radio may briefly display "Out of Range" during this transition.
- Step 5. Initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 6. Observe that RADIO-2 and CONSOLE-1 are able to receive and respond to the call.
- Step 7. Dekey RADIO-1 and select the "LMR Only" personality.
- Step 8. Observe that RADIO-1 moves back to LMR SITE 1 and no longer displays the SmartConnect banner.
- Step 9. Observe that RADIO-2 and CONSOLE-1 are still able to receive and respond to calls from RADIO-1.

VERSION #1.010

_		
Pass	Fail	

7.5.3 SmartConnect - Wide Area Trunking - Talkgroup Call

1. DESCRIPTION

The Talkgroup is the primary level of organization for communications on a trunked radio system. Radios with Talkgroup call capability will be able to communicate with other members of the same Talkgroup.

This test will demonstrate that a Talkgroup transmission initiated by a radio user will only be heard by system users, which have, the same Talkgroup selected. As with other types of calls, Talkgroup calls can take place from anywhere in the system.

SETUP

RADIO-1 – TALKGROUP 1 RADIO-1 – LMR SITE 1

RADIO-2 – TALKGROUP 1 RADIO-2 – BROADBAND SITE 2

RADIO-3 - TALKGROUP 2 RADIO-3 - LMR SITE 1

RADIO-4 - TALKGROUP 2 RADIO-4 - BROADBAND SITE 2

VERSION #1.010

2. TEST

- Step 1. Initiate a Wide Area Call with RADIO-1 in TALKGROUP 1.
- Step 2. Observe that only RADIO-2 will be able to monitor and respond to the call.
- Step 3. Initiate a Wide Area Call with RADIO-3 in TALKGROUP 2.
- Step 4. Observe that only RADIO-4 will be able to monitor and respond the call.

Pass	Fail
гаээ	I all

7.5.4 SmartConnect - Wide Area Trunking - Secure Operation

1. DESCRIPTION

Digital encryption is used to scramble a transmission so only properly equipped and configured radios can monitor the conversation. A "Key" is used to encrypt the transmit audio. Only radios with the same "Key" can decrypt the audio and listen to it.

SETUP

RADIO-1 - TALKGROUP 1 (SECURE TXMODE)

RADIO-2 - TALKGROUP 1 (SECURE TXMODE)

RADIO-3 - TALKGROUP 1 (SECURE MODE and no, or incorrect key)

RADIO-4 - TALKGROUP 1 (Clear TX Mode)

Notes:

- The identical secure mode must be programmed into RADIO-1, RADIO-2, RADIO-4 and that RADIO-3 has no secure code loaded or has a unique secure code from the other testing radios.
- Execute this test with all radios on the broadband site.

VERSION #1.010

2. TEST

- Step 1. Initiate a secure wide area call with RADIO-1 on TALKGROUP 1. Keep this call in progress until instructed to end the call.
- Step 2. Observe that RADIO-2 will be able to monitor the call.
- Step 3. Observe that RADIO-3 does not receive the call.
- Step 4. Observe that RADIO-4 will also receive the call even with the secure switch set to the non-secure mode of operation.
- Step 5. End the call from RADIO-1.
- Step 6. Respond with RADIO-2 and verify that RADIO-1 and RADIO-4 receive the response audio but RADIO-3 cannot.

	71_30 PSER
Pass	Fail
rass	raii

7.6 P25 FUNCTIONAL TESTING (PASS / FAIL)

7.6.1 General Usage

- 1. Power on the Radio
- 2. Autolog In (registers P25 ID and P25 Group)
- 3. Turn radio off and on multiple times
- 4. Change Systems
- 5. Change Groups
- 6. Display System and Talkgroup name on radio
- 7. Transmit on Groups in Different Systems
- 8. Receive on Groups in Different Systems
- 9. Display P25 ID of users when receiving calls
- 10. Change volume up/down
- 11. Use the Buttons programmed on the Radio
- 12. Try to transmit while someone else is transmitting on P25 trunked (receive tone)
- 13. Transmit until time-out (receive tone)

7.6.2 Specific Calls:

- 1. Transmit (800 MHz) P25 Trunked
- 2. Receive (800 MHz) P25 Trunked
- 3. Transmit (700 MHz) P25 Trunked
- 4. Receive (700 MHz) P25 Trunked
- 5. Transmit (800 MHz) P25 Conventional
- 6. Receive (800 MHz) P25 Conventional
- Transmit (700 MHz) P25 Conventional
- 8. Receive (700 MHz) P25 Conventional

7.6.3 Emergency:

- 1. Emergency declare
- 2. Emergency automatic open mic option 5 seconds
- 3. Emergency Clear
- 4. Receive multiple emergency signals on the same group
- 5. Transmit emergency signal on the same group with an Emergency active (queue state)
- 6. Transmit while talkgroup is in emergency state (receive tone)
- 7. After Transmit, move to another talkgroup (emergency should not follow)
- 8. Encryption:
- 9. Transmit and Receive (800 MHz) P25 Trunked AES OTAR Encryption
- 10. Transmit and Receive (700 MHz) P25 Trunked AES OTAR Encryption
- 11. Over-the-air-encryption (OTAR) AES receiving the warm start of the key
- 12. Reverse Warm Start

7.6.4 Patches:

- Encrypted/Digital
- 2. Encrypted/Encrypted
- 3. Digital/Digital

7.6.5 Simulselects:

- 1. Encrypted/Digital
- 2. Encrypted/Encrypted
- 3. Digital/Digital

7.6.6 Audible Tones:

- 1. Turn-on Radio Tone
- 2. Grant Tone
- 3. Denied Tone
- 4. Queue Tone
- 5. Busy Tone
- 6. Emergency Tone TX
- 7. Emergency Tone RX
- 8. Battery life Tone
- 9. Lost System Tone (CC SCAN)
- 10. Time-out Timer

7.6.7 Radio Adjustments:

- 1. Adjustable Backlight Levels (On/Off/Adjustable)
- 2. Failsoft Display
- 3. Battery Indicator
- 4. Option to RX and not TX
- 5. Personality Security (Blocks access to read or program the radio without Key)
- 6. Ramp Lock (up/down arrow does not wrap around system or group whichever is set)
- 7. Power-Up Keypad Lock (on & off)
- 8. Power-Up Keypad State turn on to a specific (System & Group)
- 9. Power-Up Keypad State turn on to the last used System & Group
- 10. Receive the Disable Command from the Radio Infrastructure (Stolen)
- 11. Receive the Change Coverage Class Command from the Radio Infrastructure (Lost)
- 12, FCC Menu with RF levels
- 13. If system is not available does radio Roam to another P25 System (Enhance CC)
- 14. Priority Option (talking on a talkgroup not on the list to dispatch)

7.6.8 Scan Option:

- 1. Block Scan Feature
- 2. Add Scan Feature to a Group
- 3. Remove Scan Feature to a Group
- 4. Create Scan List
- 5. Turn Scan Feature On/Off

7.6.9 Stealth Mode Options:

- 1. Remove backlight
- 2. Remove all lights
- 3. Remove all tones

7.7 SIGNOFF CERTIFICATE

By their signatures below, the following witnesses certify they have observed the system Acceptance Test Procedures.

Signatures

WITNESS:	Date:
Please Print Name:	
Please Print Title:	Initials:
WITNESS:	Date:
Please Print Name:	
Please Print Title:	Initials:
WITNESS:	Date:
Please Print Name:	
Please Print Title:	Initials:



8.1 EQUIPMENT AND SERVICES

	MSRP	Contract Price
New UHF Fire Radio System Transmit Sites		
Aventura Hospital	\$1,973,708	\$1,857,259
Fire Station 18 / North Miami	\$3,728,568	\$3,508,583
Fire Station 71 / Eureka	\$4,159,623	\$3,876,769
Fire Station 72 / Florida City	\$4,201,947	\$3,962,436
Homestead Air Reserve Base	\$1,057,021	\$976,687
PortMiami	\$2,391,141	\$2,216,588
West Dispatch Channel Expansion		
Expand Coverage to 11 Additional Sites	\$723,791	\$642,726
Existing Site Improvements		
Equipment Shelters (Incl. Generators, Addt'l Fuel Storage, 48v DC, HVAC & Elevated Concrete Platform where applicable)	\$3,996,594	\$3,780,778
Generator Replacements & Fuel Storage	\$1,141,751	\$1,080,096
48v DC Site Backup Power Upgrades	\$1,478,433	\$1,410,425
HVAC Upgrades	\$387,417	\$376,569
UPS Replacements	\$2,527,235	\$2,456,472
System Connectivity – Microwave Links (existing sites)	\$1,985,480	\$1,856,424
Antennas – Sub-Optimal Replacements	\$797,717	\$757,831
Antennas – Legacy Replacements	\$1,052,710	\$1,005,338
ACDY / MIC Sites – Equipment Relocation	\$384,514	\$369,902
LTE System Connectivity		
SmartConnect Gateway	\$397,296	\$182,994
Hosted SmartConnect Backup Install & 5 Years	\$189,500	\$189,500
ASTRO Connectivity Services Install & 5 Years	\$103,349	\$103,349
Subscriber Radio Equipment		
APX NEXT XE Hand-held Radios with Accessories (Qty. 1360) 2 Years of Software & Warranty	\$20,774,989	\$15,190,648
APX8500 Multi-Band Single-Control Head Mobiles & Installations (Qty. 130) 2 Years of Software & Warranty	\$2,128,100	\$1,546,301
APX8500 Multi-Band Dual-Control Head Mobiles & Installations (Qty. 8) 2 Years of Software & Warranty	\$119,640	\$88,838
XR80 Sierra Wireless LTE Modems (Qty. 198)	\$986,091	\$931,994

<u> </u>		June 30, 2022
	MSRP	Contract Price
APX8500 Single-Band Vehicular Radios & Installations (Qty. 60) 2 Years of Software & Warranty	\$636,529	\$488,396
Fielded Mobile Subscriber Smart Services – Years 1 & 2	\$62,784	\$62,784
APX NEXT CAD Interface Integration	\$100,000	\$100,000
Air-to-Ground Video Streaming System		
Vislink Ground-based Receiver System	\$2,373,650	\$2,304,814
Wave Broadband PTT		
 Deployment 200 User Licenses 12 Channel LMR-Broadband Integration 5 Years Licensing 	\$377,420	\$377,420
Genesis System Performance Management		
ATIA, UEM, MCM / PMI, SAM, GADI	\$474,510	\$436,549
Operations Bridge	\$290,157	\$266,944
Project Related Costs		
Warehousing & other Miscellaneous Costs	\$462,723	\$462,723
Subtotal	\$61,586,731	\$52,943,676
Negotiated Subscriber Volume Purchase Incentive		-\$1,361,316
Negotiated MDFR System & Subscriber Discount		-\$3,968,271
Negotiated Large Purchase Incentive		-\$1,673,985
Additional Negotiated APX NEXT CAD Integration Incentive		-\$100,000
Additional Negotiated Hosted SmartConnect Backup Incentive	4	-\$189,500
Additional Negotiated ASTRO Connectivity Services (ACS) Incentive		-\$103,349
Additional Negotiated Wave Broadband PTT Incentive		-\$377,420
Additional Negotiated Subscriber Incentive		-\$484,561
Additional Negotiated Mobile Upgrade Incentive Qty 60 APX6500 to APX8500) Single-Band	-\$57,512
Additional Negotiated Genesis Incentive		-\$113,495
MDFR Total at	fter Incentives	\$44,514,267
Performance Bond		\$269,025
MDFR Total with Perfo	rmance Bond	\$44,783,292
Subscriber Services Outyears 3 - 5 MSRP (1598	Subscribers)	\$2,772,755
Additional Negotiated Subscriber Services Outyears Incentive through Year 5		-\$361,752
Additional Negotiated Cache Subscriber Services Outyears Incentive through (Qty 300 Portables, Qty 12 Mobiles)	Year 5	-\$463,824
Subscriber Services Outyears 3-5 Total at	fter Incentives	\$1,947,179
MDFR Grand Total with Subscriber Services (Validity to Aug		\$46,730,471
Contingency Fund *		\$500,000
MDFR Grand Total with Subscriber Services Outyears 3-5 with Cont (Validity to Aug		\$47,230,471

MSRP	Contract Price
MDFR Grand Total with Subscriber Services Outyears 3-5 (Validity from August 24th, 2022, to October 23rd, 2022)	\$49,908,026

* Contingency Fund - for up to \$500,000 in structural upgrades. Use of these funds will be determined by final structural analysis of existing towers where new Antennas and/or Microwave are being installed and for each new site requiring foundational work. Use of these funds will also be determined by final soil study in new construction site locations. Motorola Solutions will present each analysis, construction plans if an upgrade is needed, and record keeping of all costs incurred for the upgrades. If costs exceed the total funds, the County has the option to remove that item from the project.

8.1.1 Vehicular Device Installation Credits

If MDFR chooses to descope vehicle installation of mobile radios or broadband modems, the following credits would apply:

- \$500 Credit towards APX8500 Mobile radio installation per unit descoped.
- \$370 Credit towards XR80 LTE Modem installation per unit descoped.

8.2 5 YEAR SMART SERVICES AND WARRANTY

8.2.1 Detailed Smart Services & Warranty Outyears 3 - 5

Description	Invoice Amount
Year 1 of Application Services & Warranty ***	Included
Year 2 of Application Services & Warranty ***	Included
Year 3 of Application Services & Warranty ***	\$924,252
Year 4 of Application Services & Warranty ***	\$924,252
Year 5 of Application Services & Warranty ***	\$924,252
Total	\$2,772,755

^{***} Services Included:

- APX NEXT Portables Quantity 1360
 - Advanced Coverage w/Accidental Damage Warranty
 - SmartProgramming Service
 - SmartConnect Service
 - SmartLocate Service
 - SmartMapping Service
 - Smart Messaging Service
- APX 8500 Mobiles Quantity 238 (198 New Radios, 40 Fielded Radios)
 - SmartConnect Service
 - SmartProgramming Service
- CommandCentral Aware Mapping & Messaging Enterprise Licensing
 - Up to 400 Named User Licenses
- Motorola has provided an incentive for free Smart Services through 10 years for the Cache Radios listed below:
 - 300 APX NEXT XE Portables
 - SmartProgramming Service
 - SmartConnect Service
 - ♦ SmartLocate Service
 - SmartMapping Service
 - ♦ Smart Messaging Service
 - 12 APX8500 Mobiles
 - ♦ SmartConnect Service
 - SmartProgramming Service

Continuation of 7.2.1.

Device Type	Service	Qty.	Price / Year	Annual Total	Yrs.	Yrs. 3 – 5
Portables	APX NEXT ADVANCED WITH ACCIDENTAL DAMAGE	1360	\$210	\$286,906	3	\$860,717
Mobile	APX MOBILE WARRANTY	198	Included	Included	-	-
Annual W	arranty Total			\$286,906		
3 Year Wa	arranty Total Warranty Total					\$860,717
Portables	APX NEXT SMART PROGRAMMING	1360	\$75	\$102,000	3	\$306,000
Portables	APX NEXT SMART CONNECT	1360	\$75	\$102,000	3	\$306,000
Portables	APX NEXT SMART LOCATE	1360	\$75	\$102,000	3	\$306,000
Portables	APXNEXT SMART MAPPING	1360	\$75	\$102,000	3	\$306,000
Portables	APXNEXT SMART MESSAGING	1360	\$75	\$102,000	3	\$306,000
Mobile	APX MOBILE SMART PROGRAMMING	307 *	\$144	\$44,208	3	\$132,624
Mobile	APXMOBILE SMART CONNECT	307 *	\$144	\$44,208	3	\$132,624
	CommandCentral Aware User Logins	400	\$119	\$47,622	3	\$142,867
	Command Central Aware Incentive			-\$8,692	3	-\$26,076
Annual Si	mart Services / CommandCentral Aware Login To	tal		\$637,346		
3 Year Sn	nart Services / CommandCentral Aware Login Tot	al				\$1,912,039
Annual W	arranty & Smart Services / CommandCentral Awa	re Log	gin Total	\$924,252		
3 Year Wa	arranty & Smart Services / CommandCentral Awar	re Logi	n Total			\$2,772,756

^{*} Mobile subscriber Smart Service for quantity 307:— Qty. 198 new mobile subscribers

- Qty. 109 existing mobile subscribers

8.2.2 Outyears 6 - 10 is provided only for MDFR planning purposes using guidelines below.

- Initial Years 1 5 unit price per year
 - o Portable Smart Service: \$75 per Smart Service per unit per year
 - o Mobile Smart Service: \$144 per Smart Service per unit per year
 - o Portable Maintenance: \$210 per unit per year
 - o Mobile Maintenance: \$101 per unit per year.
 - o CommandCentral Logins: \$119 per unit per year
- Outyears 6 10 Price Escalation
 - o CPI-based 8.3% escalator in year 6
 - o Inflation-based 3% escalator for years 7 10
- Years 6 10 Incentive Commitment
 - 10% Discount on all maintenance and Smart Services
 - Free Smart Services for designated Cache Radios
 - Qty. 300 Portables
 - Qty. 12 Mobiles

The below table describes Subscriber Maintenance and Smart Services Outyears 6 - 10 projected costs and incentives for planning purposes only per the above guidelines assuming the quantities stated below.

Year	Portable Maintenance	Portable Smart Service	Portable Projected Qty	Mobile Maintenance	Mobile Smart Service	Mobile Projected Qty	CommandCentral Logins	Total Projected
6	\$227	\$406	1,360	\$109	\$312	307	\$51,551	\$1,042,521
7	\$234	\$418	1,360	\$113	\$321	307	\$53,097	\$1,073,796
8	\$241	\$431	1,360	\$116	\$331	307	\$54,690	\$1,106,010
9	\$249	\$444	1,360	\$120	\$341	307	\$56,331	\$1,139,191
10	\$256	\$457	1,360	\$123	\$351	307	\$58,021	\$1,173,366
Projected MSRP Subtotal							ed MSRP Subtotal	\$5,534,884
					Outyea	rs 6 - 10 Ne	egotiated Incentive	-\$553,488
Outyears 6 - 10 Cache Radio Incentive						-\$627,902		
Outyears 6-10 Projected Price							\$4,353,494	
Effective Discount								21%

Continuation of 7.2.2.

Year	Portable Maintenance after Incentive	Portable Smart Service after Incentive	Portable Projected Qty	Mobile Maintenance after Incentive	Mobile Smart Service after Incentive	Mobile Projected Qty	CommandCentral Logins after Incentive	Total Projected after Incentive
6	\$207	\$369	1,060	\$99	\$284	295	\$46,396	\$770,176
6	\$207	\$0	300	\$98	\$0	12	\$0	\$63,227
7	\$213	\$380	1,060	\$102	\$292	295	\$47,788	\$793,281
7	\$213	\$0	300	\$101	\$0	12	\$0	\$65,123
8	\$219	\$392	1,060	\$106	\$301	295	\$49,221	\$817,079
8	\$219	\$0	300	\$104	\$0	12	\$0	\$67,077
9	\$226	\$404	1,060	\$109	\$310	295	\$50,698	\$841,592
9	\$226	\$0	300	\$108	\$0	12	\$0	\$69,100
10	\$233	\$416	1,060	\$112	\$319	295	\$52,219	\$866,839
10	\$233	\$0	300	\$111	\$0	12	\$0	\$71,173
Total Projected Negotiated Price after Incentives						\$4,353,494		

8.3 ASTRO CONNECTIVITY SERVICES FOR SMARTCONNECT

Description	Invoice Amount
Initial Setup	\$25,000
Year 1 of ASTRO Connectivity Services	\$19,466
Year 2 of ASTRO Connectivity Services	\$20,050
Year 3 of ASTRO Connectivity Services	\$20,652
Year 4 of ASTRO Connectivity Services	\$21,271
Year 5 of ASTRO Connectivity Services	\$21,909
Total for Years 1 - 5	\$128,348

Negotiated ASTRO Connectivity Services (ACS) Years 1 - 5 Incentive of \$103,349 applied to equipment purchase as listed in Section 8.1.

Description	Invoice Amount
Year 6 of ASTRO Connectivity Services	\$22,567
Year 7 of ASTRO Connectivity Services	\$23,244
Year 8 of ASTRO Connectivity Services	\$23,941
Year 9 of ASTRO Connectivity Services	\$24,659
Year 10 of ASTRO Connectivity Services	\$25,399
Total for Years 6 - 10	\$119,810

Additional Negotiated ASTRO Connectivity Services (ACS)) Years 6 - 10 Incentive of \$119,810 to Years 6 - 10 as listed in the MDPD terms (Exhibit B) Section 9.3.2 as part of a combined MDFR & MDPD discount totaling \$424,673.

8.4 OPTIONAL FUTURE SERVICES

Description	Deployment & Integration Services	Cost / Device / Yr.	Invoice Amount for 1360 Devices	
APXNEXT CAD Interface	\$100,000	\$75 / Device / Yr.	\$102,000	

The APX NEXT CAD Interface will be available to work with 3rd party CAD providers per Section 2.6.6.

8.5 HOSTED SMARTCONNECT SERVICE

Hosted SmartConnect Service

- One-time Initial Setup of up to 4900 devices
- Annual hosted service for up to 4900 devices

Description	Price
Initial Setup	\$25,000
Year 1 of Hosted SmartConnect	\$31,000
Year 2 of Hosted SmartConnect	\$31,930
Year 3 of Hosted SmartConnect	\$32,887
Year 4 of Hosted SmartConnect	\$33,874
Year 5 of Hosted SmartConnect	\$34,890
Total for Years 1 - 5	\$189,581

Additional Negotiated Hosted SmartConnect Years 1 - 5 Incentive of \$189,500 applied to equipment purchase as listed in Section 8.1.

Description	Price
Year 6 of Hosted SmartConnect	\$35,937
Year 7 of Hosted SmartConnect	\$37,015
Year 8 of Hosted SmartConnect	\$38,126
Year 9 of Hosted SmartConnect	\$39,269
Year 10 of Hosted SmartConnect	\$40,447
Total for Years 6 - 10	\$190,794

Additional Negotiated Hosted SmartConnect Years 6 - 10 Incentive of \$190,794 committed to Years 6 - 10 as listed in MDPD terms (Exhibit B) Section 9.2.2 as part of a combined MDFR & MDPD discount totaling \$424,673.

8.6 VISLINK MAINTENANCE & VISLINK CONNECT AWS GOVERNMENT CLOUD VMS DISTRIBUTION SOLUTION

Description	Price
Year 1 of Vislink Maintenance & Vislink Connect	\$312,500
Year 2 of Vislink Maintenance & Vislink Connect	\$315,250
Year 3 of Vislink Maintenance & Vislink Connect	\$319,295
Year 4 of Vislink Maintenance & Vislink Connect	\$323,386
Year 5 of Vislink Maintenance & Vislink Connect	\$327,525
Year 6 of Vislink Maintenance & Vislink Connect	\$331,714
Year 7 of Vislink Maintenance & Vislink Connect	\$335,953
Services & Warranty & Vislink Connect Total for 7 Yrs.	\$2,265,623

Annual Vislink Maintenance per the Statement of Work in Section 6.10.

8.7 WAVE PRICING

WAVE Push-To-Talk Application.

Years 1 – 5 Pricing	Unit Price / Yr.	Qty.	Duration (Years)	
Initial Setup	\$45,620	1	1	\$45,620
Critical Connect License	\$18,000	1	5	\$90,000
LMR Channel License	\$2400	12	5	\$144,000
End User License (5 included for free)	\$96	195	5	\$93,600
Dispatch License	\$840	1	5	\$4,200
Total				\$377,420

Year 6+ Annual Subscription Cost	Unit Price / Yr.	Qty.	Duration (Years)	
Critical Connect License	\$18,000	1	1	\$90,000
LMR Channel License	\$2400	12	1	\$144,000
End User License (5 included for free)	\$96	195	1	\$18,720
Dispatch License	\$840	1	1	\$840
Total				\$253,560

8.8 GENESIS ESA & LIFECYCLE AGREEMENT

ESA & Lifecycle Agreement for Genesis ATIA, GADI and Operations Bridge.

Description	Price
Year 2 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 3 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 4 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 5 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Total through Year 5	\$533,716

Description	Price
Year 6 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 7 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 8 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 9 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Year 10 of Lifecycle Agreement for ATI, GADI and Operations Bridge	\$133,429
Total Years 6 through Year 10	\$667,145

8.9 PAYMENT MILESTONES

8.9.1 Payment Schedule

Except for a payment that is due on the Effective Date, MDFR will make payments to Motorola Solutions as set forth in the Agreement. Payment for the System purchase will be in accordance with the following milestones.

8.9.2 System Purchase (Excluding Subscribers)

- 1. 15% of the System Price due upon Contract Execution (due upon effective date).
- 2. 14% of the System Price due upon Contract Design Review.
- 3. 2% of the System Price due upon Final Acceptance.
- 4. The below milestones will be invoiced on a Per Site Basis; Number of sites per milestone is pursuant to SOW. Percentage will be divided by number of sites.
 - A. 18% of the System Price due upon Completion & Beneficial Use of New Site Construction (six new sites total).
 - B. 3% of the System Price due upon Completion and beneficial use of Shelter Replacements.
 - C. 8% of the System Price due upon Installation & Beneficial Use of HVAC.
 - D. 5% of the System Price due upon Installation & Beneficial Use of DC Power Systems.
 - E. 5% of the System Price due upon Installation & Beneficial Use of UPS Replacements.
 - F. 4% of the System Price due upon Installation & Beneficial Use of Generator Replacement & Additional Fuel Storage.
 - G. 4% of the System Price due upon Installation & Beneficial Use of Antenna Replacement.
 - H. 10% of the System Price due upon Installation & Beneficial Use of Microwave Hops & MPLS.
 - 5% of the System Price due upon Installation & Beneficial Use of RF Infrastructure at new and replacement shelter sites.
 - J. 3% of the System Price due upon Installation & Beneficial Use of West Channel Expansion.
 - K. 4% of the System Price due upon Installation & Beneficial Use of Vislink System.

8.9.3 Subscribers Purchase

100% of the Subscriber Contract Price will be invoiced upon receipt and acceptance, not to exceed ten (10) calendar days post-delivery (as shipped). Subscribers will be shipped in lots of no more than 500 units, every 10 calendar days, unless mutually agreed.

8.9.4 Lifecycle Support and Subscription Based Services

Motorola Solutions will invoice MDFR annually in advance of each year of the plan.

8.9.5 Partial Shipments

Motorola reserves the right to make partial shipments of subscriber equipment and invoice per Section 8.9.3. Motorola reserves the right to make partial shipments of microwave equipment (milestone item 4h) and invoice per Section 8.9.2. Motorola also reserves the right to invoice per the milestone schedule on a site-by-site basis upon beneficial use. The value of the equipment shipped / services performed will be determined by the value shipped/services performed as a percentage of the total milestone value. Unless otherwise specified, contract discounts are based upon all items proposed and overall system package. For invoicing purposes only, discounts will be applied proportionately to the FNE and Subscriber equipment values to total contract price.

SECTION 9

DISCOUNT SCHEDULE FOR FUTURE EQUIPMENT PURCHASES

Quantities	Discounted Product(s)	Discount
1-499	APX & APX NEXT P25 Radio Equipment 27 APX Radio Accessories 27	
500-999	APX & APX NEXT P25 Radio Equipment APX Radio Accessories	30% 28%
1000-1999	APX & APX NEXT P25 Radio Equipment 33% APX Radio Accessories 29%	
2000 plus	APX & APX NEXT P25 Radio Equipment APX Radio Accessories	35% 30%

Infrastructure, 3rd Party Equipment & Services	Discount
Motorola Fixed Network Equipment	15%
Motorola Drop-ship Equipment	8%
Wireless Broadband Networking & LTE Equipment	5%
Video Security Solutions	5%
Installation, Support & Subscription Services	0%

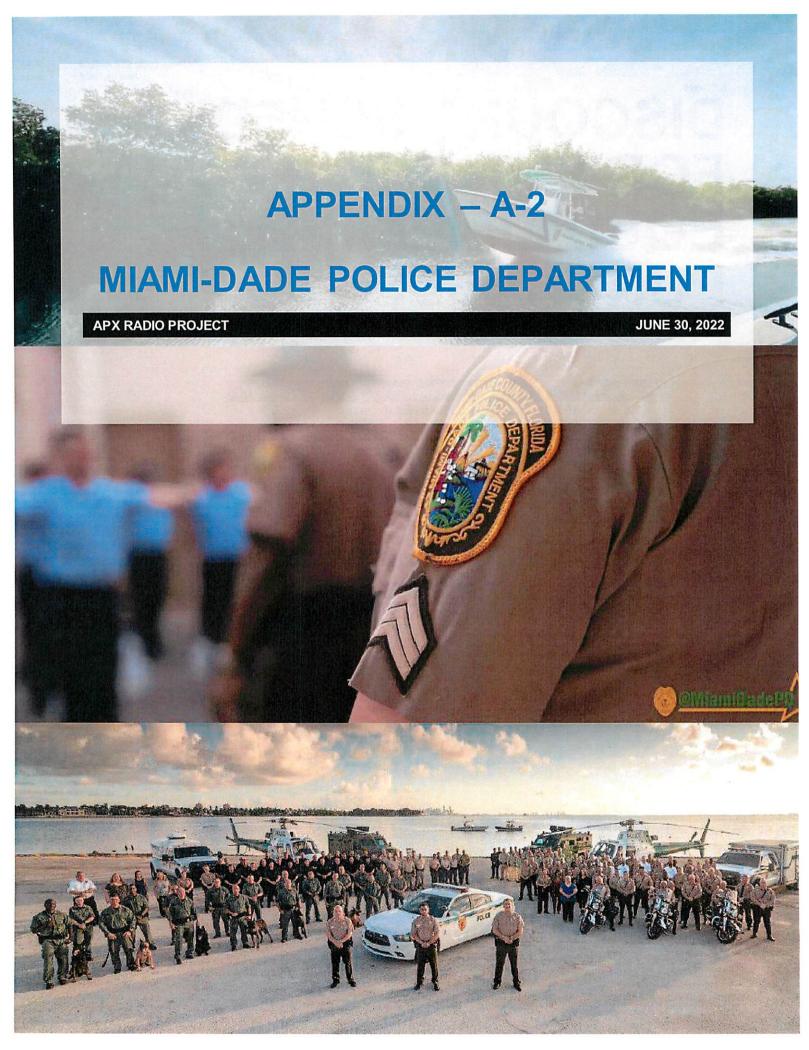


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SOLUTION OVERVIEW

Motorola Solutions, Inc. (Motorola or Motorola Solutions) shall provide the Miami-Dade Police Department (MDPD or County) with the identified hardware and services for Next Generation public safety radio communications for the fixed price and subject to the terms and conditions as set forth herein. Included in the hardware and services are next generation APX NEXT Portable Smart Radios and Mobile radios and Public Safety applications. The next generation radio platform provided to MDPD will enable enhanced capabilities such as Mapping of Radios, Multimedia Messaging and Computer Aided Dispatch (CAD) interaction all enabled via the APX NEXT Portable touch-screen Smart Radio Interface combined with LTE connectivity. The LTE connectivity will also provide Expanded Voice Communications outside of the current radio system coverage area as well as wireless programming of radios. Additionally, the Voice Control capability of the Radio will enable Voice Control of the radio as well as Database Queries via voice through a Virtual Partner.

1.1 VOICE AND DATA FEATURES

The APX NEXT Smart Services ecosystem shall provide the below features described in Table 1-1.

Table 1-1: APX NEXT Ecosystem.

Smart Services		
ViQi Voice Control	SmartLocate	
Enables a radio user to speak voice commands into the radio at the touch of a button to change channels, change volume, or switch to surveillance mode as examples.	Provides location updates every few seconds over Broadband LTE from radios.	
SmartProgramming	SmartConnect	
Enables programming and firmware updates to APX radios without physically connecting to them.	Provides P25 voice connectivity via LTE when outside of the radio coverage footprint.	
SmartMessaging	ViQi Virtual Partner	
Enables multi-media messaging to radios viewable on the touch-screen display to see BOLO's and other critical information immediately.	ViQi Virtual Partner enables a radio user to query a driver's license, a license plate or a VIN, by speaking a query into the radio to a virtual assistant (ViQi). ViQi returns results via voice back to the user enabling an efficient workflow in many scenarios.	
CAD Interface	CommandCentral Aware Mapping & Messaging	
Enables a radio user to interact with a Computer Aided Dispatch system for critical incident updates.	CommandCentral Aware is a cloud-based mapping and messaging client which provides radio locations, situational awareness and interactive multi-media messaging, to include alerts and messaging to and from the Real-Time Crime Center.	

SECTION 2

SOLUTION DESCRIPTION

2.1 APX NEXT RADIO EQUIPMENT

2.1.1 APX NEXT Smart Radio Equipment

Motorola shall provide the APX NEXT Portables, APX 8500 Mobiles, APX Consolettes, Sierra Wireless XR80 Routers and accessories listed in section 7.1.

2.1.2 APX NEXT Bluetooth Remote Speaker Mics

Similar to previous generation Remote Speaker Mics, there will be an option for a wireless Bluetooth version, which is currently under development. The APX NEXT Bluetooth Speaker Mic will be available in Q2 2023 at the latest, but could be commercially available sooner. MDPD will be included in regular meetings with the Motorola product manager (a minimum of every 60 days) for regular product updates and to provide input into the design of the product as it goes through the development process. MDPD shall have the option to obtain the wireless Bluetooth version of the Remote Speaker Mics once available as set forth herein.

2.2 SMART APPLICATION SERVICES

The following Smart Services shall be included for each APX NEXT Portable:

- CommandCentral Aware
- SmartLocate
- SmartMapping
- SmartProgramming
- SmartMessaging
- SmartConnect

The retention period for location data in CommandCentral Aware mapping is configurable via the CommandCentral Admin tool. CommandCentral Aware can be configured to store up to 12 weeks of location data or can be configured not to store any data at all. The retention time is configurable and can also be set to 9 weeks to match what MDPD Police currently uses on its AVL System. The CommandCentral Aware historic map can be exported into a KMZ file for use in GoogleEarth. There is no limit to the amount of data stored nor is there a charge for the retrieval of data. CommandCentral Aware is also compatible with Microsoft Active Directory and Active Directory File System (ADFS).

2.2.1 SmartConnect

A Motorola P25 ASTRO Core along with an ISSI 8000 Connection and SmartConnect Gateway shall be included to connect to P25 Systems via ISSI and enable roaming to LTE through SmartConnect.

2.2.2 ASTRO 25 Core

The ASTRO® Master Site being provided shall contain redundant server and transport hardware. Each core will contain two core servers, two Edge Routers, two Core LAN switches, and two Backhaul switches. The standard core configuration shall also contain a Gateway GPRS Support Node (GGSN) and Border Router to support data operations and CEN server to host optional software licensed features.

The ISSI 8000 Gateway resides on the core servers with the Master Site. It runs in a virtual container. The mandatory InterSystem Firewall shall provide network address translation, protects the zone core from unauthorized traffic on the ISSI link and optionally provides encryption on the connection to the foreign system.

2.2.3 Secondary SmartConnect Fallback

In addition to having SmartConnect to extend coverage with the MDPD Radio System, Motorola shall provide hosted backup channels in the SmartConnect cloud for MDPD. This will provide a fallback set of LTE SmartConnect channels that MDPD can revert if primary communications are lost.

2.2.4 CAD Interface

The APX NEXT CAD Interface is a vendor agnostic CAD interface for APX NEXT to bring in real-time message to the APX NEXT platform including but not limited to:

- Providing Incident Information such as incident number, location, hazards, nature of call, incident updates and associated multi-media.
- Bi-directional communications which allow the officer to provide updates to the dispatcher such as status updates and emergency notifications.
- Notification to the dispatcher when the Emergency Button is activated.
- Personnel level tracking to CAD, with configurable location updates (dynamic location updates).
- Unit Management: Allow APX NEXT users to assign themselves to a different unit, from the device. The new unit assignment information should propagate to the rest of the CAD system and to the map (CC Aware and SmartMapping).

The APX NEXT CAD Interface functionality detailed above shall be available per Section 2.2.11. Motorola shall provide either an API or an SDK to MDPD allowing MDPD to share with any CAD vendor for integration with APX NEXT portables. The API document or SDK shall be made available to the agency either via a pdf document or with the SDK placed in escrow. As Motorola develops the solution for the APX NEXT CAD Interface, MDPD will be included in discussions to help validate the solution.

MDPD requires the capability to interoperate between Motorola PremierOne CAD (utilized by MDPD) and its future CAD and CAD Data Exchange Hub (DEH). The CAD to CAD

Interface & DEH interface solutions shall allow integration between MDPD Police Department and the selected CAD for MDPD. The DEH interface shall allow additional agencies to interface these CAD solutions, regardless of vendor. This bidirectional exchange of information shall provide first responders with the ability to share information and data in a reliable and secure manner to save lives, preserve property, and ensure that proper communications systems and processes are available on demand to support organized emergency response. Motorola shall provide the interfaces, at a cost to the County of \$100,000 per interface.

2.2.5 CommandCentral Device Login Feature

Motorola Solutions shall provide, as set forth below in Section 2.2.6, the ability to remotely log in/out the APX NEXT devices into CommandCentral without the need for end-users to enter an email username and password and prevent the end-users from having the ability to log in/out from the radio.

2.2.6 Feature Availability

- SmartMessaging PDF Support Available in 2023
- Multi-System OTAR Available in 2023
- APX NEXT CAD Interface Available in 2024
- ViQi Virtual Partner Available once approved by FDLE
- CommandCentral Device Login Feature Available in 2024
- Multiple Code Plug Feature Available in 2024

STATEMENT OF WORK

3.1 GENERAL RESPONSIBILITIES

The Miami-Dade Police Department (MDPD) and Motorola Solutions shall each assign a Project Manager to coordinate the timely execution of the activities and duties of their respective organizations.

Unless otherwise noted, Motorola Solutions and its contractors shall work during normal working hours (Monday to Friday, 8 am to 5 pm, excluding holidays).

3.2 P25 MASTER SITE WITH ISSI, SMARTCONNECT AND LOCATION SUBSYSTEMS

3.2.1 Locations

- LightSpeed Dispatch Center
- Backup Dispatch Center (5680 SW 87 Ave)
- TCC (6010 SW 87 Ave)

3.2.2 Motorola Solutions Responsibilities

Motorola Solutions shall furnish, install, configure and test the following equipment at LightSpeed (detailed in Section 6 and Section 8):

- Motorola Solutions P25 Core with ISSI and SmartConnect functionality.
- Network switches and firewalls.
- AirLink Connection Manager Server.
- CommandCentral Aware Cloud connect server (with cold standby).
- Provision the new APX NEXT portable and APX mobile, and APX Consolette radios into the Motorola Solutions P25 Core.
- Provision the APX NEXT portable and APX mobile units into the CommandCentral Aware mapping system.
- Install one (1) ASTRO Connectivity Service (ACS) circuit at LightSpeed, including outdoor LTE antenna.
- Install one (1) ASTRO Connectivity Service (ACS) circuit at TCC, including outdoor LTE antenna.

3.2.3 Miami-Dade County Responsibilities

- Internet connection in the equipment room of the installed Motorola Solutions equipment.
- Necessary labor, software, features, core equipment and networking equipment are installed, tested and working on the existing Miami-Dade County 800MHz P25 system core to support ISSI operation.
- Provide personnel to assist in end-to-end configuration and testing of the existing Miami-Dade County 800MHz P25 system core to Motorola core ISSI connection.
- Provide personnel to assist in the provisioning of the new radio units into the existing Miami-Dade County 800MHz P25 system.
- Backup power. Provide access and escorts to Motorola Solutions as required for the installation locations.
- At LightSpeed:
 - Sufficient rack space is available in the equipment room.
 - Unused AC outlets in the floor beneath the racks are working and available for use by the Motorola Solutions equipment.
 - Sufficient space and AC power are available to install Customer Premise Equipment associated with the ACS circuit.
 - Existing dispatch workstations have access to the Internet and browsers compatible with the CommandCentral Aware mapping web interface.
- At 5680 SW 87 Ave:
 - Existing dispatch workstations have access to the Internet and browsers compatible with the CommandCentral Aware mapping web interface.
- At TCC:
 - Sufficient space and AC power are available to install Customer Premise Equipment (CPE) associated with the ACS circuit.

3.3 BACKUP CONTROL STATIONS (LIGHTSPEED DISPATCH)

3.3.1 Motorola Solutions Responsibilities

Motorola Solutions shall furnish, install and configure the following equipment at LightSpeed (detailed in Section 6):

- Twenty-Six (26) APX Consolette Stations.
- Twenty-Six (26) MCD5000 Desksets.
- Three (3) LAN Switches.
- Three (3) Backup LTE Modems.
- Three (3) Backup LTE Antenna Systems mounted on the roof.

3.3.2 MDPD Responsibilities

Move Police Department dispatch operations to the backup location for approximately 3
days in order to ensure Motorola Solutions installation work does not interfere with the work
of the telecommunicators.

- Internet connection in the equipment room within 75-feet of the installed Motorola Solutions equipment.
- Backup power.
- Provide access and escorts to Motorola Solutions as required for the installation locations.
- MDPD shall provide Alternate Control Set (AC Set) connection to logging system.
- MDPD shall provide 120 VAC outlet at each operator position.
- MDPD shall provide unused AC outlets in the floor beneath the racks are working and available.
- MDPD shall provide access to existing 700/800 MHz control station antenna system.
- MDPD shall provide access to Row 1, racks 6, 7, 8 and 9 to be used for the backup control station equipment.

3.4 BACKUP CONTROL STATIONS (AT BACKUP DISPATCH, 5680 SW 87 AVE)

3.4.1 Motorola Solutions Responsibilities

Motorola Solutions shall furnish, install and configure the following equipment at 5860 SW 87 Ave (detailed in Section 6)

- Seventeen (17) APX Consolette Stations.
- Seventeen (17) MCD5000 Desksets.
- Two (2) LAN Switches.
- Two (2) Backup LTE Modems.
- Two (2) Backup LTE Antenna Systems mounted inside.
- Install the necessary AC circuits from the existing breaker panel(s) to the cabinet locations.
- Install AC distribution equipment within the existing cabinets.

3.4.2 MDPD Responsibilities

- Backup power.
- Provide access and escorts to Motorola Solutions as required for the installation locations.
- MDPD shall provide Alternate Control Set (AC Set) connection to logging system.
- MDPD shall provide 120 VAC outlet at each operator position.
- MDPD shall provide sufficient capacity to accommodate the necessary Motorola Solutions installed AC circuits.
- MDPD shall provide access to existing 700/800 MHz control station antenna system.
- MDPD shall provide access to the existing three racks to remove the existing backup radios and to install the Motorola backup APX Consolettes.

Motorola Solutions

3.5 MOBILE AND PORTABLE RADIO PROGRAMMING AND INSTALLATION

3.5.1 Motorola Solutions Responsibilities

Motorola Solutions shall furnish the following equipment (detailed in Section 6) and services as set forth herein:

- 4690 APX NEXT Single-band portable radios.
- 250 APX NEXT Multi-band radios.
- 2670 APX Single-band mobile radios.
- 30 APX Multi-band mobile radios.
- 50 APX Single-band mobile radios for motorcycles.

(The above quantities include spares.)

Configuration and Programming

- Work with MDPD to create up to a total of 50 templates to be used across the various radio models.
- Create up to a total of 50 code plugs for the various radio models.
- Create a test set of up to a total of 25 radios to verify template and codeplugs.
- Make necessary revisions to the templates and codeplugs after testing to arrive at final configurations.
- Program the balance of the radios once using the final template and codeplugs.
- Load each radio once with a Unique Key Encryption Key (UKEK).
- Test each radio after programming.

Initial Installation of Mobile Radios (up to 2462 vehicles)

- Work with MDPD personnel to schedule and coordinate the mobile installation effort.
- Coordinate with MDPD at a designated location within MDPD to map out and perform sample installations on up to 5 vehicles prior to the overall installation effort.
- These sample installations will be used to build the template (to be agreed upon with Miami-Dade) for all other vehicles and to train the installation crews on a consistent approach.
- Provide trucks and labor to transport mobile radios from a central receiving location to the temporary installation bays.
- Remove existing mobile radios and install mobile radios at these temporary installation bays.
- Test mobile radio installations.
- Place the removed mobile radios at a spot within the temporary installation bay facility.
- Provide weekly progress and test reports to MDPD.
- Note: This does not include any installations of Motorcycles, Boats, Aircraft or other nonstandard MDPD vehicles.
- Installations will be warrantied for 1 Year from the time of initial installation
- Any issues arising as a result of a defect in workmanship will be covered for a period of one year.
- Motorola, at its discretion, will either provide repair services on-site in Miami-Dade or reimburse MDPD for repair services for up to 2 hours of labor at \$220 total (\$110 hourly rate) for installation or equipment defects. In cases where an individual vehicle needs to be returned to service immediately, MDPD has the option to obtain immediate repair services

- from any service provider and Motorola shall reimburse MDPD for repair services for up to 2 hours of labor at \$220 total (\$110 hourly rate).
- Exclusions to this would be issues relating to the equipment defects which will be remedied under the warranty being provided on radio and LTE products as outlined in Section 5 SERVICE / WARRANTY (5.3.2 APX Mobile Radio and 5.3.4 Sierra Wireless LTE Modems).

3.5.2 MDPD Responsibilities

- Provide a MDPD project manager (single point of contact) to coordinate the MDPD activities throughout the installation effort.
- Work with Motorola Solutions to design and test the necessary programming templates for all radios.
- Provide a central facility to receive and program all mobile and portable radios, including sufficient space, security and AC power.
- Provide one temporary installation bay consisting of a tent and other equipment including sufficient air conditioning or outdoor coolers to support the installation of mobile radios into vehicles. This installation bay will be erected and removed at up to 10 locations within MDPD County to support mobile radio installations at the various MDPD district stations.
- Provide suitable physical space for installation of the temporary installation bays at the various locations around the county.
- Provide security for the temporary installation bays outside of working hours.
- Provide sufficient AC power hookups and/or generators to the temporary installation bays.
- Make available at the temporary installation bay at least 12 vehicles per day, 6 days per week (Monday to Saturday) for the installation work (6 vehicles for the day shift (6 am to 2 pm) and 6 vehicles for the evening shift (2 pm to 10 pm)). This will be a continuous effort at each location. There will be down time for installation bay relocation when moving between locations.
- Provide the necessary access and escorts to the installation locations.
- Provide for transportation and storage of MDPD radio equipment to the installation sites.
- Removal and disposal of mobile radios removed from vehicles and left at each of the district stations.
- Miami-Dade ITD, as approved by MDPD, will provide quality assurance for the vehicular installation of each mobile radio for MDPD.
- MDPD shall approve use of the hole in the vehicle for the existing LMR antenna to be reused for the new LMR antenna.
- MDPD shall approve a new hole for the LTE modem antenna to be drilled into the roof of the vehicles.
- MDPD agrees that connections to sirens and lights are separate and outside the scope of this project.

SECTION 4

ACCEPTANCE TEST PLAN

4.1 SMARTMAPPING

4.1.1 Display Location on APX NEXT

1. DESCRIPTION

Radio location of other remote APXNext deviceswill be displayed on APXNext.

SETUP

Radio 1 and Radio 2 will have SmartMapping enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to display SmartMapping layers.

VERSION #1.000

2. TEST

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Zoom out on Radio 1 SmartMapping map and see other radio's location (e.g. Radio 2) displayed.

4.1.2 Display Location of Radio in Emergency

1. DESCRIPTION

Radio location of other remote APXNext devices will be displayed on APXNext.

SETUP

Radio 1 and Radio 2 will have SmartMapping enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to diplay SmartMapping layers.

VERSION #1.000

2. TEST

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Initiate an emergency alarm from Radio 2 and observe the icon on the Radio 1's display map indicating an emergency.
- Step 3. Clear the emergency and observe the icon revert.

Pass____Fail___

4.2 SMARTLOCATE

4.2.1 Display Location of APX NEXT

1. DESCRIPTION

Radio location of other remote APX Next devices will be displayed on Command Central Aware.

SETUP

Radio 1 and Radio 2 will have SmartLocate enabled.

Configure APXNext devices to enable location in its programming. Configure users in CommandCentral Aware to diplay SmartLocation layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Login to CCAware via Chrome browser
- Step 3. Zoom out on CommandCentral Aware map and see radio locations (e.g. Radio 1) displayed.
- Step 4. Move radio users in the field and observe accurate movement of the radio location icons
- Step 5. Turn off radios and observe the icons disappear from the map

Pass	Fail
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4.2.2 Display Location of Radio in Emergency

1. DESCRIPTION

Radio location of other remote APX Next devices will be displayed on Command Central Aware.

SETUP

Radio 1 and Radio 2 will have SmartLocate enabled.

Configure APX Next devices to enable location in its programming. Configure users in CommandCentral Aware to diplay SmartLocation layers.

VERSION #1.000

- Step 1. Power on all radios and allow radios to achieve location (GPS) lock. Open map widget on radio and confirm user's radio location is accurate.
- Step 2. Login to CCAware via Chrome browser
- Step 3. Zoom out on CommandCentral Aware map and see radio locations (e.g. Radio 1) displayed.
- Step 3. Initiate and emergency alarm from Radio 2 and observe the icon change, indicating an emergency.
- Step 4. Clear the emergency and observe the icon revert.

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4.3 SMARTMESSAGING

4.3.1 Send Multimedia File to a Radio

1. DESCRIPTION

Messages can be sent/received by APXNext Devices.

SETUP

Radios will have SmartMessaging enabled.

SmartMessaging client will be configured.

VERSION #1.000

- Step 1. Login to Dispatch Messaging Client
- Step 2. Power on target radios
- Step 3. Send a Multimedia file (JPG) from the Dispatch Messaging Client software to Radio 1. Confirm the file is received at Radio 1.
- Step 4. Radio 1 will respond back with a freeform text acknowledgement. Confirm the response is received at the Dispatch Messaging Client.

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4.3.2 Send Multimedia File to a Group of Radios

1. DESCRIPTION

Messages can be sent/received by APXNext Devices.

SETUP

Radios (Radio 1, Radio 2, Radio 3) will have SmartMessaging enabled.

SmartMessaging client will be configured.

VERSION #1.000

2. TEST

- Step 1. Login to Dispatch Messaging Client
- Step 2. Power on target radios
- Step 3. Send a Multimedia file (JPG) from the Dispatch Messaging Client software to a group of Radios (Radio 1, Radio 2, Radio 3)
- Step 4. Confirm the file is received at all radios.

Pass____Fail___

4.4 SMARTPROGRAMMING

4.4.1 Program a single APX NEXT radio

1. DESCRIPTION

Radios can be programmed and managed wirelessly from a central environment.

SETUP

Radio 1 will have SmartProgramming enabled and be provisioned in the same RadioCentral agency as the RadioCentral programmer.

VERSION #1.000

2. TEST

- Step 1. Login to Radio Central application
- Step 2. Power on target radios
- Step 3. Change the alias of Radio 1 in the RadioCentral Application. This will create a configuration delta.
- Step 4. Initiate a programming (write) of Radio 1.
- Step 5. Confirm receipt of the programming job at the radio.
- Step 6. Accept and install the programming job from the radio.
- Step 7. Following the update, observe the radio programming has successfully been modified.

Pass____Fail___

4.4.2 Program multiple APX NEXT Radios

1. DESCRIPTION

Multiple radios can be programmed and managed wirelessly from a central environment.

SETUP

Radio 1 and Radio 2 will have SmartProgramming enabled and be provisioned in the same RadioCentral agency as the RadioCentral programmer. Radio 1 and 2 will share a common configuration (template).

VERSION #1.000

- Step 1. Login to Radio Central application
- Step 2. Power on target radios
- Step 3. Change a configuration parameter of Radio 1 and Radio 2 in the RadioCentral Application. This will create a configuration delta for all radios utilizing that configuration.
- Step 4. Initiate a programming (write) for Radio 1 and Radio 2.
- Step 5. Confirm receipt of the programming job at the radios.
- Step 6. Accept and install the programming job from the radios.
- Step 7. Following the update, observe the radios programming has successfully been modified.

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4.5 SMARTCONNECT

4.5.1 SmartConnect Subscriber Mobility Manual Switchover to Broadband

1. DESCRIPTION

Upon losing LMR RF coverage and no other LMR sites are available, a user may choose to manually switch to a SmartConnect site by selecting a personality configured as "Broadband Only".

The broadband access type used is dependent on the capabilities/configuration of the radio.

The following test demonstrates manual switchover between LMR and SmartConnect.

SETUP

RADIO-1 – TALKGROUP 1", "LMR Only" (personality 1)

RADIO-1 – TALKGROUP 1", "Broadband Only" (personality 2)

RADIO-2 - TALKGROUP 1, "LMR Only" CONSOLE-1 - TALKGROUP 1

2. TEST

- Step 1. With RADIO-1 and RADIO-2 on LMR Site 1, initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 2. Observe that RADIO-2 and CONSOLE-1 will be able to receive and respond to the call. Dekey RADIO-1.
- Step 3. Change RADIO-1 to a "Broadband Only" personality for TALKGROUP 1.
- Step 4. Observe that RADIO-1 moves to the broadband SITE 2 and displays the SmartConnect banner. The radio may briefly display "Out of Range" during this transition.
- Step 5. Initiate a Wide Area Call from RADIO-1 on TALKGROUP 1.
- Step 6. Observe that RADIO-2 and CONSOLE-1 are able to receive and respond to the call.
- Step 7. Dekey RADIO-1 and select the "LMR Only" personality.
- Step 8. Observe that RADIO-1 moves back to LMR SITE 1 and no longer displays the SmartConnect banner.
- Step 9. Observe that RADIO-2 and CONSOLE-1 are still able to receive and respond to calls from RADIO-1.

Pass Fail

VERSION #1.010

4.5.2 SmartConnect - Wide Area Trunking - Talkgroup Call

1. DESCRIPTION

The Talkgroup is the primary level of organization for communications on a trunked radio system. Radios with Talkgroup call capability will be able to communicate with other members of the same Talkgroup.

This test will demonstrate that a Talkgroup transmission initiated by a radio user will only be heard by system users, which have, the same Talkgroup selected. As with other types of calls, Talkgroup calls can take place from anywhere in the system.

SETUP

RADIO-1 – TALKGROUP 1 RADIO-1 – LMR SITE 1

RADIO-2 – TALKGROUP 1 RADIO-2 – BROADBAND SITE 2

RADIO-3 - TALKGROUP 2 RADIO-3 - LMR SITE 1

RADIO-4 - TALKGROUP 2 RADIO-4 - BROADBAND SITE 2

VERSION #1.010

2. TEST

- Step 1. Initiate a Wide Area Call with RADIO-1 in TALKGROUP 1.
- Step 2. Observe that only RADIO-2 will be able to monitor and respond to the call.
- Step 3. Initiate a Wide Area Call with RADIO-3 in TALKGROUP 2.
- Step 4. Observe that only RADIO-4 will be able to monitor and respond the call.

4.5.3 SmartConnect - Wide Area Trunking - Secure Operation

1. DESCRIPTION

Digital encryption is used to scramble a transmission so only properly equipped and configured radios can monitor the conversation. A "Key" is used to encrypt the transmit audio. Only radios with the same "Key" can decrypt the audio and listen to it.

SETUP

RADIO-1 - TALKGROUP 1 (SECURE TXMODE)

RADIO-2 - TALKGROUP 1 (SECURE TXMODE)

RADIO-3 - TALKGROUP 1 (SECURE MODE and no, or incorrect key)

RADIO-4 - TALKGROUP 1 (Clear TX Mode)

Notes:

- The identical secure mode must be programmed into RADIO-1, RADIO-2, RADIO-4 and that RADIO-3 has no secure code loaded or has a unique secure code from the other testing radios.
- Execute this test with all radios on the broadband site.

VERSION #1.010

- Step 1. Initiate a secure wide area call with RADIO-1 on TALKGROUP 1. Keep this call in progress until instructed to end the call.
- Step 2. Observe that RADIO-2 will be able to monitor the call.
- Step 3. Observe that RADIO-3 does not receive the call.
- Step 4. Observe that RADIO-4 will also receive the call even with the secure switch set to the non-secure mode of operation.
- Step 5. End the call from RADIO-1.
- Step 6. Respond with RADIO-2 and verify that RADIO-1 and RADIO-4 receive the response audio but RADIO-3 cannot.

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4.6 MCC 7100/7500 TRUNKED RESOURCES

4.6.1 Instant Transmit

1. DESCRIPTION

The instant transmit switch provides immediate operator access to a channel, independent of its select status (selected or unselected). It provides priority over other dispatcher transmit bars or optional footswitches.

SETUP

For this test all radios will be APX Next, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 CONSOLE-1 – TALKGROUP 1 (Selected), TALKGROUP 2 (Unselect mode)

VERSION #1.010

2. TEST

- Step 1. Using CONSOLE-1, press the Instant Transmit button on TALKGROUP 1.
- Step 2. Verify that the Transmit indicator is lit.
- Step 3. Verify RADIO-1 can monitor and respond to the call on TALKGROUP 1.
- Step 4. On RADIO-1 change to TALKGROUP 2.
- Step 5. Using CONSOLE-1, press the Instant Transmit button on the TALKGROUP 2 radio resource.
- Step 6. Verify RADIO-1 can monitor and respond to the call on TALKGROUP 2.

4.6.2 Talkgroup Selection and Call

1. DESCRIPTION

The Talkgroup Call is the primary level of organization for communications on a trunked radio system. Dispatchers with Talkgroup Call capability will be able to communicate with other members of the same talkgroup. This provides the effect of an assigned channel down to the talkgroup level. When a Talkgroup Call is initiated from a subscriber unit, the call is indicated on each dispatch operator position that has a channel control resource associated with the unit's channel/talkgroup.

SETUP

For this test all radios will be APX Next, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 RADIO-2 - TALKGROUP 2 RADIO-3 - TALKGROUP 1 RADIO-4 - TALKGROUP 2 CONSOLE-1 - TALKGROUP 1 CONSOLE-2 - TALKGROUP 2

VERSION #1.010

2. TEST

- Step 1. Initiate a wide area call from CONSOLE-1 on TALKGROUP 1.
- Step 2. Observe that RADIO-1 and RADIO-3 will be able to monitor the call. Dekey the console and have either radio respond to the call.
- Step 3. Observe that all consoles with TALKGROUP 1 can monitor both sides of the conversation.
- Step 4. Initiate a wide area call from CONSOLE-2 on TALKGROUP 2.
- Step 5. Observe that RADIO-2 and RADIO-4 will be able to monitor the call. Dekey the console and have either radio respond to the call.
- Step 6. Observe that all consoles with TALKGROUP 2 can monitor both sides of the conversation.

4.6.3 Talkgroup Selection and Call - Secure

1. DESCRIPTION

The Talkgroup Call is the primary level of organization for communications on a trunked radio system. Dispatchers with Talkgroup Call capability will be able to communicate with other members of the same talkgroup. This provides the effect of an assigned channel down to the talkgroup level. When a Talkgroup Call is initiated from a subscriber unit, the call is indicated on each dispatch operator position that has a channel control resource associated with the unit's channel/talkgroup. Digital encryption is used so only properly equipped and configured subscribers can monitor the conversation. A "Key" is used to encrypt the transmit audio. Only radios and Consoles with the same "Key" can decrypt the audio and listen to it.

SETUP

For this test all radios will be APXNext, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 (Secure TX Mode)
RADIO-2 - TALKGROUP 2 (Secure TX Mode)
RADIO-3 - TALKGROUP 2 (No Keys)
RADIO-4 - TALKGROUP 1 (Clear TX Mode with
Keys loaded)
CONSOLE-1 - TALKGROUP 1 and TALKGROUP 2
(Secure TX Mode)

VERSION #1.040

2. TEST

- Step 1. Initiate a wide area secure call from CONSOLE-1 on TALKGROUP 1.
- Step 2. Verify RADIO-1 can monitor and respond to the secure call.
- Step 3. Verify RADIO-4 can monitor and respond to the secure call because even though it is in clear mode the correct encryption keys are loaded for the secure call.
- Step 4. Initiate a wide area secure call from CONSOLE-1 on TALKGROUP 2.
- Step 5. Verify that RADIO-2 can monitor and respond to the secure call. Note that RADIO-3 cannot monitor the call.

4.6.4 PTT Unit ID/Alias Display

1. DESCRIPTION

Console operator positions contain various resources such as talkgroup, multigroup, Private Call which enables the dispatcher to communicate with the subscriber units. If activity occurs on one of these operator position resources, the unit ID or associated alias of the initiating radio appears at the console resource.

SETUP

For this test all radios will be APX Next, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 RADIO-2 - TALKGROUP 1 CONSOLE-1 - TALKGROUP 1 CONSOLE-2 - TALKGROUP 1

VERSION #1.010

2. TEST

- Step 1. Select the resource for TALKGROUP 1 on CONSOLE-1.
- Step 2. Initiate a call on TALKGROUP 1 from RADIO-2 and observe that the alias is seen at CONSOLE-1 in the resource window as well as in the Activity Log window.
- Step 3. Initiate a call from RADIO-1 and observe that the alias of RADIO-1 is seen at CONSOLE-1 in the resource window as well as in the Activity Log window.
- Step 4. Modify RADIO-2's alias. Make sure to give enough time for the alias change to propagate to the Zone Controller.
- Step 5. Initiate a call from RADIO-2 and observe the new alias of RADIO-2 is seen at CONSOLE-1 in the list in the resource window as well as in the Activity Log window.
- Step 6. Return RADIO-2's alias to its original state.

4.6.5 Multi-Select Operation

1. DESCRIPTION

Multi-Select (Msel) allows the console operator to group a number of channels/talkgroups together such that when the general transmit bar is depressed, all of the multi-selected channels/talkgroups will transmit at the same time with the same information. Multi-Select is one way communication call. If a radio user responds to a Multi-Select call the talkgroup the user is affiliated to will be the only one to hear the call. There is no super-group formed, so radio communication is still at the single talkgroup level. Multi-Select is utilized to send an APB to several channels/talkgroups. A Multi-Select has a limit of twenty (20) trunking/conventional resources

SETUP

For this test all radios will be APX Next, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 RADIO-2 - TALKGROUP 2 CONSOLE-1 - TALKGROUP 1, TALKGROUP 2

VERSION #1.010

2. TEST

- Step 1. From CONSOLE-1, create an Msel group with TALKGROUP 1 and TALKGROUP 2.
- Step 2. Transmit on the Msel using the Msel instant transmit button.
- Step 3. Verify that RADIO-1 and RADIO-2 hear the call.
- Step 4. Initiate a call with RADIO-1.
- Step 5. Verify the call is heard on CONSOLE-1 but not on RADIO-2.
- Step 6. Initiate a call with RADIO-2.
- Step 7. Verify the call is heard on CONSOLE-1 but not on RADIO-1.
- Step 8. On CONSOLE-1 dissolve the Msel.

4.6.6 Talkgroup Patch

1. DESCRIPTION

Talkgroup Patch allows a dispatcher to merge several talkgroups together on one wice channel to participate in a single conversation. This can be used for situations involving two or more talkgroups that need to communicate with each other. Using the Patch feature, the console operator can talk and listen to all of the selected talkgroups grouped; in addition, the members of the individual talkgroups can also talk or listen to members of other talkgroups.

SETUP

For this test all radios will be APXNext, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 RADIO-2 - TALKGROUP 2 RADIO-3 - TALKGROUP 1 RADIO-4 - TALKGROUP 2 CONSOLE-1 - TALKGROUP 1 and TALKGROUP 2

Note: All 4 Radios must have the same home zone.

VERSION #1.010

2. TEST

- Step 1. Using CONSOLE-1 create a patch between TALKGROUP 1 and TALKGROUP 2.
- Step 2. Initiate a patch call from CONSOLE-1.
- Step 3. Verify RADIO-1, RADIO-2, RADIO-3, and RADIO-4 can monitor the call.
- Step 4. Initiate several calls between the radios and verify successful communication.
- Step 5. Dissolve the patch created in step 1.

4.6.7 Call Alert

1. DESCRIPTION

Call Alert Page allows a subscriber/dispatcher to selectively alert another radio unit. The initiating subscriber/console will receive notification as to whether or not the call alert was received. Units receiving a Call Alert will sound an alert tone and show a visual alert indication. The display will also show the individual ID of the initiating subscriber/console unit.

SETUP

For this test all radios will be APX Next, utilizing the SmartConnect site from the ASTRO system connected to the Console(s)

RADIO-1 - TALKGROUP 1 CONSOLE-1 - TALKGROUP 1

VERSION #1.030

2. TEST

- Step 1. Using CONSOLE-1, select the call alert button in the "Private Call" resource window.
- Step 2. Enter the ID of RADIO-1 and send the call alert to RADIO-1.
- Step 3. Verify that RADIO-1 receives the alert and that the ID or alias of the console is shown.
- Step 4. Turn off RADIO-1.
- Step 5. Using CONSOLE-1, send the call alert to RADIO-1 again.
- Step 6. Verify that after trying to page RADIO-1, the console displays "Can not send call alert target not found" in the summary/status list.

4.7 MCC 7100/7500 CONVENTIONAL RESOURCES

4.7.1 Conventional Call Analog (Using a Test Set)

1. DESCRIPTION

A conventional station can be integrated into a trunking system by placing a conventional resource on the consoles. This allows the user to dispatch and patch the conventional station with the desired talkgroups.

This test will demonstrate the audio output at the Conventional Channel GateWay (CCGW) using a test set in those cases where the attached device is not available.

SETUP

CONSOLE-1 - CONVENTIONAL CHANNEL 1 and CONVENTIONAL CHANNEL 2

Connect a transmission test set to the port that corresponds to CONVENTIONAL CHANNEL 1 in the Console Position.

Note: Each RJ45 receptacle on the Analog Module of the Conventional Channel GateWay (CCGW) represents a possible resource, pins 1 and 2 are for RX audio, and pins 4 and 5 are for TX audio.

VERSION #1.030

- Step 1. Connect a transmission test set to the output of the port corresponding to CONVENTIONAL CHANNEL 1 on CONSOLE-1.
- Step 2. Using CONSOLE-1, initiate a call on CONVENTIONAL CHANNEL 1 and verify Transmit audio is heard through the transmission test set.
- Step 3. Using the test set, inject a test tone into the input of CONVENTIONAL CHANNEL 1.
- Step 4. Verify the CONVENTIONAL CHANNEL 1 resource receives the tone in the appropriate speaker.
- Step 5. Connect a transmission test set to the output of the port corresponding to CONVENTIONAL CHANNEL 2 on CONSOLE-1.
- Step 6. Using CONSOLE-1, initiate a call on CONVENTIONAL CHANNEL 2 and verify Transmit audio is heard through the transmission test set.
- Step 7. Using the test set, inject a test tone into the input of CONVENTIONAL CHANNEL 2.
- Step 8. Verify the CONVENTIONAL CHANNEL 2 resource receives the tone in the appropriate speaker.

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4.8 ISSI 8000

4.8.1 Manual Roaming - Talkgroup Call

1. DESCRIPTION

This test demonstrates that after a console in the local system patches a home talkgroup with a foreign talkgroup, when the console initiates a patch call on the patched talkgroups, the call can be heard by a home radio in the local system that is affiliated to the home talkgroup, and can be heard by a home radio that has roamed to the foreign system and is affiliated to the foreign talkgroup.

This test will also demonstrate that a group call initiated from a home radio in the local system that is affiliated to a home talkgroup can be heard by a home radio that has roamed to a foreign system and is affiliated to a talkgroup home to the foreign system.

Additionally, this test demonstrates that a group call initiated from a home radio that has roamed to a foreign system and is affiliated to a talkgroup home to the foreign system can be heard by a home radio affiliated to a home talkgroup in the local system.

SETUP

SYSTEM 1 (home of TALKGROUP 1)
RADIO-1 (home to SYSTEM 1, located in SYSTEM 1) - TALKGROUP 1
CONSOLE-1 (located in SYSTEM 1) - TALKGROUP 1, TALKGROUP 2

SYSTEM 2 (home of TALKGROUP 2)
RADIO-2 - TALKGROUP 2
RADIO-2 switches to SYSTEM 2's personality when it roams to SYSTEM 2 and is affiliated to TALKGROUP 2.

VERSION #1.030

2. TEST

- Step 1. Using CONSOLE-1, create a patch between TALKGROUP 1 and TALKGROUP 2.
- Step 2. Initiate a patch call from CONSOLE-1 for the patch that contains TALKGROUP 1 and TALKGROUP 2.
- Step 3. Observe that RADIO-1 and RADIO-2 are able to monitor and respond to the call.
- Step 4. Initiate a group call from RADIO-1 on TALKGROUP 1.
- Step 5. Observe that RADIO-2 and CONSOLE-1 are able to monitor and respond to the call.
- Step 6. Initiate a group call from RADIO-2 on TALKGROUP 2.
- Step 7. Observe that RADIO-1 and CONSOLE-1 are able to monitor and respond to the call.
- Step 8. Dissolve the patch on CONSOLE-1.

Pass____Fail___

ISSI 8000

4.8.2 Manual Roaming - Secure Talkgroup Call

1. DESCRIPTION

This test will demonstrate that after a console in the local system patches a home talkgroup with a foreign talkgroup, when the console initiates a secure patch call on the patched talkgroups, the call can be heard by a home radio in the local system that is affiliated to the home talkgroup, and can be heard by a home radio that has roamed to the foreign system and is affiliated to the foreign talkgroup.

This test will also demonstrate that a secure group call initiated from a home radio in the local system that is affiliated to a home talkgroup can be heard by a home radio that has roamed to a foreign system and is affiliated to a talkgroup home to the foreign system.

Additionally, this test demonstrates that a secure group call initiated from a home radio that has roamed to a foreign system and is affiliated to a talkgroup home to the foreign system can be heard by a home radio affiliated to a home talkgroup in the local system.

SETUP

SYSTEM 1 (home of TALKGROUP 1)
RADIO-1 (home to SYSTEM 1, located in SYSTEM
1) - TALKGROUP 1
RADIO-3 - TALKGROUP 1 (no key)
CONSOLE-1 (located in SYSTEM 1) - TALKGROUP
1, TALKGROUP 2

SYSTEM 2 (home of TALKGROUP 2)
RADIO-2 - TALKGROUP 2
RADIO-2 switches to SYSTEM 2's personality when it roams to SYSTEM 2 and is affiliated to TALKGROUP 2.

Ensure the proper key has been loaded in the radios and console.

VERSION #1.050

- Step 1. Using CONSOLE-1, create a secure patch between TALKGROUP 1 and TALKGROUP 2.
- Step 2. Initiate a secure patch call from CONSOLE-1 for the patch that contains TALKGROUP 1 and TALKGROUP 2.
- Step 3. Observe that RADIO-1 and RADIO-2 are able to monitor and respond to the call. Note that RADIO-3 is not able to monitor the call.
- Step 4. Initiate a secure group call from RADIO-1 on TALKGROUP 1.
- Step 5. Observe that RADIO-2 and CONSOLE-1 are able to monitor and respond to the call. Note that RADIO-3 is not able to monitor the call.
- Step 6. Initiate a secure group call from RADIO-2 on TALKGROUP 2.
- Step 7. Observe that RADIO-1 and CONSOLE-1 are able to monitor and respond to the call. Note that RADIO-3 is not able to monitor the call.
- Step 8. Dissolve the patch on CONSOLE-1.

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ISSI 8000

4.8.3 Manual Roaming with Talkgroup Mapping - Talkgroup Call

1. DESCRIPTION

Talkgroup mapping provides the ability for radios that don't use automatic roaming to access a foreign talkgroup without using a console patch. In one of the systems, a configured foreign talkgroup is mapped to a home talkgroup ID. Then radios in the local system can affiliate to that mapped home talkgroup ID to access the foreign talkgroup.

This test demonstrates that when a foreign talkgroup is mapped to a home talkgroup ID, a radio in the local system that is affiliated to the mapped home talkgroup ID can initiate and hear calls on the foreign talkgroup.

Note that the mapped home talkgroup behaves as a foreign talkgroup — for example, if the inter-system link is down to the home system, the mapped home talkgroup will not function..

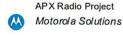
Note: If patching different access types (TDMA / FDMA) between systems, then either Console Patch or Transcoding is required.

SETUP

SYSTEM 1 (home of TALKGROUP 1)
RADIO-1 (home to SYSTEM 1, located in SYSTEM 1) - TALKGROUP 1

SYSTEM 2 (home of TALKGROUP 2) SYSTEM2 PM has System1 Talkgroup 1 Foreign Group mapped to Talkgroup 2. RADIO-2 -TALKGROUP 2 RADIO-3 – TALKGROUP 1 CONSOLE-2 (located in SYSTEM2) - affiliated to TALKGROUP 1.

VERSION #1.020



- Step 1. Initiate a group call from RADIO-2 on TALKGROUP-2.
- Step 2. Observe that RADIO-3, CONSOLE-2, and RADIO-1 are able to monitor and respond to the call on TALKGROUP-1.
- Step 3. Initiate a group call from RADIO-1 on TALKGROUP 1.
- Step 4. Observe that RADIO-2 is able to monitor and respond to the call on TALKGROUP 2, while RADIO-3 and CONSOLE-2 hear the call on TALKGROUP 1.

4.9 P25 FUNCTIONAL TESTING (PASS / FAIL)

4.9.1 General Usage

- 1. Power on the Radio
- 2. Autolog In (registers P25 ID and P25 Group)
- 3. Turn radio off and on multiple times
- 4. Change Systems
- 5. Change Groups
- 6. Display System and Talkgroup name on radio
- 7. Transmit on Groups in Different Systems
- 8. Receive on Groups in Different Systems
- 9. Display P25 ID of users when receiving calls
- 10. Change volume up/down
- 11. Use the Buttons programmed on the Radio
- 12. Try to transmit while someone else is transmitting on P25 trunked (receive tone)
- 13. Transmit until time-out (receive tone)

4.9.2 Specific Calls:

- 1. Transmit (800 MHz) P25 Trunked
- 2. Receive (800 MHz) P25 Trunked
- 3. Transmit (700 MHz) P25 Trunked
- 4. Receive (700 MHz) P25 Trunked
- 5. Transmit (800 MHz) P25 Conventional
- 6. Receive (800 MHz) P25 Conventional
- 7. Transmit (700 MHz) P25 Conventional
- 8. Receive (700 MHz) P25 Conventional

4.9.3 Emergency:

- 1. Emergency declare
- 2. Emergency automatic open mic option 5 seconds
- 3. Emergency Clear
- 4. Receive multiple emergency signals on the same group
- 5. Transmit emergency signal on the same group with an Emergency active (queue state)
- 6. Transmit while talkgroup is in emergency state (receive tone)
- 7. After Transmit, move to another talkgroup (emergency should not follow)
- 8. Encryption:
- 9. Transmit and Receive (800 MHz) P25 Trunked AES OTAR Encryption
- 10. Transmit and Receive (700 MHz) P25 Trunked AES OTAR Encryption
- 11. Over-the-air-encryption (OTAR) AES receiving the warm start of the key
- 12. Reverse Warm Start

4.9.4 Patches:

- 1. Encrypted/Digital
- 2. Encrypted/Encrypted
- 3. Digital/Digital

4.9.5 Simulselects:

- 1. Encrypted/Digital
- 2. Encrypted/Encrypted
- 3. Digital/Digital

4.9.6 Audible Tones:

- 1. Turn-on Radio Tone
- 2. Grant Tone
- 3. Denied Tone
- 4. Queue Tone
- 5. Busy Tone
- 6. Emergency Tone TX
- 7. Emergency Tone RX
- 8. Battery life Tone
- 9. Lost System Tone (CC SCAN)
- 10. Time-out Timer

4.9.7 Radio Adjustments:

- 1. Adjustable Backlight Levels (On/Off/Adjustable)
- 2. Failsoft Display
- 3. Battery Indicator
- 4. Option to RX and not TX
- 5. Personality Security (Blocks access to read or program the radio without Key)
- 6. Ramp Lock (up/down arrow does not wrap around system or group whichever is set)
- 7. Power-Up Keypad Lock (on & off)
- 8. Power-Up Keypad State turn on to a specific (System & Group)
- 9. Power-Up Keypad State turn on to the last used System & Group
- 10. Receive the Disable Command from the Radio Infrastructure (Stolen)
- 11. Receive the Change Coverage Class Command from the Radio Infrastructure (Lost)
- 12. FCC Menu with RF levels
- 13. If system is not available does radio Roam to another P25 System (Enhance CC)
- 14. Priority Option (talking on a talkgroup not on the list to dispatch)

4.9.8 Scan Option:

- 1. Block Scan Feature
- 2. Add Scan Feature to a Group
- 3. Remove Scan Feature to a Group
- 4. Create Scan List
- 5. Turn Scan Feature On/Off

4.9.9 **Stealth Mode Options:**

- Remove backlight
 Remove all lights
- 3. Remove all tones

4.10 SIGNOFF CERTIFICATE

By their signatures below, the following witnesses certify they have observed the system Acceptance Test Procedures.

Signatures

WITNESS:	Date:
Please Print Name:	
Please Print Title:	Initials:
WITNESS:	Date:
Please Print Name:	
Please Print Title:	Initials:
WITNESS:	Date:
Please Print Name:	
Please Print Title	Initials:

SECTION 5

SERVICE/WARRANTY

5.1 INTRODUCTION

The products and accessories provided under this Appendix A-2 are provided with a one-year warranty as set forth herein and subject to the terms and conditions of the Motorola Solutions standard warranty and the warranties of the third-party vendors whose components are used in this system.

5.2 INFRASTRUCTURE WARRANTY SERVICES

The infrastructure components consist of:

- Motorola Solutions P25 Core.
- CommandCentral Aware Cloud Connect Servers.
- AirLink Connection Manager Servers.
- Associated Motorola Solutions furnish networking equipment (switches, routers, and firewalls).

The infrastructure system components are covered under warranty for one year from date of acceptance. Motorola Solutions' System Support Center (SSC) shall monitor these components around the clock during the warranty period.

Should the system indicate an abnormal operating state, either through an automatic alarm or manual observation, the SSC will first attempt to remedy the situation via remote access. If necessary, the SSC will dispatch a Motorola Services local Field Service Organization (FSO) to respond for local support. MDPD can also call our SSC via telephone for infrastructure support.

Motorola Solutions will provide this service on an around the clock basis during the warranty period. Monitoring and response for cybersecurity incidents is also included in this service.

5.3 SUBSCRIBER UNIT WARRANTY SERVICES

5.3.1 APX NEXT Portable Radios

The APX NEXT Portable radios provided herein include Motorola Solutions's APX NEXT Device Managed Service with Accidental Damage Plan. This plan includes:

- Standard Hardware Repair RadioCentral cloud-based tool with batch programming capabilities.
- MyView portal with device service dashboards.
- Device Software Maintenance.
- Technical Support.
- Comprehensive Hardware Repair of Accidentally Damaged radios.

The plan is effective from date of initial field programming or six months after shipment date from our factory (whichever comes first) and can be renewed by MDPD on an annual basis as set forth in the price schedule. Field labor will be covered by the subscriber technicians (if purchased). The APX NEXT Device Managed Service with Accidental Damage Plan includes coverage for internal and external components damaged due to a manufacturer's defect as well as coverage for any physical damage that occurs. For damage to a device that is not repairable, a new replacement device will be provided once per year. Motorola shall provide flexibility to the agency in order to create a universal start of warranty date for all portable radios. For more details on Service SOW, refer to Appendix F.

5.3.2 APX Mobile Radio

In addition to Motorola Solutions' standard warranty, the APX mobile radios shall include a 5-year essential service program, which covers hardware repairs at Motorola's depot. This plan is effective from date of shipment from Motorola's factory. Field labor will be covered by the subscriber technicians. Motorola shall provide flexibility to the agency in order to create a universal start of warranty date for all mobile radios.

5.3.3 APX Backup Consolette Radios

In addition to Motorola's standard warranty, the APX backup consolette radios shall include a 5-year essential service program, which covers hardware repairs at the Motorola depot. Included is around the clock field response for the one-year warranty period. Field labor will be covered by the subscriber technicians. Motorola shall provide flexibility to the agency in order to create a universal start of warranty date for all portable radios.

5.3.4 Sierra Wireless LTE Modems

The Sierra Wireless LTE Modems include a five-year maintenance and support agreement, effective from the date of shipment. This service provides for repairs at the Sierra Wireless depot. Field labor will be covered by the subscriber technicians.

5.3.5 Services for Fixed Equipment

The following Table 5-1 summarizes the post warranty services for the fixed equipment.

LightSpeed LightSpeed 5680 7 x 24 x Dispatch 365 Service P25 Core Backup Dispatch Equipment Remote Technical Support Dispatch Services . . . On Site Infrastructure Response Annual Preventive Maintenance Check . . . Network Event Monitoring . . Network Hardware Repair with Advanced Replacement . Board Repair and Replacement • .

Table 5-1: Post Warranty Services for Fixed Equipment

	LightSpeed P25 Core Equipment	LightSpeed Dispatch	5680 Backup Dispatch	7 x 24 x 365 Service
Network Updates	•		TO THE	•
Security Update Service (includes remote delivery of software packages and local on-site support to ensure updates have been properly applied)	•			
Security Monitoring and Managed Detection and Response (MDR)	•			•

5.3.6 Services Descriptions

5.3.6.1 Remote Technical Support

Motorola Solutions' Centralized Managed Support Operations (CMSO) shall provide Remote Technical Support for infrastructure issues that require specific technical expertise. Experienced technical support specialists will be available to consult with MDPD to help diagnose, troubleshoot, and resolve infrastructure issues. Service Desk maintenance procedures and incident resolution techniques are based on ISO 9001 and TL 9000 standards.

5.3.6.2 Dispatch and OnSite Infrastructure Response

Motorola Solutions shall provide repair service from trained and qualified technicians. Once dispatched, technicians will travel to MDPD's ASTRO 25 network location to diagnose issues and restore functionality. These technicians will run diagnostics on hardware to identify defective components, and repair or replace them as appropriate. Infrastructure Response times are based on a given issue's impact on overall system function.

5.3.6.3 Annual Preventive Maintenance

Motorola Solutions shall annually test and service network components. Qualified field technicians will perform routine hands-on examination and diagnostics of network equipment to keep them operating according to original manufacturer specifications.

5.3.6.4 Network Event Monitoring

Motorola Solutions shall continuously monitor MDPD's ASTRO 25 network to detect potential issues or communications outages, maximizing network uptime. Motorola Solutions shall assess each alert with advanced event detection and correlation algorithms to determine how to respond. Potential responses include remote restoration or dispatching a local field technician to resolve the incident on-site.

5.3.6.5 Network Hardware Repair with Advanced Replacement, including Board Repair and Replacement

Motorola Solutions shall repair Motorola Solutions-provided infrastructure equipment as needed to restore any malfunctioning MDPD ASTRO 25 network components, . This includes select

third-party infrastructure equipment supplied by Motorola Solutions. Motorola Solutions will ship and return repaired equipment and will coordinate the repair of third-party solution components.

To reduce the impact of a malfunction, Motorola Solutions shall exchange malfunctioning equipment with Advanced Replacement units or Field Replacement Units (FRU), as available. Motorola Solutions' repair depot shall diagnose and repair malfunctioning components, and once repaired, add those to the depot's FRU inventory. Replacement components will remain in MDPD's ASTRO 25 network to maintain continued network functionality.

5.3.6.6 Network Updates

Motorola Solutions shall provide the Network Update service to MDPD. The Network Updates service provides public safety radio system release updates on a consistent, budgeted plan. These updates maintain reliable network operations and cybersecurity protection. In addition, Network Updates keeps MDPD's ASTRO 25 network compatible with expansion elements, as well as new products or features. With Network Updates, MDPD's network will remain on a release that qualifies for support services.

Motorola Solutions shall deliver updates based on a predefined cadence of upgrade windows, with up to one update in each window. Any updates to the ASTRO 25 System to include the ISSI Gateway, shall be coordinated with and approved by MDPD to ensure that there are no interruptions of service due to unexpected changes. Additionally, Motorola shall provide available version compatibility information to MDPD on the ISSI connection prior to upgrades. The Network Updates service includes the following:

- Software Release Updates Motorola Solutions-certified software that improves network functions over previous releases. This also includes commercial operating system and application software updates.
- Hardware Update When needed to support a software release update, Motorola
 Solutions provides new hardware. New hardware will both support the new software update,
 as well as maintain existing functions and features.
- Professional Implementation Services Motorola Solutions will plan and implement updates at MDPD's site. This includes factory integration, testing, and supply chain management for new software and hardware.

With these services, MDPD will have access to the technology, support, and planning expertise needed for an effective upgrade.

5.3.6.7 Security Update Service (SUS) with Local Support

Motorola Solutions shall provide MDPD the Security Update Service (SUS).

SUS includes Motorola Solutions remotely installing tested updates on MDPD's ASTRO 25 network. If there are any recommended configuration changes, warnings, or workarounds, Motorola Solutions shall provide detailed documentation on a secured extranet website.

Motorola Solutions' local staff will also be available to assist with the installation of these security packages as necessary (e.g., reboot machines, ensure package applied, etc.).

5.3.6.8 Security Monitoring and Managed Detection and Response

Experienced, specialized security analysts from Motorola Solutions' Security Operations Center (SOC), using the ActiveEye Security Platform, shall monitor MDPD's ASTRO 25 radio network and Customer Enterprise Network (CEN) for cybersecurity threats. When a threat is detected, SOC analysts will investigate and coordinate with MDPD to mitigate threats.

MDPD can use the ActiveEye Security Platform to configure alerts and notifications, review security data, and perform security investigations.

5.4 DEDICATED SUBSCRIBER SERVICE TECHNICIANS

Motorola Solutions shall provide up to two Dedicated Subscriber Support Technician (SST) dedicated to MDPD and at MDPD's request to perform the following duties and at the pricing set forth herein.

5.4.1 Description of Duties, Dedicated Subscriber Support Technician

The SSTs shall provide dedicated subscriber resource that will track and manage the APX Next portable, APX6500 mobile, and APX8500 mobile, referenced as subscriber equipment below, for MDPD. (The actual repair of the subscriber equipment will be handled via Depot services purchased by MDPD.) The ultimate goal of the SST is to ensure MDPD's investment in the Motorola subscriber equipment is utilized to the fullest extent possible. The SST, dedicated to MDPD, will be a direct report to the on-site Supervisor, have an office at MDPD and will report there daily. The SST, to accomplish the "Tasks", may be required to travel to, and work from, any MDPD location in Miami-Dade County.

Tasks to be performed:

- 4. Collaborate with MDPD personnel to create, modify, and update the subscriber code plugs including verification of functionality and accuracy of all channels and Talkgroups.
- 5. Maintain subscriber code plug templates per MDPD Fleetmap.
- 6. Perform regular monthly backups of subscriber code plugs and Miami-Dade provided system keys.
- 7. Manage, program and provision subscriber radios utilizing cloud-based tools such as RadioCentral, CommandCentral Mapping, CommandCentral Messaging and SmartConnect.
- 8. Update subscriber information in the Motorola Solutions ASTRO Core Provisioning Manager application. Confirm accuracy to prevent duplication of data information.
- 9. Perform basic hardware troubleshooting if the radio has an external defect or can be restored without opening the radio case/ housing.
- 10. If the subscriber radio has an internal defect or is not serviceable without opening the radio case/ housing, the subscriber radio will be shipped to the Factory Depot for repair. (MDPD must have either Essential or Essential with Accidental Damage coverage included in the service agreement.)
- 11. Inventory and tracking of all subscriber equipment utilizing the MDPD's Asset Management program (spares, out for repair, in service, out of service, etc.).
- 12. Apply subscriber related Motorola Technical Notifications (MTN) when applicable.

- 13. Weekly reports on subscriber repair cycle time and may also include Preventative Maintenance schedule.
- 14. Support Sierra Wireless XR80 Vehicular Modems with configuration updates and swapping of units for service with MDPD provided spares. All XR80 Modems will go back to Sierra Wireless for any additional service required. (Modems required to be covered under warranty or support plan if out of warranty.)
- 15. Encryption capability/feature management responsibilities will remain with MDPD due to the nature and the security of Encryption.
- 16. Any installation or removal type services are excluded from this Statement of Work.
- 17. Executed Monday through Friday, 8AM 5PM EST, excluding Motorola Solutions holidays.

5.4.2 Dedicated Subscriber Service Technician Pricing

Please refer to Section 7 for pricing detail on the Dedicated Subscriber Service Technicians.

5.5 ASTRO CONNECTIVITY SERVICE

5.5.1 Introduction

To enable the ISSI connection between the Miami-Dade County 800MHz P25 core and the Motorola Solutions P25 core, as well as to provide the necessary connections to support the SmartConnect and Location Services, Motorola Solutions shall provide ASTRO Connectivity Service (ACS) at LightSpeed Dispatch and the TCC. This includes the ACS for the first year. For succeeding years, the ASTRO Connectivity Service is included in the annual Infrastructure Support Services in Section 7. This service is provided through Vesta Solutions, Inc., a wholly owned subsidiary of Motorola Solutions, Inc.

5.5.2 ASTRO Connectivity Service Overview

Public safety communications networks are complex and require expert design to integrate components and technologies efficiently and securely. Without effective network data transport connecting components and technologies, MDPD's public safety network and applications can be impaired by slow traffic, bottlenecks, and poor connection security. Worse, if this equipment is not designed for public safety reliability, it could unexpectedly fail and leave users stranded without a communications lifeline.

Motorola Solutions shall addresses these concems with the ASTRO® 25 Connectivity Service, a managed service that integrates MDPD's ASTRO 25 sites, core, and cloud services as an end-to-end solution. With this service, Motorola Solutions shall design a transport solution tailored to the needs of MDPD's ASTRO 25 network, provides the solution equipment, and implements the solution.

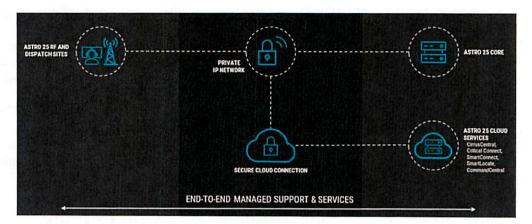


Figure 5-1: End-to-end Managed Services

Since ASTRO 25 Connectivity Services bundles data transport into one service-based solution, it simplifies viewing and managing performance and availability. Service reporting provides a clear view of transport capabilities, better informing decisions to expand or alter service. When transport capabilities need to expand, MDPD can alter the ASTRO 25 Connectivity Service, avoiding the hassle of finding and procuring compatible new components.

In addition to simplicity, the service model replaces unexpected, variable expenses with one predictable service subscription. Motorola Solutions shall provide transport equipment, services, and maintenance, enabling MDPD to prepare clear and dependable budgets.

The following sections provide design and maintenance details.

5.5.3 ASTRO 25 Connectivity Design

The ASTRO 25 Connectivity services available at a site are governed by the site type, and by what equipment or applications MDPD needs to connect to. Figure 5-2 below shows the network services sites can support. As needs change, MDPD can add more network services.

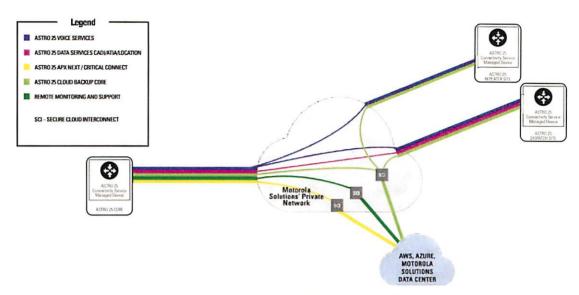


Figure 5-2: Sample Connection Diagram

Connections between sites and applications operate over Motorola Solutions' private network. On-premises managed devices terminate the network circuit, providing the connection point that joins MDPD's site equipment and applications to MDPD's network.

In addition to routing and network service demarcation, the on-premises device provides a firewall, controlling traffic flow in and out of MDPD's sites. This enables MDPD to control traffic traveling between MDPD's network and Cloud/Data Center resources.

For improved availability, some applications and site types can take advantage of public safety LTE backup connectivity. The solution includes this LTE connectivity with the on-premises device. With appropriate provisioning, the on-premises device can determine the best available path to use for traffic to maintain site operational status. Public safety priority and preemption will give priority to MDPD's public safety communications, helping to maintain operations during emergencies.

Motorola Solutions handles the steps to prepare and deploy the connections needed for MDPD's components. MDPD is being provided connections to support the following:

- ASTRO 25 Core (LightSpeed) to the Cloud SmartConnect Gateway.
- Miami-Dade County 800MHz P25 ISSI Gateway (TCC) to ASTRO 25 ISSI Gateway (LightSpeed)

On-Premises Equipment

Motorola Solutions shall provide and deploy equipment needed to enable ASTRO 25 Connectivity Service links. The included maintenance services cover equipment provided as part of this service, avoiding service disruptions.

5.5.4 ACS Maintenance Services

To keep the network working according to specifications, Motorola Solutions shall provide the services described in the following sections. Motorola Solutions shall combine these services

with other packages provided to MDPD. Motorola Solutions experienced personnel will work together to coordinate service tasks across MDPD's public safety solution.

Availability Reports

Motorola Solutions targets the service levels described in the ASTRO 25 Connectivity Service Statement of Work. To help MDPD compare network performance with service goals, Motorola Solutions shall provide regular operations reports.

Backhaul Event Monitoring

Through constant link monitoring, Motorola Solutions will be able to respond promptly to problems that arise. As part of this service, Motorola Services' support staff shall continuously monitor MDPD's network for issues. If Motorola detects an event, support staff will alert and mobilize teams to address that event, minimizing disruption.

Remote Technical Support

In addition to proactive monitoring support, Motorola Solutions shall provide access to technical support staff. If MDPD's users need assistance, they will be able to call or email support staff for expert information. Support staff will escalate reported issues as needed to resolve them.

On-Site Response

When resolving an issue requires physical access to hardware, Motorola Solutions shall dispatch resources to MDPD's location. Motorola Solutions shall contact MDPD's field service technicians to provide hands-on support to restore the system. Support personnel will restore the system by diagnosing errors and exchanging defective components with spare equipment.

Software Updates

The ASTRO 25 Connectivity Service can add new security measures and capabilities over time. Motorola Solutions shall provide updates and patches to MDPD's ASTRO 25 Connectivity Service components. Such updates will protect MDPD's system with the latest security updates, and keep it compatible with new features.

SECTION 6

TRAINING PLAN

Motorola Solutions shall provide training to the following audiences:

- MDPD personnel assigned to train end users throughout the department ("train-the-trainer" approach).
- MDPD personnel tasked with managing the radio fleet.
- Miami-Dade ITD personnel tasked with maintenance & support of radios post warranty.

6.1 TRAIN-THE-TRAINER SESSIONS (FOR MDPD TRAINERS)

The objective of the train the trainer sessions is to give designated MDPD personnel the knowledge and tools necessary train end users on the proper operation of the APX portable and mobile radios.

The train the trainer sessions will be conducted within Miami-Dade County at a MDPD furnished facility. Motorola Solutions will provide sessions for up to 64 people. Each 8-hour session will accommodate up to eight trainers. Train the trainer sessions will be recorded and available for future use within the agency for new personnel as needed.

6.2 APX NEXT AND RADIO CENTRAL (FOR FLEET MANAGERS)

6.2.1 Introduction

The objective of the APX management training track is to familiarize fleet managers with the tools they need to process the moves, adds, and changes occurring after initial deployment. Training is available to as many Miami-Dade personnel as needed, there is no limit to the number of personnel initially. Motorola shall provide in-person / on-site training for the initial deployment per Section 5.1. Motorola shall also provide online training in perpetuity, available to as many Miami-Dade personnel as needed. Motorola shall provide URL links and/or training slides to help MDPD post training resources on its training portal.

The training track for these personnel includes the following courses:

- AST4002 APX NEXT Overview.
- AST4003 APX NEXT Features & Service.
- AST4004 APX NEXT Radio Central Overview.
- AST4005 APX NEXT Radio Central Workshop.
- AST2003 APX Radio Management Overview.

Motorola Solutions shall provide training for Miami-Dade Police Department personnel. Following are the descriptions of each of these courses.

6.2.2 AST4002 – APX NEXT Overview

Delivery Method

Online

Duration

1 hour

Number of Seats

Unlimited end users

Description

This course provides an overview of the APX NEXT™ series radios features and capabilities. We will help you understand how they work, when they are useful, and how they impact your day-to-day tasks.

Objectives

By the end of the course, you will be able to:

- Describe the functions and capabilities of the APX NEXT series radios.
- List the features supported on the APX NEXT series radios.
- Describe the new application services available on the APX NEXT series radios.

Target Audience

This course is intended for individuals who need an overview of the APX NEXT series radios.

6.2.3 AST4003 - APX NEXT Features & Service

Delivery Method

Online

Duration

1 hour

Number of Seats

25 Technical personnel including MDPD Tech Unit

This course provides an overview of the APX NEXT features and services. You will learn about the use cases of each feature as well as how to operate them. You will also learn how to configure, update, and maintain your radio so that it stays in optimum condition.

6.2.4 AST4004 - APX NEXT Radio Central Overview

Delivery Method

Online

Duration

1 hour

Number of Seats

25 Technical personnel including MDPD Tech Unit

Course Overview

This course provides an introduction to using the MyView Portal and the RadioCentral Client to manage the basic setup and configuration of the features for your APX NEXT devices.

Target Audience

This course is intended for individuals who need to configure, maintain, and monitor the APX NEXT Radio.

Course Objectives

After completing this course, you will be able to:

- Navigate through the RadioCentral Client to find the editing tools and standard views.
- Navigate through the MyView Portal to find the editing and administrative tools.
- Successfully complete the configuration workflows covered in this course.

6.2.5 AST4005 – APX NEXT Radio Central Workshop

Delivery Method

Virtual Instructor Led Training (participants need to use their own compatible computer and internet connection)

Duration

1.5 days

Number of Seats

25 Technical personnel including MDPD Tech Unit

Course Overview

This is a follow-up workshop to AST4004 APX™ NEXT RadioCentral Overview. In this workshop, you will have hands-on experience of using the RadioCentral application to set up and program the APX™ NEXT radios.

Target Audience

System Managers and Technical staff responsible for managing APX NEXT devices.

Course Objectives

After completing this course, you will be able to:

- Describe the MyView portal and RadioCentral solutions.
- Manage agencies, user access, and devices through MyView portal.
- Navigate through the RadioCentral client to perform programming operations.

• Program the APX NEXT radio for field operation.

Prerequisites

AST4004 APX™ NEXT RadioCentral Overview.

6.2.6 AST2003 - APX Radio Management Overview

Delivery Method

Online

Duration

1 hour

Number of Seats

25 Technical personnel including MDPD Tech Unit

Course Overview

This course provides an overview of the features and functions of the APX series Radio Management software. Participants will learn what the Radio Management software is designed to do, and will also learn how to use it to program large and small groups of subscribers.

Target Audience

Technicians and System Managers needing an understanding of the basics of the Radio Management application as well as database and fleet management.

Course Objectives

By the end of the course, you will be able to:

- Identify the solution that Radio Management provides.
- Differentiate between All-in-One PC needs and Distributed Use needs regarding Radio Management.
- Locate the APX Radio Management.
- Navigate the APX Radio Management screens.
- Populate the database.
- Schedule a Read iob.
- Manage multiple APX radios simultaneously.
- Create, modify, and select programming templates.
- · Schedule a Write job.
- Conduct a search.
- Search, sort, and group radios.
- Sort and manage information in the Table view.
- Identify the function of the Job view.

6.3 APX RADIO SERVICE TRAINING

6.3.1 APX7001 APX™ CPS Radio Programming and Template Building

Asset Description

The APX™ CPS Radio Programming and Template Building course provides communications management personnel and technicians with the knowledge and training necessary to build templates and program the APX family of radios in the most efficient way possible. (16 Hrs. - Virtual)

Number of Seats

25 Technical personnel including MDPD Tech Unit

Objectives

After completing this course, MDPD attendees will be able to:

- Navigate through the user interface of the APX™ Customer Programming Software (CPS).
- Build the APX family of programming templates using the APX™ CPS programming software.
- Program the specific conventional and trunking parameters related to the various system types in which the radios will operate.
- Program the radios using typical APX™ CPS features and functions, such as cloning and drag and drop operations.
- Use additional APX[™] CPS related functions such as codeplug comparison, radio flashing, Advance System Key Administrator, and codeplug merging.

Target Audience

County personnel should attend this training course if they are a radio technician or system manager who needs to:

- Perform APX radios programming.
- Gain knowledge of the APX CPS navigation, tools, options and features.
- Have a better understanding of APX subscriber operating in Conventional, Single Site trunking, Simulcast, SmartZone or ASTRO 25 IV&D TDMA and ASTRO 25 IV&D x2.

Requisite Knowledge

Knowledge of the basic features and options of two-way radios and the basic concepts of trunking.

6.3.2 APX010APX™ Technical Subscriber Academy

Asset Description

Participants will learn the capabilities, features, and functions of the APX[™] family of radios as well as how to correctly complete performance checks, radio alignments, maintenance, and troubleshooting. This Academy will also focus on a Level 2 (block-level) theory of operation for the APX[™] family of radios and provide a review of APX[™] CPS and Radio Management programming. In addition to the lecture, large amounts of hands-on with scenario-based lab work will be used to reinforce knowledge transfer. (Seat / 36 Hrs - Live)

Number of Seats

25 Technical personnel including MDPD Tech Unit

Objectives

After completing this course, County attendees will be able to:

- Distinguish between the features and specifications of APX™ Portable and Mobile radios.
- Verify the correct operation of the various radios within the APX™ family of subscribers by completing Performance Checks and Alignment procedures.
- Maintain and troubleshoot radios within the APX™ family of subscribers.

Target Audience

This course is intended for County personnel who would like to get familiar with the features, operation principles, and troubleshooting steps of the APX™ family of radios.

Requisite Knowledge

Completion of the following courses or equivalent experience in radio communications:

APX7001V - APX CPS Programming and Template Building Overview.

6.3.3 AST2000 APX Programming and Alignment

Description

In this course, radio technicians will learn to program and calibrate the selected product and also learn about the product operation, and basic troubleshooting. The course consists of theoretical and practical explanations. (Seat / 24 Hrs. - Live)

Objectives

After completing this course, County attendees will be able to:

- Explain how the CPS software is used and program the product
- Show how the product works and explain its advantages
- Align and calibrate the equipment with use of the program TUNER

Number of Seats

10 Technical personnel

Target Audience

Technicians and Engineers

Requisite Knowledge

Basic theoretical knowledge of radio FM 2-way, fundamentals of microprocessors, logic circuitry and operation of disk operating systems for PC.

EQUIPMENT LIST

Motorola Solutions shall provide the following equipment as set forth in this Appendix A-2.

7.1 APX NEXT SINGLE-BAND PORTABLES

APX NEXT Single-Band Portables	Quantity
Single-Band Portable (7/800 MHz)	4690
P25 Trunking Phase 1 / Phase 2	4690
LTE - AT&T FirstNet	4690
Radio Authentication	4690
AES / DES Encryption	4690
Over-the-Air Rekeying (OTAR)	4690
ViQi Voice Control	4690
SmartConnect (Yr. 1 & 2)	4690
SmartLocate (Yr. 1 & 2)	4690
SmartMapping (Yr. 1 & 2)	4690
Smart Messaging (Yr. 1 & 2)	4690
SmartProgramming (Yr. 1 & 2)	4690
APX NEXT Plastic Carry Case with Belt Clip	4690
Swivel D-Clip and Belt Loop	4690
4400 mAh Battery	4690
7/800 MHz Stubby Antenna	4690
*Included Future Features:	4690
Multi-System Over-the-Air Rekeying (OTAR)	
*Optional Future Smart Services requiring annual subscription:	Pending
Future ViQi Virtual Partner Smart Service	availability
Future APX NEXT CAD Interface Smart Service	

^{*} Future feature availability per Section 2.2.11.

7.2 APX NEXT MULTI-BAND PORTABLES

APX NEXT Multi-Band Portables	Quantity	
/lulti-Band Portable (7/800 MHz / UHF / VHF)	250	
P25 Trunking Phase 1 / Phase 2	250 - 250	
LTE - AT&T FirstNet		
Radio Authentication	250	
AES / DES Encryption	250	
Over-the-Air Rekeying (OTAR)	250	
ViQi Voice Control	250	
SmartConnect (Yr. 1& 2)	250	
SmartLocate (Yr. 1 & 2)	250	
SmartMapping (Yr. 1& 2)	250	
Smart Messaging (Yr. 1& 2)	250	
SmartProgramming (Yr. 1& 2)	250	
APX NEXT Plastic Carry Case with Belt Clip	250	
Swivel D-Clip and Belt Loop	250	
4400 mAh Battery	250	
Multi-Band Antenna	250	
*Future Features included:	250	
Multi-System Over-the-Air Rekeying (OTAR)		
*Future Smart Services requiring annual subscription:	Pending	
Future ViQi Virtual Partner Smart Service	availability	
Future APX NEXT CAD Interface Smart Service	- No.	

^{*} Future feature availability per Section 2.2.11.

7.3 APX NEXT PORTABLE ACCESSORIES

APX NEXT Portables Accessories	Quantity
Spare 4400 mAh Battery	4940
XVP830 Wired or Bluetooth Wireless Remote Speaker Mic per Section 8.2	4940
APXNEXT IMPRES Single Unit Charger	4940
APX NEXT IMPRES Multi-Unit Charger	100

7.4 APX 8500 ENHANCED SINGLE-BAND MOBILE VEHICLE RADIOS

APX8500 Single-Band Enhanced Mobiles	Quantity
Single-Band Mobile (7/800 MHz)	2670
P25 Trunking Phase 1 / Phase 2	2670
Radio Authentication	2670
AES / DES Encryption	2670
Multi-System Over-the-Air Rekeying (OTAR)	2670
SmartConnect	2670
E5 Remote Control Head	2670
15W Speaker	2670
7/800Mhz Single-Band Antenna	2670

7.5 APX 8500 ENHANCED SINGLE-BAND MOBILE MOTORCYCLE RADIOS

APX8500 Single-Band Enhanced Mobiles	Quantity
ingle-Band Mobile (7/800 MHz)	50
P25 Trunking Phase 1 / Phase 2	50
Radio Authentication	50
AES / DES Encryption	50
Multi-System Over-the-Air Rekeying (OTAR)	50
SmartConnect	50
E5 Remote Control Head	50
15W Speaker	50
Motorcycle Option (Does not include SetCom Adapter)	50
7/800Mhz Single-Band Antenna	50

APX Radio Project Equipment List 7-1

7.6 APX 8500 ENHANCED MULTI-BAND MOBILE VEHICLE RADIOS

APX8500 All-Band Enhanced Mobiles	Quantity
All-Band Mobile (7/800 MHz / UHF / VHF)	30
P25 Trunking Phase 1 / Phase 2	30
Radio Authentication	30
AES / DES Encryption	30
Multi-System Over-the-Air Rekeying (OTAR)	30
SmartConnect	30
E5 Remote Control Head	30
15W Speaker	30
Multi-band Antenna	30

7.7 APX DISPATCH CONSOLETTES

APX Consolettes	Quantity
Consolette (7/800 MHz)	46
P25 Trunking Phase 1 / Phase 2	46
Radio Authentication	46
AES / DES Encryption	46
Multi-System Over-the-Air Rekeying (OTAR)	46
SmartConnect	46
E5 Remote Control Head	46
15W Speaker	46
MCD5000 Desksets, Foot Pedals, Jack Boxes	46

7.8 APX CONTROL STATIONS

APX Consolettes	Quantity		
Consolette (7/800 MHz)	78		
P25 Trunking Phase 1 / Phase 2	78		
Radio Authentication	78		
AES / DES Encryption	78		
Multi-System Over-the-AirRekeying (OTAR)	78		
SmartConnect	78		
E5 Remote Control Head	78		
15W Speaker	78		
Desk Mics	78		

7.9 SIERRA WIRELESS XR80 VEHICULAR ROUTERS

XR80 Vehicular Routers	Quantity
Sierra Wireless XR80 DC & WiFi	2835
10-in-1 Antenna (4X5G/LTE, GNSS, 5XWiFi 2.4/5GHz, Bolt Mount, 5m, Black)	2835
Airlink Complete Management & Support - 5 Years	2835
Client License for Gateway	2835
5 Year Annual Maintenance & Support ACM Client	2835

7.10 SMARTCONNECT/COMMANDCENTRAL LOCATION & MAPPING INFRASTRUCTURE

Infrastructure		
ASTRO 25 CORE	1	
SmartConnect Gateway	1	
ISSI Gateway		
MCC7500e Dispatch Consoles (2 Consoles at LightSpeed / 2 Consoles at 5680) Includes foot pedals and jack boxes		
Archive Interface Server (AIS) with System Integration to NICE Logger		
Cloud Connect Server (Location)		
Sierra Wireless ACM AirLink Server (VPN Solution)		
CommandCentral Mapping & Messaging Enterprise User Licenses		

APPENDICES

The following Appendix further describe the equipment and services to be provided by Motorola Solutions:

- Appendix A SmartConnect Service
- Appendix B CommandCentral Aware Solution
- Appendix C Dispatch Consoles
- Appendix D Virtual Partner LTE Enablement
- · Appendix E Project Schedule
- Appendix F Service Packages Statement of Work

Appendix A.

SMARTCONNECT SERVICE

A.1 Solution Description

Motorola Solutions shall provide SmartConnect Service that augments coverage and interoperability with partner agency P25 radio systems via ISSI. MDPD will benefit with enhanced radio coverage and seamless interoperability with surrounding agencies.

SmartConnect shall allow the APX Next to work outside the coverage boundaries of the home radio system without losing a vital connection. SmartConnect provides voice communications via LTE broadband. When connected to a P25 System, voice is sent over LTE unchanged, so radio functionality and voice quality are maintained. Talkgroups can be configured individually to enable or disable SmartConnect.

This solution supports a maximum of 200 simultaneous calls. The radio indicates that SmartConnect is active by showing blue bars on the top and front displays, and by using a different talk-permit tone. Key benefits include:

- First responders can stay connected to the radio network even when they are outside radio coverage.
- Automatic switching / roaming on a 3rd Party P25 Systems will be available in 2023.

A.1.1 Solution Components

A.1.1.1 P25 System ISSI

The ASTRO 25 Core can only be connected to other P25 Systems that have an existing ISSI Gateway including the existing Miami-Dade County 800MHz P25 System.

A.1.1.2 SmartConnect

The ASTRO 25 Core shall be equipped to deploy SmartConnect. Authentication, status, talkgroups, and encryption are all preserved, without interruptions or resets to ensure that end users continue to have access to the critical features they need in emergency situations.

A.1.1.3 Master Site Core Components

The master site equipment comprises the system's core components, including a common server architecture (running the applications that provide command and control for the system) and LAN switches (routing information to and from the master site to the radio frequency sites that provide system coverage).

Common Server Architecture

An ASTRO 25 Core Common Server Architecture (CSA) deploys server applications with the Linux/Windows operating systems on a HP DL380 Virtual Management Server (VMS) host. The VMS hosts the server applications through VMware in a Virtual Machine (VM) environment.

Firewall

A Fortinet 100E Firewall provides network boundary enforcement and attack detection features. The firewall restricts traffic to known sources, destinations, and protocols, based on the hosts and services that are specified in the firewall configuration. All undefined traffic is discarded.

LAN Switches

The master site includes one or more LAN switches. The LAN switches aggregate all the Ethernet interfaces for all servers, clients, and routers at the core. Redundant LAN switches are included for added system resilience.

A.1.1.4 ISSI at Core

The Miami-Dade County 800MHz P25 System and the ASTRO 25 Core shall be connected by Motorola Solutions via an ISSI Gateway at each system. Redundant ISSI connection are included at the ASTRO 25 Core. ISSI versions from each vendor shall be tested to work in cross vendor implementation, and any updates provided must maintain compatibility.

A.1.1.5 ASTRO Connectivity Services - Connectivity to Cloud

The connectivity between the ASTRO 25 system and the cloud is being provided by ASTRO 25 Connectivity Service ("Service").

A.1.1.6 Coordination of Talkgroups

The solution will require that the radio talkgroups be managed on the Motorola Solutions ASTRO 25 core and any other P25 Systems that might be connected.

A.2 Equipment List

IT	EM	QTY	NOMENCLATURE	DESCRIPTION
1	-	1	SQM01SUM0323	ASTRO MASTER SITE
1	а	1	CA03515AC	ADD: NEW PRIMARY ZONE CORE
1	b	1	CA03512AB	ADD: REDUNDANCY
1	С	1	CA03507AA	ADD: RACK
1	d	1	UA00153AB	ADD: P25 FDMA TRUNKING OPERATION SITE
1	е	16	UA00152AA	ADD:500 RADIO USER LICENSES
1	f	1	UA00136AA	ADD: UNIFIED NETWORK CONFIGURATOR (UNC)
1	g	1	CA01724AJ	ADD: BACKUP & RECOVERY (BAR)
1	h	1	UA00138AA	ADD: FLEXIBLE ATIA
1	i	1	UA00141AA	ADD: ZONEWATCH GRID & CTRL
1	j	1	UA00150AA	ADD: DYNAMIC REPORTS
1	k	1	UA00149AA	ADD: RADIO CONTROL MANAGER

ITE	EM	QTY	NOMENCLATURE	DESCRIPTION
2	-	1	DSTS453D4GUSNAS	QNAP QUAD CORE BAY DRIVE WITH 4 64MB HDD
3	-	1	DLN6692	PRINTER HP LASERJET 110V
4	-	1	T8751	ASTRO 2020.1 NM SW CLIENT
5	-	1	TT3903A	Z2 G5 MINI WORKSTATION NON RETURNABLE
6	-	1	DSTG191B	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH
7	-	15	T8807A	WINDOWS SUPP FULL CONFIG, A2020.1/A2021.1
8	-	1	DSTRAK88353M	GPS CLOCK, 10MHZ, RUBIDIUM, 48V INCL ANT AND 50' COAX W/DONGLE ADAPTER
9	-	1	DSTRAKP001134	AC POWER SUPPLY FOR 8835 GPS CLOCK
10	-	1	DVN4046B	MASTER SYSTEM KEY STARTER KIT
11	-	1	T7776	ISSI 8000 / CSSI 8000 UPGRAGE Software Licenses
11	а	1	UA00005AA	ADD: ISSI Automatic Roaming License (for first system)
11	b	1	UA00006AA	ADD: ISSI +10 Addition simultaneous Talk Group Capacity License
12	-	1	T8476B	KVL 5000
12	а	1	CA03358AA	ADD: ASTRO 25 MODE
12	b	1	CA00182AW	ADD: AES ENCRYPTION SOFTWARE
12	С	1	CA03467AA	ADD: NORTH AMERICA MICRO USB CHARGER 100/240V
13	-	1	TKN8531C	CABLE FOR RNC, DIU MGEG
14	-	1	TKN1039	CABLE, SOFT OPPS
15	-	1	PMKN4013C	PROGRAMMING, TEST & ALIGNMENT CABLE
16	-	1	HKN6182B	CABLE KEYLOADING ADAPTER CGAI
17	-	1	WPLN6904A	KEYLOAD CABLE FOR APX7000
18	-	1	HKVN4797	LICENSE, SMARTCONNECT ENABLEMENT
19	-	1	T8751	ASTRO 2020.1 NM SW CLIENT
20	-	1	DSF2B56AA	USB EXTERNAL DVD DRIVE

A.3 SmartConnect Statement of Work

A.3.1 Overview

The Statement of Work defines the principal activities and responsibilities of Motorola Solutions and MDPD during SmartConnect deployment. The deployment process is a collaborative effort between Miami-Dade system administrators, subject matter experts, and the Motorola Solutions deployment team. Deployments involve the following steps:

Table A-1: Deployment Steps

Step	Description	
Project Initiation	Formal project kickoff and planning sessions.	
Domain and Device Setup	Provision ASTRO subscribers on the cloud platform.	

Step	Description
SmartConnect Gateway Setup	Enable connection between ASTRO system and Cloud.
ASTRO Preparation	Provide, install and configure ASTRO 25 Core and associated components as detailed in the equipment list section. Assure ASTRO system has the correct version and components.
ASTRO System Configuration	Load and Configure software for SmartConnect.
Demonstration	Demonstrate SmartConnect operation.
Training	SmartConnect operational and administrator training.
Project Finalization	Delivery of as-built documentation and hand over to support.

These project steps are logical groupings of related activities required to complete the project. Each step includes tasks and deliverables both Motorola Solutions and MDPD are responsible to complete. These are described in detail within the Statement of Work.

Motorola Solutions' project manager will use the Statement of Work to guide the deployment process and coordinate the activities of all Motorola Solutions resources and teams. The project manager will also work closely with the MDPD's project manager to clearly communicate the required deployment activities and schedule tasks involving MDPD resources.

A.3.2 Project Roles

Motorola Solutions Project Manager

The Motorola Solutions Project Manager is the single point of contact with the MDPD Project Manager and is responsible for scheduling and coordinating Motorola Solutions resources and task completion. The Motorola Solutions Project Manager assures the delivery of contracted components in accordance with the project schedule and is responsible for the transition of the MDPD to Motorola Solutions Customer Support post deployment.

Motorola Solutions Support

Motorola Solutions Support organization provides varying levels of service up to and including technical support services. Following project finalization, ongoing service will be provided by Motorola Solutions Support in accordance with the Customer support plan.

Miami-Dade Project Manager

The MDPD Project Manager is responsible for scheduling and coordinating Miami-Dade resources and task completion. The MDPD Project Manager works collaboratively with the Motorola Solutions PM to assure completion of Miami-Dade tasks in accordance with the project schedule. Included are deployment resources who will be responsible for the initial SmartConnect User and radio subscriber provisioning via CommandCentral Admin and ongoing coordination with Motorola Solutions System Support.

Customer System Administrator(s)

Included are (2) Motorola Technicians who MDPD will contract on an annual basis and who will be responsible for responsible for the ongoing SmartConnect User and radio subscriber provisioning via CommandCentral Admin and ongoing coordination with Motorola Solutions System Support after initial deployment.

A.3.3 Initiation

Project initiation occurs after procurement of SmartConnect deployment services and notice to proceed is received. During this phase, the Motorola Solutions and Miami-Dade project managers are assigned, assemble their teams, and establish a working relationship. The managers jointly review the project plan, deliverables, and schedule. Each manager coordinates preparatory tasks that serve as a foundation for specific deployment activities.

Motorola Solutions Responsibilities

- Schedule a kick-off call between Miami-Dade and Motorola Solutions project managers.
- Establish a communications plan.
- Review project work plan, schedule, and resources.
- Provide standard product documentation.
 - CommandCentral System Administration Guide.
 - CommandCentral Network Connectivity Guide.
 - SmartConnect User Guide.

MDPD Responsibilities

- The MDPD project manager coordinates with the agency(s) and identifies the subject matter experts, system administrators, and network administrators that will participate in the project and complete Miami-Dade tasks.
- Review the Solution Description and prerequisites with the MDPD project team. Assure that all required components are in place or initiate procurement.
- Schedule agency personnel time to participate in the deployment process.
- MDPD shall provide sufficient space available for the system described as required/specified by R56.
- MDPD shall provide adequate HVAC and electrical power in the proper phase and voltage and site grounding to support the requirements of the system described.

Completion Criteria

 Complete when Motorola Solutions and Miami-Dade project teams are identified and deployment tasks are assigned and scheduled.

A.3.4 Data Collection and Planning Session

Motorola Solutions will conduct a remote working session with the MDPD System Administrators and agency user representatives to provide an overview of SmartConnect operation and collect provisioning data. This activity is performed via teleconference.

Motorola Solutions Responsibilities

- Conduct a remote planning session with representatives of each agency using SmartConnect.
- Review SmartConnect functionality and configuration options.
- Document each agency's configuration, admin users, initial subscribers, and users.

MDPD Responsibilities

- Schedule planning session with representatives of each agency.
- Provide Administrator, User, Subscriber, and Group assignments and/or information so that the deployment resources can properly provision for those roles.

Completion Criteria

Planning sessions completed.

A.3.5 Domain and Device Setup

The Radio Subscribers must be provisioned by Motorola Solutions within the CommandCentral Cloud Platform using the Command Central Admin tool. Motorola Solutions will provision MDPD's current inventory of APX NEXT subscribers.

Motorola Solutions Responsibilities

- If a SmartConnect agency has not been previously established for the ASTRO system, use the CommandCentral Admin tool to establish the MDPD Domain within the CommandCentral cloud platform. This activity will be initiated during the order process.
- Use the CommandCentral Admin tool to provision SmartConnect based on the information collected during the Data Collection and Planning Session activity:
 - Setup Command Central administration and user passwords.
 - Provision radio subscriber devices (radio serial number and ASTRO Unit ID). All subscriber devices on an ASTRO system are provisioned by a single CC Admin agency account. This may be performed individually or by importing the device information from a .csv file.
- Use the CommandCentral Admin tool to provision all APX NEXT subscribers procured after the completion of the SmartConnect enablement project.

MDPD Responsibilities

Coordinate with deployment team.

Completion Criteria

All agencies, users and devices are provisioned.

A.3.6 Subscriber Provisioning

APX subscribers must be provisioned by Motorola Solutions on Miami-Dade's system prior to operation. Subscriber provisioning must include specific parameters to enable SmartConnect operation.

Motorola Solutions Responsibilities

- Provide SmartConnect provisioning parameters (FQDN for SmartConnect GW, ports).
- Provision one APX subscriber to validate the parameters.
- Demonstrate the provisioning process and required parameters to Miami-Dade System Administrator.
- Assure that all APX and APX NEXT subscriber firmware is updated to Release 20 or later.
- Assure that APX and APX NEXT subscribers have been previously provisioned on the ASTRO system.
- Assure that all APX NEXT subscribers have a current SmartProgramming application service subscription.
- Assure that APX NEXT subscribers' code plug configurations have been provisioned in RadioCentral and that the APX NEXT Subscribers have been programmed.
- Download and install the latest version of the RadioCentral programming client.

- Provision balance of APX NEXT subscribers for SmartConnect using the RadioCentral client.
- Provision balance of APX subscribers for SmartConnect using Radio Management or CPS software.
- Update the provisioning parameters of any existing subscribers that will utilize SmartConnect capability.

MDPD Responsibilities

Coordinate with deployment team.

Completion Criteria

 All subscribers covered by a SmartConnect feature subscription are provisioned with SmartConnect parameters.

A.3.7 Operational Demonstration

After the solution deployment, Motorola Solutions shall provide an operational demonstration to the MDPD project manager, system administrator, and end user representatives.

Motorola Solutions Responsibilities

- Provide the Operational Demonstration Script.
- Demonstrate SmartConnect operation.

MDPD Responsibilities

Participate in SmartConnect demonstration.

Completion Criteria

• Complete after successful demonstration of SmartConnect operation.

A.3.8 Project Finalization and Handover to Support

Finalization is the process of confirming that all project activities have been completed and project documentation has been delivered. During this activity, Motorola Solutions shall transition responsibility for SmartConnect from the Project Manager to the Motorola Solutions support team. MDPD's Project Manager will transition support to the System Administrator(s).

Motorola Solutions Responsibilities

- Verify project deliverables have been received by the MDPD Project Manager.
- Confirm with Miami-Dade that SmartConnect is available for Miami-Dade's beneficial use.
- Provide the SmartConnect Configuration Document.
- Conduct a teleconference introducing Miami-Dade to Motorola Solutions Support
 organization. The purpose of the teleconference is to review the SmartConnect support
 process and obtain contact information with MDPD's assigned system administrator(s) and
 the Motorola Solutions Support Team.
- Provide on-going support in accordance with the terms and conditions of the support agreement.

MDPD Responsibilities

 Provide confirmation of receipt of project deliverables with the Motorola Solutions Project Manager.

Completion Criteria

 Project finalization is complete upon delivery of the final SmartConnect Configuration Document and the conclusion of the teleconference with Motorola Solutions Support organization.

A.3.9 SmartConnect and Core Implementation Completion

SmartConnect and ASTRO 25 Core Implementation will be completed for contract closure once the Core is tested to be operational and once the APX Next radios are tested to and shown to provide SmartConnect capability.

A.3.10 ASTRO Connectivity Services Statement of Work

A.3.10.1 Overview

Motorola Solutions' ASTRO 25 Connectivity Service ("Service") provides network backhaul to support the MDPD's mission-critical ASTRO 25 communications. The backhaul connection will link ASTRO 25 core sites with ASTRO 25 remote sites and hosted data centers. The Service will also enable connection of Motorola Solutions applications on the cloud. The ASTRO 25 Connectivity Service removes the complexity of multi-vendor management for ASTRO 25 radio network and backhaul by establishing a fully managed end-to-end backhaul service.

Motorola Solutions shall provide and install equipment to support the Service, as described in Section A.3.10.40: ASTRO 25 Connectivity Service Sites and Equipment. In addition to providing the backhaul equipment and installation services, Motorola Solutions shall maintain and manage network elements required to provide the Service ("Managed Elements"). Motorola Solutions will provide these services as needed to meet Service Availability Goals described in this SOW. Services in the SOW are delivered by Motorola Solutions and its partners.

The ASTRO 25 Connectivity Service is offered and available exclusively to ASTRO 25 systems that provide Public Safety Radio Services. The service is designed specifically to enable single vendor sourcing for Motorola Solutions' ASTRO 25 systems and Motorola Solutions information-based applications, including SmartConnect, SmartLocate, Critical Connect, and other cloud and hosted applications provided by Motorola Solutions. These applications must be licensed from Motorola Solutions under a separate agreement to access and use the respective services.

This Statement of Work ("SOW"), including all of its subsections and attachments is an integral part of the applicable agreement ("Agreement") between Motorola Solutions, Inc. ("Motorola Solutions") and the Miami-Dade Police Department ("Customer").

Notwithstanding, the connectivity contemplated in the ASTRO® 25 Connectivity Service will be provided by Vesta Solutions, Inc. ("Vesta"), a wholly owned subsidiary of Motorola Solutions. In order to enable delivery of these connectivity services, MDPD must sign the Transport Connectivity Addendum ("TCA") attached to the Agreement. Any transport or connectivity will be provided by Vesta.

A.3.10.2 Prerequisites

To connect MDPD's on-premises ASTRO 25 infrastructure sites and cores, the Service requires MDPD maintain the included ASTRO 25 infrastructure service package.

Scope

Motorola Solutions shall provide and manage connectivity service between the MDPD's ASTRO 25 core sites and the ASTRO 25 remote sites, cloud data centers, or hosted data centers noted in A.3.10.40: ASTRO 25 Connectivity Service Sites and Equipment

Motorola Solutions Responsibilities

Motorola Solutions shall provide the ASTRO 25 Connectivity Service as follows:

- Provide Managed Elements noted in A.3.10.40: ASTRO 25 Connectivity Service Sites and Equipment to establish connectivity between MDPD provided equipment and wiring for sites noted in the same table. Such Managed Elements are included in the pricing for equipment and installation and is determined by Motorola Solutions.
- Perform a site survey prior to installation to assess that all the conditions for a proper site
 installation can be met, including, but not limited to the presence of network facilities
 necessary to provide the necessary connectivity. Motorola Solutions will note any variations
 of the site that would affect the hardware specifications or estimated labor involved for a
 standard installation. If the site survey indicates a non-standard installation (for example, the
 need for construction of "last mile" network facilities), then a mutually agreed change order
 may be required.
- Install equipment supplied by Motorola Solutions. Installation period is within 45 business days from the time Motorola Solutions and MDPD execute the Agreement and related addendum or addenda.
- When available and approved by MDPD in writing, Motorola Solutions may use MDPDowned or MDPD-managed resources at no additional cost to Motorola Solutions. MDPD is solely responsible for maintenance and replacement of such resources and Motorola Solutions bears no responsibility for such resources. Motorola Solutions is further not responsible for any failures in such resources.
- Cooperate with MDPD to schedule the implementation of the ASTRO 25 Connectivity Service
- Coordinate the activities of any Motorola Solutions subcontractors necessary to provide this service.
- Administer safe work procedures for installation.
- Assist MDPD with operating and using the system during cutover.
- Motorola Solutions may, in its sole discretion, choose to modify the backhaul design. These changes will result in equivalent or improved capacity, cost, reliability, or availability.

MDPD Responsibilities

MDPD shall be responsible for the following in relation to the ASTRO 25 Connectivity Service:

- Provide buildings, equipment shelters, and towers required for system installation, including building sites for backhaul equipment.
- Ensure communications sites meet space, grounding, power, and connectivity requirements for equipment installation.
- Obtain all licensing, site access, or permitting required for project implementation.
- Provide a dedicated delivery point, such as a warehouse, for receipt, inventory, and storage
 of equipment prior to delivery to the site(s) if requested by Motorola Solutions.
- Ensure existing sites or equipment locations have sufficient space available for the system, as specified by Motorola Solutions' R56 Standards and Guidelines for Communication.

- Ensure that existing sites or equipment locations have adequate electrical power in the proper phase, in the proper voltage, and with necessary site grounding to support the requirements of the equipment provided with the ASTRO 25 Connectivity Service.
- Perform any location upgrades or modifications.
- Provide any required system interconnections not specifically included in the ASTRO 25
 Connectivity Service. Links provided by the ASTRO 25 Connectivity Service are outlined in A.3.10.40: ASTRO 25 Connectivity Service Sites and Equipment.
- Install demarcation equipment, air conditioning, and other equipment that is not provided by Motorola Solutions and is necessary to support the project.
- Perform work that is necessary to complete the project and is outside the scope of the installation services provided by Motorola Solutions.
- If MDPD requests wireless backup and Out Of Band ("OOB") monitoring, Motorola Solutions
 may provide a wireless modem at the MDPD location for OOB monitoring for Motorola
 Solutions Managed Elements. MDPD shall provide access and accommodations to install
 the modem.
- MDPD will notify Motorola Solutions of any maintenance that may affect the operating status
 of the Managed Elements using a MDPD Maintenance Change Management Request via
 the Helpdesk or MyView Portal. Examples of maintenance activities include: powering down
 the site, a Motorola Solutions' Managed Element, or a third-party Network Terminating Unit,
 or resetting, re-cabling, or moving equipment components.
- If a Motorola Solutions representative visits the Miami-Dade Site or works remotely, at MDPD's request, to investigate an issue with the Service, and the Motorola Solutions representative determines the Service is functioning properly or is prevented from resolving the issue because MDPD did not provide access or reasonable assistance, MDPD will be charged at published or negotiated time and material rates.
- In the event Motorola Solutions agrees to manage any of MDPD's equipment components
 and determines that those components need to be upgraded before Motorola Solutions can
 manage them, Miami-Dade will need to perform any upgrades required to support Motorola
 Solutions' management. Potential upgrades that might be necessary include upgrades for
 Managed Elements Enhanced Features, end-of-life conditions, and the like. Motorola
 Solutions will manage those Miami-Dade equipment components after the necessary
 upgrade is complete.
- Upon Motorola Solutions request, the MDPD designated field service technician will reboot
 the Managed Elements, provide the LED light statuses of the third-party provider Network
 Terminating Unit where applicable, verify equipment power, verify that cables are securely
 connected, and insert a loopback plug.

Availability Goals

Service Level Availability Objectives

Motorola Solutions' ASTRO 25 Connectivity Service shall meet the service level goals calculated using a standard formula as described below. Availability calculations include only active network sites during the reporting period. Inactive mobile sites are not factored into availability calculations. Motorola Solutions shall monitor service availability 24 hours a day, 7 days a week.

Availability Calculation

For the ASTRO 25 Connectivity Service, Motorola Solutions shall provide MDPD with availability metrics for active sites. ASTRO 25 Connectivity Service availability is the percentage of time that the circuit is available within a given calendar month.

Motorola Solutions shall determine connection availability individually for each of MDPD's ASTRO 25 Connectivity Service connections. Availability is calculated monthly by computing the total number of Critical P1 priority incident outage minutes, as defined in Table A-3, in a calendar month and dividing that sum by the total number of minutes in a 30-day calendar month. Availability is calculated after a Critical P1 incident ticket is opened. If the site has backup connectivity, this is factored into the availability calculation. The formula for computing target availability goals is as follows:

Availability (%) = (1 - (Total minutes of site Hard Outage per month + Number of days in month x 24 hours/day x 60 minutes/hour) x 100.

Table A-2 provides Motorola Solutions' availability goals for specific site types. This table contains Motorola Solutions' Service Level Goals.

Site Type	Link Count	Link Access (Mb)	Handoff (NID to SRX)	Hardware (per link)	Wireless Backup (VRF)	Service Level Goals
ASTRO 25 Core	2	100/1000	1000 – LC Fiber	SRX1500	Yes	99.999%
(Primary)					(Critical Connect)	

Table A-2: ASTRO 25 Connectivity Service Level Goals

Outages

Availability is influenced by multiple factors, including network design, equipment, backhaul, and environmental factors. This section defines outage types, and how they factor into service availability calculations.

Hard Outage

A hard outage, classified as a Critical P1 incident, is a complete loss of Motorola Solutions-provided backhaul connectivity, during which MDPD cannot use the service and is prepared to release it for immediate testing. Motorola Solutions factors hard outages into availability calculations and would impact the service level goals.

Planned Outages

Planned outages are pauses in service delivery that Motorola Solutions can notify MDPD of in advance, with a scheduled time for when the outage will end. If a planned outage exceeds the time that was predicted by 10% of the time scheduled, then the outage will be included as an agenda item for discussion at the next meeting between Motorola Solutions and MDPD. Motorola Solutions and the MDPD will re-categorize the outage during the meeting. Motorola Solutions does not include planned outages in connectivity availability calculations.

Force Majeure

An outage resulting from a *Force Majeure* event as defined in the Agreement is not included in availability calculations, but Motorola Solutions will provide continuous commercially reasonable effort to restore system components affected by such event.

Availability Exclusions

The following items are excluded from Motorola Solutions' availability calculations:

 Periods of Soft Outage, during which the MDPD is able to use the ASTRO 25 Connectivity Service and is not prepared to release the service for immediate testing.

- Sites installed for less than one full calendar month.
- MDPD Premises Equipment ("CPE") not under Motorola Solutions 24/7 monitoring coverage.
- · Sites with wireless primary access.
- Miami-Dade sites with wireless backup access, where wireless signal strength does not meet wireless signal strength guidelines as required by Motorola Solutions.
- Any delay, act, or omission by MDPD or a third-party, other than the local access provider, that causes or extends an outage is excluded from the availability calculation. In addition, periods of service degradation, such as slow data transmission, where a Critical P1 trouble ticket has not been opened with Motorola Solutions and MDPD has not released its Service for immediate testing are excluded.
- "AS IS". THE SOLUTION AND SUBSCRIPTION SERVICES DESCRIBED HEREIN ARE PROVIDED "AS IS". MOTOROLA SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.
- Availability and Accuracy. MDPD acknowledges that functionality, availability, and accuracy of the services described herein is dependent on many elements beyond Motorola Solutions' control, including databases managed by Miami-Dade or third parties and MDPD's existing equipment, software, and MDPD Data. Therefore, Motorola Solutions does not guarantee availability or accuracy of data, or any minimum level of coverage or connectivity. MDPD agrees not to represent to any third party that Motorola Solutions has provided such guarantee. Interruption or interference with the services described herein may periodically occur.
- The Service and/or features may not be available in all areas.

A.3.10.3 Incident Priority Definitions and Response Times

This section describes incident priority levels that support availability measurements.

Table A-3: ASTRO 25 Connectivity Incident Priority Definitions and Response Time Goals

Incident Priority	Incident Definition	Primary Link Response Time Goals	Secondary Link Response Times
Critical P1	Hard Outage. The ASTRO 25 Connectivity Service is completely inoperable or degraded to the extent that it is unusable by the MDPD. MDPD is prepared to release the service for immediate testing.		8x5
High P2	ASTRO 25 Connectivity Service performance is degraded, but MDPD is able to use the Service. Incidents are assigned this priority if MDPD is not prepared to release the service for immediate testing.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Medium P3	A problem is affecting an ASTRO 25 Connectivity Service component, and that problem does not impact service functionality or availability.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Low P4	 MDPD's requests that do not impact the ASTRO 25 Connectivity Service, such as a MDPD request for an incident report. Service incidents not covered by other priority levels. Scheduled maintenance. 	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5

A.3.10.4 ASTRO 25 Connectivity Service Sites and Equipment

Table A-4 describes sites included in the backhaul design, notes their location, and lists the critical solution equipment provided for them.

Table A-4: ASTRO 25 Connectivity Service Interconnected Site Locations

Site Name	Site Address	Site Type & Major Equipment
LightSpeed Dispatch Center	11500 NW 25th St Miami, FL 33172	ASTRO 25 Core / Motorola ISSI Gateway / SmartConnect Gateway
TCC	6010 SW 87 th Ave Miami, FL 33173	Miami-Dade County 800MHz P25 System & ISSI Gateway

A.3.11 Availability Reports

A.3.11.1 Description of Service

Motorola Solutions shall track the availability of the MDPD's ASTRO 25 Connectivity Service components using standardized availability reports and will endeavor to achieve availability goals based on those reports. Motorola Solutions automatically collects and collates availability data from network elements and uses that data to determine system health and if any maintenance or improvements are needed. Trend analysis can indicate capacity, availability, or reliability issues before they significantly affect services.

A.3.11.2 Scope

Each month, Motorola Solutions shall create and distribute a network availability report to compare with availability levels described in Availability Goals.

This service includes the following tasks:

- Data Collection—Availability data is remotely collected and stored for reporting purposes.
- Data Reporting-A suite of availability reports is generated and uploaded to MyView Portal.

A.3.11.3 Inclusions

Availability reports shall be provided for Motorola Solutions-provided site connections included as part of the ASTRO 25 Connectivity Service.

A.3.11.4 Motorola Solutions Responsibilities

- Collect availability data through defined interfaces.
- Provide the availability reports within MyView Portal.
- Provide a Motorola Solutions point of contact for questions MDPD has about the findings or service reports provided by Motorola Solutions.

A.3.11.5 Limitations and Exclusions

 Motorola Solutions' availability target objectives, and related availability calculations, exclude availability degradation resulting from MDPD's failure to promptly take necessary actions.

A.3.11.6 MDPD Responsibilities

- Designate an authorized reporting contact to work with Motorola Solutions to address any questions.
- When necessary, perform corrective actions identified by Motorola Solutions' project team as outside the scope of Motorola Solutions' responsibilities.

A.3.12 Backhaul Event Monitoring

A.3.12.1 Description of Service

Backhaul Event Monitoring provides real-time end-to-end event monitoring and fault isolation for ASTRO 25 Connectivity Service backhaul components and links. A set of sophisticated tools support remote detection and classification of events on the MDPD's backhaul network. When an event is detected, Motorola Solutions shall provide Backhaul Event Monitoring and shall determine the status of impacted backhaul links and engage with other service teams as needed to isolate the cause and resolve the incident. Motorola Solutions shall respond to incidents in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.

Backhaul Event Monitoring is incorporated into the interface Motorola Solutions' uses for Backhaul Event Monitoring, establishing a single process for MDPD.

A.3.12.2 Scope

Backhaul Event Monitoring is available 24 hours a day, 7 days a week. Motorola Solutions' tools and processes for monitoring ASTRO 25 radio networks will be leveraged to monitor the backhaul endpoints effectively, and to provide a consistent monitoring experience if receiving both services. Incidents that are generated by the monitoring service will be handled in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.

A.3.12.3 Inclusions

Backhaul Event Monitoring is provided for the links and equipment listed in A.3.10.40:
 ASTRO 25 Connectivity Service Sites and Equipment

A.3.12.4 Motorola Solutions Responsibilities

- Use concurrent connectivity through the network connection established to support Backhaul Event Monitoring.
- Verify connectivity and event monitoring after system installation is complete.
- Monitor backhaul links continuously 24 hours per day, 7 days per week.
- Create incident tickets when necessary. Identify and classify the link associated with the incident. Gather information to perform the following:
 - Characterize the issue.
 - Determine a plan of action.
 - Assign and track the incident to resolution.
- Remotely access MDPD's backhaul to perform remote diagnosis and fault isolation as permitted by the MDPD pursuant to Section A.3.12.6: MDPD Responsibilities.
- Dispatch the MDPD's field service technician designated in the CSP when necessary and maintain communications with the MDPD until the incident is resolved. Provide updates in accordance with the agreed frequency, until resolution.

A.3.12.5 Limitations and Exclusions

- Monitoring excludes MDPD Enterprise Network ("CEN") components.
- Additional support charges beyond the contracted service rates may apply if Motorola Solutions determines that system faults were caused by the MDPD making changes to critical system parameters.
- Motorola Solutions is not responsible for system faults or deficiencies that are caused by changes or modifications to the system not performed by Motorola Solutions.

A.3.12.6 MDPD Responsibilities

Provide Motorola Solutions with continuous remote access to enable the monitoring service.

- Provide continuous utility service to any Motorola Solutions backhaul equipment installed or used at the MDPD's premises to support delivery of the service. MDPD agrees to take reasonable due care to secure the Motorola Solutions equipment from theft or damage while on MDPD's premises.
- Prior to contract start date, provide Motorola Solutions with pre-defined information necessary to complete a CSP, including:
 - Incident notification preferences and procedure.
 - Repair verification preference and procedure.
 - Database and escalation procedure forms.
- Submit changes in any information supplied to Motorola Solutions and included in the CSP to the MDPD Support Manager ("CSM").
- Notify the CMSO when the MDPD performs any activity that impacts the backhaul components. Activity that impacts the backhaul components may include but is not limited to: installing software or hardware upgrades, performing upgrades to the network, renaming elements or devices within the network, and taking down part of the system to perform maintenance.
- Allow Motorola Solutions' field service technician, designated in the CSP, access to equipment, including any connectivity or monitoring equipment, if remote service is not possible.
- Allow Motorola Solutions' field service technician, designated in the CSP, access to remove Motorola Solutions-owned monitoring equipment upon cancellation of service.
- Provide Motorola Solutions with all MDPD-managed passwords required to access the MDPD's system upon request, when opening a request for service support, or when needed to enable response to a technical issue. Such passwords and the uses thereof shall be secured as directed by MDPD.
- Negotiate additional charges above the contracted service agreements that may apply if it is determined that backhaul faults were caused by the MDPD making changes to critical system parameters without written agreement from Motorola Solutions.
- Cooperate with Motorola Solutions and perform commercially reasonable as necessary acts to enable Motorola Solutions to provide these services.
- Acknowledge that incidents will be handled in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.

A.3.13 Remote Technical Support

A.3.13.1 Description of Service

Motorola Solutions' Remote Technical Support service shall provide telephone consultation for technical issues that require ASTRO 25 Connectivity Service backhaul knowledge and troubleshooting capabilities. As with ASTRO 25 incidents, the CMSO Service Desk shall respond to ASTRO 25 Connectivity Service incidents.

A.3.13.2 Scope

The CMSO Service Desk shall be available via telephone 24 hours per day, 7 days per week, and 365 days per year to receive and log requests for technical support. Remote Technical Support service is provided in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times. Any unresolved incidents will be escalated to Motorola Solutions engineering and Original Equipment Manufacturers (OEM) for further assistance.

A.3.13.3 Motorola Solutions Responsibilities

- Maintain availability of the Motorola Solutions CMSO Service Desk via telephone (800-221-7144) 24 hours per day, 7 days per week, and 365 days per year to receive, log, and classify MDPD requests for support.
- Respond to requests for service in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.
- Provide caller a plan of action outlining additional requirements, activities, or information required to achieve restoral/fulfillment.
- Maintain communication with MDPD in the field as needed until resolution of the incident.
- Coordinate technical resolutions with agreed upon third-party vendors, as needed.
- Escalate support issues to additional Motorola Solutions technical resources, as applicable.
- Determine, in its sole discretion, when an incident requires more than the Remote Technical Support services described in this SOW and notify MDPD of an alternative course of action.

A.3.13.4 Limitations and Exclusions

The following activities are outside the scope of the Remote Technical Support service (such service may be provided under other provisions of Appendix A-2):

- MDPD training.
- Remote Technical Support for network transport equipment or third-party products not sold by Motorola Solutions.
- Any maintenance and/or remediation required because of a virus or unwanted cyber intrusion.

A.3.13.5 MDPD Responsibilities

- Submit changes in any information supplied in the CSP to the Customer Support Manager ("CSM").
- Contact the CMSO Service Desk to engage the Remote Technical Support service when needed, providing the necessary information for proper entitlement services. This information includes, but is not limited to, the name of contact, name of Customer, system ID number, site(s) in question, and a brief description of the problem that contains pertinent information for initial issue classification.

- Contract Motorola technicians familiar with the operation of the MDPD's system to provide field maintenance and technical maintenance services for the system.
- Supply suitably skilled and trained on-site presence for the MDPD County 800MHz P25 System and ISSI Gateway when requested.
- Validate issue resolution in a timely manner prior to close of the incident.
- Acknowledge that incidents will be handled in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.
- Cooperate with Motorola Solutions, performing acts that are commercially reasonable acts
 as necessary to enable Motorola Solutions to provide Remote Technical Support. These
 actions include, but are not limited to, providing System IP information, local hardware logs,
 software versions, and MDPD change management information.

A.3.14 On-Site Response

Motorola Solutions shall provide On-site Response service which includes incident management and escalation for on-site technical service requests. The service is delivered by Motorola Solutions' Centralized Managed Support Operations ("CMSO") organization in cooperation with a local service provider.

A.3.14.1 Description of Service

The Motorola Solutions CMSO Service Desk shall receive MDPD's request for on-site service.

The CMSO Dispatch Operations team is responsible for opening incidents, dispatching on-site resources, monitoring issue resolution, and escalating as needed to achieve response time goals.

The dispatched field service technician will travel to MDPD's location to restore the system in accordance with Section A.3.10.3: Incident Priority Definitions and Response Times.

Motorola Solutions shall manage incidents as described in this SOW. The CMSO Service Desk will maintain contact with the field service technician until incident closure.

A.3.14.2 Scope

On-site Response is available as needed to support the availability described in Availability Goals.

A.3.14.3 Inclusions

On-site Response is provided for hardware included with ASTRO 25 Connectivity Service.

A.3.14.4 Motorola Solutions Responsibilities

- Receive service requests.
- Create an incident when service requests are received. Gather information to characterize the issue, determine a plan of action, and assign and track the incident to resolution.
- Dispatch a field service technician, as required by Motorola Solutions' standard procedures, and provide necessary incident information.
- Provide the required personnel access to relevant MDPD information, as needed.
- Motorola Solutions designated field service technician will perform the following on-site:
 - Run diagnostics on the component.

- Perform physical fault restoration and hardware maintenance to restore component functions.
- Provide materials, tools, documentation, physical planning manuals, diagnostic and test equipment, and any other material required to perform the maintenance service.
- If a third-party vendor is needed to restore the system, the vendor can be accompanied onto MDPD's premises.
- If required by MDPD's repair verification in the Customer Support Plan ("CSP"), verify with MDPD that restoration is complete, or system is functional. If verification by MDPD cannot be completed within 20 minutes of restoration, the incident will be closed, and the field service technician will be released.
- Escalate the incident to the appropriate party upon expiration of a response time.
- Close the incident upon receiving notification from MDPD or Motorola Solutions on-site service technician, indicating the incident is resolved.
- Notify MDPD of incident status, as defined in the CSP and Service Configuration Portal ("SCP"):
 - Open and closed.
 - Open, assigned to the Motorola Solutions field service technician, amival of the servicer technician on-site, delayed, or closed.
- Provide incident activity reports to MDPD, if requested.

A.3.14.5 MDPD Responsibilities

- Contact Motorola Solutions, as necessary, to request service.
- Prior to start date, provide Motorola Solutions with MDPD information and preferences necessary to complete CSP.
- Submit changes in any information supplied in the CSP to the Customer Support Manager ("CSM").
- Provide the following information when initiating a service request:
 - Assigned system ID number.
 - Problem description and site location.
 - Other pertinent information requested by Motorola Solutions to open an incident.
- Provide field service technician with access to equipment.
- Provide storage for software needed to restore the system in an easily accessible location.
- Provide storage for proper system backups in an easily accessible location.
- If required by repair verification preference provided by MDPD, verify with the CMSO Service Desk and dispatch that restoration is complete, or system is functional.
- Cooperate with Motorola Solutions and perform commercially reasonable acts as necessary to enable Motorola Solutions to provide these services.

A.3.15 Software Updates

A.3.15.1 Description of Service

As needed, Motorola Solutions shall provide relevant Original Equipment Manufacturer ("OEM") software patches for backhaul equipment included as part of the ASTRO 25 Connectivity Service. These patches will update equipment when required to maintain compatibility with components or will address security vulnerabilities.

A.3.15.2 Scope

Motorola Solutions shall update network components when it determines it is necessary to maintain the ASTRO 25 Connectivity Service, and will provide security updates as needed to address identified security vulnerabilities.

Software Updates follow Motorola Solutions' defined change management process to avoid potential disruption. Once an OEM software update is available, Motorola Solutions initiates the change process to define the update's impact and work with MDPD to schedule its implementation.

A.3.15.3 Inclusions

Motorola Solutions shall provide relevant software patches and updates as provided by OEMs based on a schedule mutually agreed by the parties.

A.3.15.4 Motorola Solutions Responsibilities

- Provide relevant software and security patches to MDPD when provided by the OEM.
- Notify MDPD if an update will require network downtime to implement.
- Work with MDPD to schedule installation of disruptive software patches.

A.3.15.5 Limitations and Exclusions

 Motorola Solutions does not provide warranties on software updates other than Available warranties on software updates provided directly by the OEM.

A.3.15.6 MDPD Responsibilities

• Work with Motorola Solutions to schedule installation of disruptive software patches.

A.4 Advanced Plus Services

A.4.1 Overview

Motorola Solutions shall provide Advanced Plus Services for ASTRO 25 infrastructure including a comprehensive program to sustain the long-term performance of MDPD's network. Advanced Plus Services consists of the following elements:

- Network Event Monitoring.
- Remote Technical Support.
- Network Hardware Repair with Advanced Replacement.
- Remote Security Update Service (RSUS).
- OnSite Infrastructure Response.
- Annual Preventive Maintenance.
- Network Updates.
- Managed Detection and Response.

Together, these elements will help to avoid operational disruptions and maintain the value of MDPD's communications investment.

A.4.2 Advanced Plus Services Element Descriptions

The following sections describe the elements for MDPD's ASTRO 25 infrastructure.

A.4.2.1 Network Event Monitoring

Motorola Solutions shall continuously monitor MDPD's ASTRO 25 network to detect potential issues or communications outages, maximizing network uptime. Motorola Solutions assesses each alert with advanced event detection and correlation algorithms to determine how to respond. Potential responses include remote restoration or dispatching a local field technician to resolve the incident on-site.

A.4.2.2 Remote Technical Support

Motorola Solutions' Centralized Managed Support Operations (CMSO) shall provide Remote Technical Support for infrastructure issues that require specific technical expertise. Experienced technical support specialists will be available to consult with MDPD to help diagnose, troubleshoot, and resolve infrastructure issues. Service Desk maintenance procedures and incident resolution techniques are based on ISO 9001 and TL 9000 standards.

A.4.2.3 Network Hardware Repair with Advanced Replacement

To restore MDPD's ASTRO 25 network components if they malfunction, Motorola Solutions shall repair Motorola Solutions-provided infrastructure equipment. This includes select third-party infrastructure equipment supplied by Motorola Solutions. Motorola Solutions will ship and return repaired equipment and will coordinate the repair of third-party solution components.

To reduce the impact of a malfunction, Motorola Solutions will exchange malfunctioning equipment with Advanced Replacement units or Field Replacement Units (FRU), as available. Motorola Solutions' repair depot will diagnose and repair malfunctioning components, and once repaired, add those to the depot's FRU inventory. Replacement components will remain in MDPD's ASTRO 25 network to maintain continued network functionality.

A.4.2.4 Remote Security Update Service

Commercial security software updates are often designed without consideration for specialized systems like radio communications networks. These updates may inadvertently disrupt ASTRO 25 network operations and functionality.

To minimize cyber risks and software conflicts, Motorola Solutions shall provide the Remote Security Update Service (RSUS). With this service, Motorola Solutions shall deploy antivirus and operating system security updates on an ASTRO 25 network in a dedicated information assurance lab to test and validate them for use with ASTRO 25 networks.

Motorola Solutions tests whether applying these security updates degrades network service. If an update degrades performance, Motorola Solutions searches for a solution or workaround to address the issue before releasing that update.

With RSUS, Motorola Solutions shall remotely install tested updates on MDPD's ASTRO 25 network. If there are any recommended configuration changes, warnings, or workarounds, Motorola Solutions will provide detailed documentation on a secured extranet website.

A.4.2.5 OnSite Infrastructure Response

Motorola Solutions shall provide repair service from trained and qualified technicians. Once dispatched, technicians will travel to MDPD's ASTRO 25 network location to diagnose issues and restore functionality. These technicians will run diagnostics on hardware to identify defective

components, and repair or replace them as appropriate. Infrastructure Response times are based on a given issue's impact on overall system function.

A.4.2.6 Annual Preventive Maintenance

Motorola Solutions shall annually test and service network components. Qualified field technicians will perform routine hands-on examination and diagnostics of network equipment to keep them operating according to original manufacturer specifications.

A.4.2.7 Network Updates

The Network Updates service provides public safety radio system release updates on a consistent, budgeted plan. These updates maintain reliable network operations and cybersecurity protection. In addition, Network Updates keeps MDPD's ASTRO 25 network compatible with expansion elements, as well as new products or features. With Network Updates, MDPD's network will remain on a release that qualifies for support services.

Motorola Solutions shall deliver updates based on a predefined cadence of upgrade windows, with up to one update in each window. The Network Updates service includes the following:

- Software Release Updates Motorola Solutions-certified software that improves network functions over previous releases. This also includes commercial operating system and application software updates.
- Hardware Update When needed to support a software release update, Motorola Solutions provides new hardware. New hardware will both support the new software update, as well as maintain existing functions and features.
- **Professional Implementation Services** Motorola Solutions shall plan and implement updates at MDPD's site. This includes factory integration, testing, and supply chain management for new software and hardware.

With these services, MDPD will have access to the technology, support, and planning expertise needed for an effective upgrade.

A.4.2.8 Managed Detection and Response

Experienced, specialized security analysts from Motorola Solutions' Security Operations Center (SOC), using the ActiveEye Security Platform, monitor MDPD's ASTRO 25 radio network and Customer Enterprise Network (CEN) for cybersecurity threats. When a threat is detected, SOC analysts shall investigate and coordinate with MDPD to mitigate threats.

MDPD can use the ActiveEye Security Platform to configure alerts and notifications, review security data, and perform security investigations.

A.4.3 Motorola Solutions Service Delivery Ecosystem

Motorola Solutions shall provide Advanced Plus Services delivered through a tailored combination of field service personnel, centralized teams, product repair depots, and MyView Portal. These service resources will collaborate to swiftly analyze network issues, accurately diagnose root causes, and efficiently resolve issues to return the network to normal operation.

Motorola Solutions Advanced Plus Services will be delivered by staff experienced in servicing mission-critical networks. Motorola Solutions uses the Information Technology Infrastructure Library (ITIL) framework to define service tasks based on industry-recognized best practices. As

staff perform tasks, service incident information will be available to MDPD's administrators and personnel through MyView Portal.

Service activities and Motorola Solutions' service team are described in more detail below.

A.4.3.1 Centralized Managed Support Operations

The cornerstone of Motorola Solutions' support process is the Centralized Managed Support Operations (CMSO) organization. This TL 9000/ISO 9001-certified organization is staffed 24x7x365 by experienced service desk specialists, security analysts, and operations managers. The CMSO houses critical central functions, including the Service Desk.

The CMSO Service Desk shall serve as a single point of contact for Advanced Plus Services. It processes service requests, service incidents, change requests, and dispatching. The Service Desk communicates necessary information to stakeholders, bridging communications among MDPD, Motorola Solutions, and third-party subcontractors.

Service Desk teams record, track, and update incidents through the Motorola Solutions Customer Relationship Management (CRM) system. They document and respond to inquiries, requests, concerns, and service tickets. When an incident is initiated, the CMSO will engage with teams to resolve that incident. The CMSO will escalate to new teams when needed. Depending on the incident, the CMSO will coordinate incident resolution with local field service and authorized repair depots.

A.4.3.2 Field Service

Motorola Solutions authorized and qualified field service technicians shall perform the On-site Infrastructure Response service, repair malfunctioning hardware in the field, and conduct preventive maintenance tasks. These technicians will coordinate with the Service Desk, technical support teams, and product engineering as needed to resolve incidents.

A.4.3.3 Repair Depot

The Motorola Solutions Repair Depot shall provide MDPD with a central repair location. This will eliminate the need to send network equipment to multiple vendor locations for repair. Motorola Solutions tracks products sent to the Depot via a case management system throughout the repair process. This system will enable MDPD's representatives to check repair status, from inbound shipment to return.

A.4.3.4 Customer Support Manager

A Motorola Solutions Customer Support Manager (CSM) will be MDPD's key point of contact for the definition and administration of services. The CSM will work with MDPD to define service delivery details to address MDPD's specific priorities.

A.4.3.5 MyView Portal

To provide MDPD with quick access to service details, Motorola Solutions shall provide the MyView Portal online network information tool. MyView Portal provides MDPD with real-time critical network and services information through an easy-to-use graphical interface.



Figure A-1: MyView Portal offers real-time, role-based access to critical network and services information.

With MyView Portal, MDPD's administrators will be able to monitor system health and maintenance updates. Capabilities include:

- Viewing network and support compliance.
- Viewing incident reports.
- · Updating and creating incidents.
- · Checking system update status.
- Receiving pro-active notifications regarding updates.

Available 24x7x365 from any web-enabled device, the information provided by MyView will be based on your needs and user access permissions, ensuring that the information displayed is secure and pertinent to your operations.

Appendix B.

COMMANDCENTRAL AWARE SOLUTION

B.1 System Description

B.1.1 Overview

Motorola Solutions shall provide MDPD with CommandCentral Aware which allows MDPD users the ability to communicate with confidence, knowing their information is hosted in the highly secure Microsoft Azure cloud.

Designated Entities

The entities participating in the CommandCentral Aware solution are:

Miami-Dade County Police Department, Florida.

Application Software and System Components

The CommandCentral Aware solution includes the following elements:

- CommandCentral Aware Standard with 1,000 Named User Licenses and 5-year subscription.
- Accuweather Service.
- Agency Published Esri Data Sets Integration.
- Sierra Wireless Modem Device Location on Cadence.
- One Cloud Anchor Server Hardware.
- Software Maintenance and Technical Support.
- · Services as described in the Statement of Work.

B.1.2 CommandCentral Aware Technical Discovery Requirements

In order to prevent delay in the implementation, MDPD shall provide the information required in Table B-1 below at the time of Project Kickoff for each interface/integrated system.

Table B-1: Aware Technical Discovery Requirements

	Miami-Dade Provided	Motorola Solutions Confirmed
Additional Information for Virtual Ma	chine (VM) Acce	ss
Remote access to Cloud Anchor Server	=1= =1	
Data Interface VM requirements	a = 1 11 - 11 - 121	v_ —
Integration		
Miami-Dade IP Network layout (Traffic segmentation, NAT required?)		
Active Directory and Email policies		
Miami-Dade Third-Party IP Network Connections (Schools, Fire, Traffic)		- 15 to
Remote Access Policy/Procedures		
Who owns/maintains each Miami-Dade network/firewalls?		
Wireless Access		8
VPN Connectivity to Core?		
Validate Data Ingestion (may require system expansion**)		y-1

B.1.3 Hardware Environment and Network Requirements

Motorola Solutions shall work with Miami-Dade IT personnel to verify that connectivity meets requirements. The County shall provide the network components.

Table B-2: Cloud Anchor Server Installation Requirements

Installation Requirements	
One rack unit per Cloud Anchor server.	
Two circuits to distribute power to the server rack (dual power supplies).	
UPS (Uninterruptible Power Supply) at the site where the Cloud Anchor server and CommandCentral Aware workstations will be installed.	
Miami-Dade provided Internet access and Remote Access Capability.	
Minimum 1.1Mbps between Cloud Anchor Server and CommandCentral Aware platform.	

CommandCentral Aware Design Limitations

 A maximum of 3000 Icons viewed on the CommandCentral Aware client at one time, per instance.

- A maximum of 100 updates per second on the CommandCentral Aware client.
- A maximum 5000 radios per server.

Broadband Device Locationing Requirements

Broadband devices require a data subscription. The broadband subscription is not included in the price of the CommandCentral Aware.

Broadband Infrastructure Requirements

Broadband networks should provide connectivity over 4G LTE, or fourth-generation mobile data technology Long-term Evolution, as defined by the International Telecommunication Union's Radio Sector (ITU-R) and/or Wi-Fi defined as IEEE Standard 802.11 (preferably 802.11ac or 802.11n).

B.1.4 CJIS and Compliance

Motorola shall employ privacy and security protocols that enable MDPD to comply with the most stringent legal and regulatory requirements. In addition, Motorola Solutions builds on a strong foundation with an Azure architecture designed and managed to meet a broad set of international compliance standards, as well as region-specific and industry-specific standards.

• Motorola Solutions employs rigorous third-party audits to verify its adherence to security controls and standards. To demonstrate Motorola Solutions safeguarding of MDPD's data, comprehensive third-party audits of primary Software Enterprise development and support operations have been completed and those operations have achieved ISO/IEC 27001:2013 (information security management systems) certification and AICPA SOC2 Type 2 reports will be available in early 2021. ISO/IEC 27017:2015 (information security controls for cloud services), ISO/IEC 27018:2019 (protection of personal information in public clouds) and ISO/IEC 27701:2019 (privacy information management) will be available in mid-2021. Supplemental SOC2 Type 2 reports and ISO/IEC 27001:2013 certifications for the development and support operations at satellite locations will be complete by the end of 2021.

The CommandCentral Aware product and services shall be designed to support compliance with the FBI's Criminal Justice Information Services (CJIS) Security Policy and complies with the terms of the CJIS Security Addendum. A dedicated team of CJIS compliance professionals shall be available to assist MDPD through administering and coordinating CJIS-compliant personnel credentialing, providing documentation assistance in connection with CJIS audits, and advising on how to configure and implement our solutions in a manner consistent with the CJIS Security Policy.

B.2 Statement of Work

B.2.1 Introduction

In accordance with the terms and conditions of the Agreement, this Statement of Work defines the principal activities and responsibilities of all parties for the delivery of the Motorola Solutions ("Motorola Solutions") CommandCentral Aware to MDPD. When assigning responsibilities in this section, the phrase "Motorola Solutions" includes our subcontractors and third-party partners.

Deviations and changes to this section are subject to duly approved mutual agreement in writing between Motorola Solutions and MDPD and will be addressed in accordance with the change provisions of the Agreement.

Unless specifically stated, Motorola Solutions work is performed remotely. MDPD shall provide Motorola Solutions resources with mutually acceptable network access to enable Motorola Solutions to fulfill its delivery obligations.

Motorola Solutions and MDPD will work to complete their respective responsibilities in accordance with the mutually agreed upon governing Project Schedule. Any changes to the governing Project Schedule will be mutually agreed upon via the change provision of the Agreement.

The number and type of software or subscription licenses, products, or services provided by Motorola Solutions or its subcontractors are specifically listed in the Agreement and any reference within this document as well as subcontractors' SOWs (if applicable) does not imply or convey a software or subscription license or service that are not explicitly listed in the Agreement.

B.2.1.1 Award, Administration and Project Initiation

Project Initiation and Planning shall begin following execution of the Agreement between Motorola Solutions and MDPD.

Following the conclusion of the Project Planning Session, the Motorola Solutions Project Manager shall conduct twice monthly one-hour remote status meetings with the MDPD Project Manager for the purpose of baselining progress of current activities and the planning of future activities. Following the conclusion of the Contract Design Review, the Motorola Solutions Project Manager shall prepare and submit monthly status reports to the MDPD Project Manager. Monthly Status Reports provide a summary of the activities completed in the month, those activities planned for the following month, project progress against the project schedule, items of concern requiring attention as well as potential project risks and agreed upon mitigation actions.

B.2.1.2 Completion and Acceptance Criteria

Motorola Solutions Integration Services are considered complete upon Motorola Solutions performing the last task listed in a series of responsibilities or as specifically stated in Completion Criteria to the satisfaction of the MDPD. Customer task completion will occur per the project schedule enabling Motorola Solutions to complete its tasks without delay.

MDPD shall provide Motorola Solutions written notification that it does not accept the completion of Motorola Solutions responsibilities or rejects a Motorola Solutions service deliverable within five (5) business days of completion or receipt of a deliverable.

The Service Completion will be acknowledged in accordance with the terms of Master Customer Agreement and the Service Completion Date will be memorialized by Motorola Solutions and MDPD. Software System Completion will be in accordance with the terms of the Software Products Addendum unless otherwise stated in this Statement of Work.

B.2.2 Project Roles and Responsibilities Overview

B.2.2.1 Motorola Solutions Project Roles and Responsibilities

A Motorola Solutions team, made up of specialized personnel, shall be appointed to the project under the direction of the Motorola Solutions Project Manager. Team members will be multi-disciplinary and may fill more than one role. Team members will be engaged in different phases of the project as necessary.

In order to maximize efficiencies Motorola Solutions' project team shall provide services remotely via teleconference, web-conference or other remote method in filling its commitments as outlined in this Statement of Work. Motorola Solutions project team resources shall be on site at the Miami-Dade location when fulfilling commitments that are crucial to project success as noted in this Statement of Work.

The personnel role descriptions noted below provide an overview of typical project team members. There may be other personnel engaged in the project under the direction of the Project Manager. The following provided descriptions of the primary roles engaged in the delivery of the project. One or many resources of the same type may be engaged as needed throughout the project.

Motorola Solutions' project management approach has been developed and refined based on lessons learned in the execution of hundreds of system implementations. Using experienced and dedicated people, industry-leading processes, and integrated software tools for effective project execution and control, we have developed and refined practices that support the design, production, and testing required to deliver a high-quality, feature-rich system.

Project Manager

A Motorola Solutions Project Manager shall be assigned as the principal business representative and point of contact for the organization. The Project Manager's responsibilities include:

- Manage the Motorola Solutions responsibilities related to the delivery of the project.
- Maintain the project schedule and manage the assigned Motorola Solutions personnel and applicable subcontractors/supplier resources.
- Manage the Change Order process per the Agreement.
- Maintain project communications with MDPD.
- Identify and manage project risks.
- Collaborative coordination of Customer resources to minimize and avoid project delays.
- Measure, evaluate, and report the project status against the Project Schedule.
- Conduct remote status meetings on a mutually agreed basis to discuss project status.

- Prepare and submit a monthly status report that identifies the activities of the previous month, as well as activities planned for the current month, including an updated Project Schedule and action item log.
- Provide timely responses to issues related to project progress.

Solutions Architect

The Solutions Architect is responsible for the delivery of the technical and equipment elements of the solution. They confirm the delivered technical elements meet contracted requirements. They are engaged throughout the duration of the delivery.

Customer Success Advocate

A Customer Success Advocate shall be assigned to MDPD post Go Live event. By being MDPD's trusted advisor, MDPD Success Advocate' responsibilities include:

- Assist MDPD with maximizing the use of their Motorola Solutions software and service investment.
- Actively manage, escalate, and log issues with Support, Product Management, and Sales.
- Provide ongoing customer communication about progress, timelines, and next steps.

Customer Support Services Team

The Customer Support Services team will provide ongoing support following commencement of beneficial use of MDPD's System(s) as defined in Customer Support Plan.

B.2.2.2 Customer Project Roles and Responsibilities Overview

The success of the project is dependent on early assignment of key MDPD resources. It is critical these resources are empowered to make provisioning decisions based on MDPD's operational and administration needs. The MDPD project team should be engaged from project initiation through beneficial use of the system. The continued involvement in the project and use of the system will convey the required knowledge to maintain the system post completion of the project. In some cases, one person may fill multiple project roles. The project team must be committed to participate in activities for a successful implementation.

Project Manager

The Project Manager will act as the primary MDPD point of contact for the duration of the project. In the event the project involves multiple agencies, Motorola Solutions will work exclusively with a single MDPD assigned Project Manager (the primary Project Manager). This includes the management of any third-party vendors that are MDPD Subcontractors. The Project Manager's responsibilities include:

- Communicate and coordinate with other project participants.
- Manage the MDPD project team including timely facilitation of efforts, tasks, and activities.
- Maintain project communications with the Motorola Solutions Project Manager.
- Identify the efforts required of MDPD staff to meet the task requirements and milestones in this SOW and Project Schedule.
- Consolidate all project-related questions and queries from MDPD staff to present to the Motorola Solutions Project Manager.
- Review the Project Schedule with the Motorola Solutions Project Manager and finalize the detailed tasks, task dates, and responsibilities.
- Measure and evaluate progress against the Project Schedule.

- Monitor the project to ensure resources are available as scheduled.
- Attend status meetings.
- Provide timely responses to issues related to project progress.
- Liaise and coordinate with other agencies, MDPD vendors, contractors, and common carriers.
- Review and administer change control procedures, hardware and software certification, and all related project tasks required to maintain the Project Schedule.
- Ensure MDPD vendors' adherence to overall Project Schedule and Project Plan.
- Assign one or more personnel who will work with Motorola Solutions staff as needed for the duration of the project, including at least one representative(s) from the IT department.
- Identify the resource with authority to formally acknowledge and approve Change Orders, approval letter(s), and milestone recognition certificates as well as approve and release payments in a timely manner.
- Provide building access to Motorola Solutions personnel to all Miami-Dade facilities where system equipment is to be installed during the project. Temporary identification cards are to be issued to Motorola Solutions personnel if required for access to facilities.
- Ensure remote network connectivity and access to Motorola Solutions resources.
- As applicable to this project, assume responsibility for all fees for licenses and inspections and for any delays associated with inspections due to required permits.
- Provide reasonable care to prevent equipment exposure to contaminants that cause damage to the equipment or interruption of service.
- Ensure a safe work environment for Motorola Solutions personnel.
- Provide signatures of Motorola Solutions-provided milestone certifications and Change Orders within five (5) business days of receipt.

Transformation Lead

The Transformation Lead, who may or may not be MDPD's Project Manager, must be able to holistically represent your organization and be able to work cross functionally between Motorola Solutions, your organization, and all stakeholders involved in the delivery of your new system subject to authorization by the Board of County Commissioners as required by applicable County law, rules and regulations. The Transformation Lead must be empowered to acknowledge the resource and time commitments required of your organization and authorize Motorola Solutions to proceed with scheduling the Project Kickoff event.

System Administrator

The System Administrator manages the technical efforts and ongoing tasks and activities of their system as defined in the Customer Support Plan (CSP).

IT Personnel

IT personnel provide required information related to LAN, WAN, wireless networks, server, and client infrastructure. They must also be familiar with connectivity to internal, external, and third-party systems to which the Motorola Solutions system will interface.

Additional Resources

Additional resources, such as trainers and database administrators may also be required.

User Agency Stakeholders

User Agency Stakeholders, if the system is deployed in a multi-agency environment, are those resources representing agencies outside of MDPD. These resources will provide provisioning inputs to the SMEs if operations for these agencies differ from that of MDPD.

B.2.2.3 General MDPD Responsibilities

In addition to the MDPD Responsibilities stated elsewhere in this SOW, MDPD is responsible for:

- All Customer-provided equipment including hardware and third-party software necessary for delivery of the System not specifically listed as a Motorola Solutions deliverable. This will include end user workstations, network equipment, telephone, or TDD equipment and the like.
- Initiate, coordinate, and facilitate communication between Motorola Solutions and Customer's third-party vendors as required to enable Motorola Solutions to perform its duties.
- Active participation of MDPD Subject Matter Experts (SME's) in project delivery meetings and working sessions during the course of the project. MDPD SME's will possess requisite knowledge of MDPD operations and legacy system(s) and possess skills and abilities to operate and manage the system.
- The provisioning of MDPD GIS data as requested by Motorola Solutions. This information must be provided in a timely manner in accordance with the Project Schedule.
- Electronic versions of any documentation associated with the business processes identified.
- Providing a facility with the required computer and audio-visual equipment for training and work sessions as defined in the Training Plan.
- Ability to participate in remote project meeting sessions using Zoom.

B.2.2.4 Project Planning and Pre-Implementation Review

In order to establish initial expectations for CommandCentral Aware deployment and to raise immediate visibility to ongoing operation and maintenance requirements, Motorola Solutions shall work with MDPD to assist in understanding the impact of introducing a new solution and your preparedness for the implementation and support of the CommandCentral system.

Shortly after contract signing, Motorola Solutions shall conduct a one—on—one teleconference with MDPD's designated resource to review the task requirements of each phase of the project and help to identify areas of potential risk due to lack of resource availability, experience or skill.

The teleconference discussion will focus on the scope of implementation requirements, resource commitment requirements, cross–functional team involvement, a review of the required technical resource aptitudes and a validation of existing skills, and resource readiness in preparation for the Project Kickoff meeting.

Motorola Solutions Responsibilities

- Make initial contact with MDPD Project Manager and schedule the Pre-Implementation Review teleconference.
- Discuss the overall project deployment methodologies, inter-agency/inter-department decision considerations (as applicable), and third-party engagement/considerations (as applicable).
- Discuss MDPD involvement in system provisioning and data gathering to understand scope and time commitment required.

- Discuss the online Learning Management System (LMS) training approach.
- Obtain mutual agreement of the Project Kickoff meeting agenda and objectives.
- Discuss the CommandCentral Solution Discovery Requirements checklist and verify MDPD has a copy of the checklist.
- Coordinate enabling designated MDPD administrator with access to the LMS and CommandCentral Admin Console.

MDPD Responsibilities

- Provide Motorola Solutions with the names and contact information for the designated LMS and application administrators.
- Collaborate with the Motorola Solutions PM and set the Project Kickoff meeting date.

B.2.2.5 Project Kickoff Teleconference

The purpose of the project kickoff is to introduce project participants and review the overall scope of the project.

Motorola Solutions Responsibilities

- Conduct a project kickoff teleconference.
- Validate key project team participants attend the meeting.
- Introduce all project participants.
- Review the roles of the project participants to identify communication flows and decision—making authority between project participants.
- Review the overall project scope and objectives.
- Review the resource and scheduling requirements.
- Review the teams' interactions (meetings, reports, milestone acceptance) and MDPD participation.
- Verify MDPD Administrator(s) have access to the LMS and CommandCentral Admin Console.

MDPD Responsibilities

- Validate key project team participants attend the meeting.
- Introduce all project participants.
- Review the roles of the project participants to identify communication flows and decision—making authority between project participants.
- Provide VPN access to Motorola Solutions staff to facilitate delivery of services described in this Statement of Work.
- Validate any necessary non-disclosure agreements, approvals, and other related issues are complete in time so as not to introduce delay in the project schedule. Data exchange development must adhere to third-party licensing agreements.
- Provide all paperwork and/or forms (i.e. fingerprints, background checks, card keys and any
 other security requirement) required of Motorola Solutions resources to obtain access to
 each of the sites identified for this project.
- Provide the contact information for the license administrator for the project. i.e., IT Manager,
 CAD Manager, and any other key contact information as part of this project.
- Validate access to the LMS and CommandCentral Admin Console.
- Provide the information required in the CommandCentral Solution Discovery Requirements checklist.

B.2.3 Contract Design Review (CDR)

B.2.3.1 Contract Design Review

The objective is to review the contracted applications, project schedule, bill of materials, functional demonstration approach and contractual obligations of each party. The CDR commences upon conclusion of the Project Kickoff session.

Any changes to the contracted scope can be initiated via the change provision of the Agreement.

Motorola Solutions Responsibilities

- Review the Ordering Documents: System Description, Statement of Work and Project Schedule.
- Review the technical, environmental and network requirements of the system.
- Review the initial Project Schedule and incorporate MDPD feedback resulting in the
 implementation project schedule. The project schedule will be maintained by Motorola
 Solutions and updated through mutual collaboration. Schedule updates that impact
 milestones will be addressed via the change provision of the Agreement.
- Review and order contacted hardware.
- Review the functional demonstration process for CommandCentral Solution and interfaces.
- Request shipping address and receiver name.
- Provide completed paperwork, provided to Motorola Solutions during project kickoff that enables Motorola Solutions resources to obtain site access.
- Review the information in MDPD provided CommandCentral Solution Discovery Requirements checklist.
- Grant MDPD Administrator with access to CommandCentral Admin Console.
- Grant MDPD LMS Administrator with access to the LMS.
- Generate a CDR Summary report documenting the discussions, outcomes and any required change orders.

MDPD Responsibilities

- Project Manager and key MDPD assigned designees attend the meeting.
- Provide network environment information as requested.
- Providing shipping address and receiver name.
- Provide locations and access to the existing data and video equipment that will be part of the CommandCentral system per the Agreement.

Completion Criteria

The CDR is complete upon MDPD receipt and acceptance of the CDR Summary report.

B.2.4 Hardware/Software

Hardware and software activities account for the procurement, staging and configuration of server hardware.

B.2.4.1 CloudConnect Server Staging

The objective of this activity is to install the software components on the Motorola Solutions' provided server at Motorola's staging facility. The server will be tested and verified by Motorola

Solutions to be operational in a staged environment. Once validated, the server will be packaged and shipped to MDPD's location for installation.

Motorola Solutions Responsibilities

- Order contracted server related components for delivery to the staging facility.
- Install and configure system software.
- Ship staged system to MDPD's installation site.

MDPD Responsibilities

- Receive the staged server and securely store it until Motorola Solutions installation.
- Provide power and assign network IP addresses. Provide backup power, as necessary.
- Provide network connectivity between the various networks.
- Provide acknowledgement of receipt of delivered equipment.

Motorola Solutions Deliverables

Title/Description	
Equipment Inventory	
Staged System Delivery	

B.2.4.2 CloudConnect Server Configuration

Motorola Solutions Responsibilities

- · Remotely configure Server and install VSphere license.
- Remotely configure network connectivity and test connection to the server.

MDPD Responsibilities

Provide remote access to the server.

Completion Criteria

CloudConnect Server configuration is complete.

B.2.4.3 Workstation Installation and Configuration

The objective of this activity is to configure and install MDPD provided workstation and monitors.

Motorola Solutions Responsibilities

- Verify remote access capability after MDPD completes physical installation.
- Configure workstations and monitors for Command Central Aware.

MDPD Responsibilities

- Perform physical installation of the CommandCentral Aware workstations. Connect to power and network. Assign IP addresses for the network.
- Provide remote access to the CommandCentral Aware workstations.

Completion Criteria

CommandCentral Solution workstation configuration is complete.

B.2.4.4 Integration Activities

Proprietary processes enable the transfer and receipt of data between Motorola Solutions systems as described in the System Description.

Motorola Solutions Responsibilities

- Establish and validate connectivity between the Motorola Solutions systems.
- Validate each system can transmit and/or receive data.

MDPD Responsibilities

- Provide personnel proficient with and authorized to make changes to the network and thirdparty systems to support Motorola Solutions' integration efforts.
- Provide network connectivity between the Motorola systems.

B.2.4.5 ASTRO 25 Location Integration

Motorola Solutions Responsibilities

- Configure connection between CloudConnect Server and Cloud-based CommandCentral Aware application.
- Provision subscribers and Sierra Wireless modems as needed.

MDPD Responsibilities

None

B.2.4.6 CommandCentral Solution Geospatial Mapping Configuration

Motorola Solutions Responsibilities

- Installation and configuration of the connection to the Miami-Dade mapping system, (i.e. ESRI online, ESRI server, or static map layers).
- Test mapping layers and links to validate CommandCentral Solution is accessing and utilizing MDPD published GIS data.

MDPD Responsibilities

- Provide access to ESRI/GIS system and/or GIS personnel.
- Provide published GIS map layers.
- Work with Motorola Solutions staff to publish specific maps beneficial to the MDPD analysts.

Completion Criteria

 CommandCentral Solution Geospatial Mapping configuration is complete and accepted by MDPD.

B.2.5 CommandCentral Provisioning

B.2.5.1 CommandCentral Solution

Motorola Solutions will discuss industry best practices, current operations environment and subsystem integration in order to determine the optimal configuration for CommandCentral Solution.

Motorola Solutions Responsibilities

 Using the CommandCentral Admin Console, provision users, groups, rules and based off MDPD Active Directory data.

MDPD Responsibilities

 Supply the access and credentials to MDPD's Active Directory for the purpose of Motorola Solutions conducting CommandCentral Solution provisioning. Respond to Motorola Solutions inquiries regarding users/groups/agency mapping to CommandCentral Solution functionality.

Completion Criteria

 CommandCentral Solution provisioning is complete upon Motorola Solutions completing provisioning activities and acceptance by MDPD.

B.2.6 CommandCentral Online Training

CommandCentral training shall be made available to via Motorola Solutions Software Enterprise Learning Management System (LMS). This subscription service provides you with continual access to our library of online learning content and allows your users the benefit of learning at times convenient to them. Content is added and updated on a regular basis to keep information current. All Motorola Solutions tasks are completed remotely and enable MDPD to engage in training when convenient to the user.

LMS Administrators are able to add/modify users, run reports, and add/modify groups within the panorama.

Motorola Solutions Responsibilities

- Initial setup of Panorama and addition of administrators.
- Provide instruction to Miami-Dade LMS Administrators on:
 - Adding and maintaining users.
 - Adding and maintaining Groups.
 - Assign courses and Learning Paths.
 - Running reports.

MDPD Responsibilities

- Go to https://learningservices.Motorola Solutionssolutions.com and request access if you do not already have it.
- Complete LMS Administrator training.
- Advise users of the availability of the LMS.
- Add/modify users, run reports and add/modify groups.

Completion Criteria

- Work is considered complete upon conclusion of Motorola Solutions-provided LMS Administrator instruction and acceptance by MDPD.
- Panorama A panorama is an individual instance of the Learning Management System that
 provides autonomy to the agency utilizing.
- Groups A more granular segmentation of the LMS that are generally used to separate learners of like function (i.e. dispatchers, call takers, patrol, firefighter). These may also be referred to as clients within the LMS.
- Learning Path A collection of courses that follow a logical order, may or may not enforce linear progress.

B.2.7 Product Validation

The system is exercised throughout the delivery of the project by both Motorola Solutions and MDPD via provisioning and training activities. Prior to user operation, Motorola Solutions shall perform prescribed system validations in accordance with a Product Validation Plan.

B.2.7.1 Functional Demonstration

The objective of functional demonstration is to validate MDPD access to the CommandCentral features and functions and system integration via configured interfaces (as applicable).

Motorola Solutions Responsibilities

- Update functional demonstration script.
- Provide script to MDPD for review and acknowledgement.
- Conduct functional demonstration.
- Correct any configuration issues impacting access to cloud based features; i.e. map display, location updates, video display and/or interface and integrations.
- Create a summary report documenting the activities of the functional demonstration and any corrective actions taken by MDPD or Motorola Solutions during the demonstration.
- Provide MDPD instruction on using the Customer Feedback Tool for feature/enhancement requests.

MDPD Responsibilities

- Review and agree to the scope of the demonstration script.
- Witness the functional demonstration and acknowledge its completion.
- Resolve any provisioning impacting the functional demonstration.
- Provide Motorola Solutions with any requests for feature enhancements.

Completion Criteria

Conclusion of the functional demonstration and acceptance by MDPD.

B.2.8 Completion Milestone

Following the conclusion of delivery of the functional demonstration and acceptance by MDPD, the project is considered complete and the Software System completion milestone will be recognized.

B.2.9 Transition to Support and Customer Success

Following the completion of the activation of CommandCentral components and acceptance by MDPD, implementation activities are complete. The transition to the Motorola Solutions' support organization completes the implementation activities.

Customer Success is the main point of contact as MDPD integrate this solution into MDPD's business processes. Motorola Solutions' team will work with MDPD to ensure Video-as-a-Service meets MDPD's expectations and that the solution satisfies MDPD's goals and objectives. Contact Customer Success at CommandCentralCS@motorolasolutions.com.

The Customer Support team will be the point of contact for technical support concerns you might have and can be reached either by phone at 1-800-MSI-HELP (option x4, x5, x1) or by email at [support-commandcentral@motorolasolutions.com].

Motorola Solutions Responsibilities

- Provide MDPD with Motorola Solutions support engagement process and contact information.
- Gather contact information for MDPD users authorized to engage Motorola Solutions support.

MDPD Responsibilities

- Provide Motorola Solutions with specific contact information for those users authorized to engage Motorola Solutions' support.
- Engage the Motorola Solutions support organization as needed.

Completion Criteria

Conclusion of the handover to support, acceptance by MDPD and the implementation project is complete.

Appendix C.

DISPATCH CONSOLES

C.1 Dispatch Console Configuration for Miami-Dade Police Department

The Motorola Solutions' dispatch console shall interface seamlessly with Miami-Dade Police Department's ASTRO® 25 system. This solution offers MDPD 4 dispatch positions. Table C-1 below titled "Dispatch Locations" outlines the number of consoles and their location.

Table C-1: Dispatch Locations

Number of Operator Positions	Location Name
2	LightSpeed Primary Dispatch
2	5680 Backup Dispatch

C.2 Protecting Consoles and Communications

The dispatch consoles shall enable end-to-end encryption from the dispatcher to the ASTRO 25 network, so that Miami-Dade Police Department's communications will not be undermined by unencrypted transmissions. Each dispatcher shall be able to fully participate in secure communications utilizing encryption that does not permit information to be heard by unauthorized individuals.

C.3 Incorporating Console Configuration and Management

The console system shall be configured and managed by the same configuration manager, fault manager, and performance reporting applications as the radio system. MDPD shall be able to define exactly which resources are available and how they are presented to the dispatcher. This provides MDPD with a single point for configuring and managing the entire ASTRO 25 system. Changes are automatically distributed throughout the system.

C.4 Dispatch Console Solution Components

C.4.1 MCC 7500E Console Operator Position

The dispatch position supports commercially available accessories, including a USB microphone, USB headset, and USB footswitch, as shown in Figure titled "MCC 7500E Dispatch Position." The following list describes the components included in the configuration.

THE MCC 7500E DISPATCH CONSOLE



Figure C-1: MCC 7500E Dispatch Position supports multiple accessories.

Includes:

- Audio Interface Module (AIM)
- Personal Computer (PC)
- Computer Display with Touchscreen
- Desktop
- Speakers
- Headset Jack
- Headset
- Purpose-built
- USB Microphone
- Footswitch
- Telephone Headset Interface Port

Appendix D.

VIRTUAL PARTNER ENABLEMENT

D.1 Virtual Partner Solution

Motorola Solutions shall provide Virtual Partner LTE Enablement (ViQi) which includes the software and services required to install and configure Viqi for use via the APX NEXT LTE connection. Virtual Partner is a cloud-based service that provides vital public safety information via voice. With a single button press and simple audio prompt, public safety personnel can use natural language to run a license plate or driver's license, and search for vehicles with matching vehicle identification numbers. Virtual Partner leverages artificial intelligence capabilities to interpret voice queries and deliver query results in an audible format. This empowers officers to submit queries using their radio subscriber. Reducing the need for a vehicle mounted computer and the risk of losing situational awareness while typing a manual query. The automated nature of the solution will allow MDPD officers to query a driver's license, license plate and a vehicle identification number (VIN) to obtain critical information faster than relaying the query to dispatchers. Motorola may enhanced ViQi to support alerting dispatchers of a hot hit that results from a ViQi query and such enhancement shall be provided to MDPD upon availability. Virtual Partner uses commercial LTE to communicate between APX NEXT subscriber radios and the hosted Virtual Partner service.

D.2 Statement of Work

D.2.1 Overview

The Statement of Work defines the principal activities and responsibilities of Motorola Solutions and MDPD during CommandCentral Virtual Partner deployment. The deployment process is a collaborative effort between MDPD system administrators, subject matter experts, and the Motorola Solutions deployment team. Deployments involve the following steps:

Step	Description
Project Initiation	Formal project kickoff and planning sessions
Agency, User, and Device Setup	Configuration of agency, users, and devices on cloud platform
State Switch Authorization	Virtual Partner connection to State Message Switch approved
Query Configuration	Install and configure on premise query software
Demonstration	Demonstrate Virtual Partner operation

Step	Description
Training	Virtual Partner operational and administrator training
Project Finalization	Delivery of as-built documentation and hand over to support

These project steps are logical groupings of related activities required to complete the project. Each step includes tasks and deliverables both Motorola Solutions and MDPD are responsible to complete. These are described in detail within the Statement of Work.

Motorola's project manager will use the Statement of Work to guide the deployment process and coordinate the activities of all Motorola Solutions resources and teams. The project manager will also work closely with MDPD's project manager to clearly communicate the required deployment activities and schedule tasks involving MDPD resources.

D.2.2 Project Roles

Motorola Solutions Project Manager

The Motorola Solutions Project Manager is the single point of contact with the MDPD Project Manager and is responsible for scheduling and coordinating Motorola Solutions resources and task completion. The Motorola Solutions Project Manager assures the delivery of contracted components in accordance with the project schedule and is responsible for the transition of MDPD to Motorola Solutions Customer Support post deployment.

Motorola Solutions Solutions Architect

Deploys and configures the on premise query software.

Motorola Solutions Support

Motorola Solutions Support organization provides varying levels of service up to and including technical support services. Following project finalization, ongoing service will be provided by Motorola Solutions Support in accordance with the MDPD support plan.

Note: Any Motorola employees who have access to or touch the system shall comply with the MDPD Security Policy.

MDPD Project Manager

The MDPD Project Manager is responsible for scheduling and coordinating MDPD resources and task completion. The MDPD Project Manager works collaboratively with the Motorola Solutions PM to assure completion of MDPD tasks in accordance with the project schedule.

MDPD System Administrator(s)

Responsible for Virtual Partner User and radio subscriber provisioning via CommandCentral Admin and ongoing coordination with Motorola Solutions System Support.

MDPD Network Administrator

Responsible for network and firewall configuration. Works with Motorola Solution Architect to provide and verify network connectivity between the on-prem systems, the Command Central cloud platform, and the State message switch.

D.2.3 Project Documentation

The following documents are delivered during the deployment process. Some are standard product documentation and others are project specific and are produced during the project.

Product Documentation

CommandCentral System Administration Guide. The Administration Guide includes information about the CommandCentral Admin tool, User provisioning, and other system administration tasks.

CommandCentral Network Connectivity Guide. The Network Guide includes information about the security and network connectivity between the MDPD's on-premises system and the CommandCentral cloud platform.

Project Documentation

Virtual Partner Configuration Document. Describes the Virtual Partner configuration including network diagrams, ConnectCIC configuration, query configuration, and cloud provisioning parameters. It is created during the project, used to configure and validate application and network configurations, and finalized to serve as project as-built documentation. Provided to both MDPD and the Motorola Solutions Support Team.

Operational Demonstration Script. The Operational Demonstration Script provides a MDPD specific procedure for validating system configuration and operation. It references MDPD specifics detailed in the Configuration Document.

D.2.4 Initiation

Project Initiation

Project initiation occurs after procurement of Virtual Partner and notice to proceed is received. During this phase the Motorola Solutions and MDPD project managers are assigned, assemble their teams, and establish a working relationship. The managers jointly review the project plan, deliverables, and schedule. Each manager coordinates preparatory tasks that serve as a foundation for the specific deployment activities.

Motorola Solutions Responsibilities

- 1. Schedule a kick-off call between MDPD and Motorola Solutions project managers
- 2. Establish communications plan
- 3. Review project work plan, schedule, and resources
- 4. Provide standard product documentation
 - a. CommandCentral System Administration Guide
 - b. CommandCentral Network Connectivity Guide
 - c. Virtual Partner User Guide

MDPD Responsibilities

- Miami-Dade project manager coordinates with agency(s) and identifies the subject matter experts, system administrators, and network administrators that will participate in the project and complete MDPD tasks
- 2. Review the Solution Description and prerequisites with MDPD project team. Assure that all required components are in place or initiate procurement

3. Schedule agency personnel time to participate in the Virtual Partner deployment process.

Completion Criteria

Complete when Motorola Solutions and MDPD project teams are identified and deployment tasks are assigned and scheduled.

D.2.5 Data Collection & Planning Session

Motorola Solutions shall conduct a remote working session with the MDPD System Administrators and agency user representatives to provide an overview of Virtual Partner operation and collect provisioning data. This activity is performed via teleconference.

Motorola Solutions Responsibilities

- 1. Conduct a remote, one to two hour, planning session with representatives of each agency using Virtual Partner.
- 2. Review Virtual Partner functionality and configuration options.
- 3. Document each agency's configuration, admin users, initial subscribers and users.

MDPD Responsibilities

- 1. Schedule planning session with representatives of each agency.
- 2. Provide Administrator, User, Subscriber, and Group information for provisioning.

Completion Criteria

Planning sessions completed.

D.2.6 Agency, User and Device Setup

The MDPD Agency, Virtual Partner Users, and Radio Subscribers shall be provisioned within the Command Central Cloud Platform using the Command Central Admin tool. The provisioning process allows the Agency to define the specific capabilities and permissions of each user.

ViQi Virtual Partner stores full CJIS Query and Response text in Command Central Audit (CCAudit). The audit service allows system administrators to review logs of user activity and analyze violations manually. The audit logs include both the queries submitted by users and all responses received from the state CJIS Switch.

The query audit logs are viewable and searchable through Command Central Audit Viewer. Users may access the audit logs pertinent to their agency using CCAudit Viewer provided their account has audit log access enabled. The agency system administrator can see and provision who will have access to the Audit Viewer. It is the agency's responsibility to ensure that CC Audit users have passed CJIS personnel security screening.

Motorola Solutions Responsibilities

- 1. Provide a single two hour remote CommandCentral Admin training session for the MDPD System Administrator(s)
- Provide up to two hours of remote telephone support over a 10 day period following the CommandCentral Admin training for the System Administrator during the Agency and User Setup process

- Use the CommandCentral Admin tool to establish the MDPD and MDPD's agency(s)
 within the CommandCentral cloud platform. This activity will be initiated during the order
 process
- 4. Verify MDPD's access to the CommandCentral App online training module

MDPD Responsibilities

- 1. Identify System Administrator(s)
- 2. Assure all System Administrators complete the CommandCentral Admin training
- 3. Use the CommandCentral Admin tool to:
 - a. Setup Command Central administration and user passwords
 - b. Setup Command Central administration and user passwords
 - c. Provision agency's Virtual Partner Users (officers)
 - d. Provision queries and permissions per User
 - e. Provision agency's radio subscriber devices
 - f. Provision User to radio subscriber

Completion Criteria

All agencies, users and devices are provisioned and accepted by MDPD.

D.2.7 CJIS Security Audit / Connection Authorization

State and MDPD approval is needed prior to connecting the Virtual Partner solution to the State Switch or independently or via PremierOne CAD's existing connection.

Motorola Solutions Responsibilities

- 1. Provide Security Amendment that describes the Virtual Partner solution in terms of a data flow diagram that documents the protocols, ports, and encryption used between the State Message Switch connection and the APX NEXT subscriber.
- 2. Coordinate with the MDPD IT department and the State to identify any additional documentation required for State approval and update the Security Amendment as required.

MDPD Responsibilities

- 1. Define the State and Agency approval process required for the Virtual Partner beta project.
- 2. Identify the state personnel required to audit the system security and approve the solution for connection to State Message Switch.
- 3. Submit a formal request to the State requesting authorization to connect the Virtual Partner solution to the State Message Switch.
- 4. Facilitate the approval process by reviewing Motorola's security documentation, submitting to state approval process, and coordinating with state to assure completion of the process.

Completion Criteria

CJIS connection available and MDPD and State approval to connect Virtual Partner.

D.2.8 Query Configuration

Virtual Partner uses an on premise software package to submit queries generated via radio subscribers. MDPD's deployment Shall be configured to support queries to the State or

County Message Switch. The on premise query components and configuration are common across all Virtual Partner deployments, however, the deployment process and required tasks varies depending on the existence of previously deployed software components. MDPDs with existing PremierOne / ConnectCIC solutions may leverage the existing software and message switch connection.

Motorola Solutions Responsibilities

- 1. Systems with PremierOne CAD:
 - a. Install a new ConnectCIC instance on a MDPD supplied VM within MDPD's secure environment.
 - b. Configure ConnectCIC to connect to the state switch via the existing PremierOne ConnectCICs. This will use the existing CJIS connection, ORI, and mnemonic. PremierOne is typically deployed with multiple ConnectCIC instances for redundancy. The new ConnectCIC will connect to the State switch via the active PremierOne ConnectCIC instance.
 - c. Establish a connection from ConnectCIC to the Azure CommonQuery Service via a Miami-Dade firewall.
 - d. Verify that Virtual Partner queries may be sent to the switch via ConnectCIC and that responses are received.
- 2. Systems without PremierOne CAD: Install the CommSys ConnectCIC™ CJIS Integration Solution. Use new or existing remote access capability for remote configuration and support.
 - a. Install CommSys ConnectCIC on a MDPD provided VM.
 - b. Provision ConnectCIC with the agency's ORI and mnemonic.
 - c. Establish a connection from ConnectCIC to the applicable State or County Message Switch.
 - d. Establish a connection from ConnectCIC to the Azure CommonQuery Service via a MDPD firewall.
 - e. Verify that Virtual Partner queries may be sent to the switch via ConnectCIC and that responses are received.

MDPD Responsibilities

- 1. Support deployment of the CommSys ConnectClC™ CJIS Integration Solution. Note that this activity is not required for deployment with an existing PremierOne CAD implementation.
 - a. Provide a suitable VM for ConnectCIC.
 - b. Provide agency ORI and other required credentials required for connection to State or County Message Switch.
 - c. Provide and configure a Firewall that allows connection from ConnectCIC to the applicable State or County Message Switch.
 - d. Provide and configure a Firewall that allows connection from ConnectCIC to the Virtual Partner solution hosted in Microsoft Azure.
 - e. Provide agency personnel for query testing as required by State query system and NLETS/NCIC user access rules.
- 2. Provide remote access capability that allows Motorola Solutions to monitor and maintain ConnectClC. This may be the existing PremierOne or Flex CAD remote access capability or a new connection specifically for ConnectClC.

Completion Criteria

Query configuration is complete when all query components are installed and configured to support Virtual Partner operation and accepted by MDPD.

D.2.9 Subscriber Provisioning

APX NEXT subscribers shall be provisioned on MDPD's ASTRO system prior to operation. APX NEXT subscribers associated with Virtual Partner subscriptions must be programmed to assign a button to activate Virtual Partner.

Motorola Solutions Responsibilities

1. Provide Virtual Partner programming guidance.

MDPD Responsibilities

- 1. Assure that all APX NEXT subscriber firmware is updated to Release 20 or later.
- 2. Assure that APX NEXT subscribers have been previously provisioned on the ASTRO system.
- 3. Assure that all APX NEXT subscribers have a current SmartProgramming application service subscription.
- 4. Assure that APX NEXT subscribers' code plug configurations have been provisioned in RadioCentral and that the APX NEXT Subscribers have been programmed.
- 5. Download and install the latest version of the RadioCentral programming client.
- 6. Provision balance of APX NEXT subscribers for Virtual Partner using the RadioCentral client.

Completion Criteria

All APX subscribers covered by a Virtual Partner feature subscription are provisioned on the ASTRO system and programmed to activate Virtual Partner and accepted by MDPD.

D.2.10 Operational Demonstration

After the solution deployment, Motorola Solutions shall provide an operational demonstration to the MDPD project manager, system administrator, and end user representatives.

Motorola Solutions Responsibilities

- 1. Demonstrate queries via ASTRO subscriber radio.
- 2. Review audit logs of the test queries.

MDPD Responsibilities

1. Participate in Virtual Partner demonstration.

Completion Criteria

Complete after successful demonstration of Virtual Partner operation and acceptance by MDPD.

D.2.11 Virtual Partner Training

Virtual Partner Administrator and User training classes are available online. Access to online Virtual Partner training shall be provided by Motorola Solutions Software Enterprise Learning Experience Portal (LXP). This subscription service provides continual access to Motorola's library of online learning content and allows users the benefit of learning at times convenient to them. Content is added and updated on a regular basis to keep information current. Online training enables Users to participate in training at their convenience.

MDPD's LMS Administrators use Panorama, a MDPD specific instance of the Learning Management System, to add/modify users, run reports, and add/modify groups, and define Learning Paths. Groups are a more granular segmentation of the LXPthat are generally utilized to separate learners by function (i.e. dispatchers, call takers, patrol, firefighter). A Learning Path is a collection of courses that follow a logical order, and may or may not enforce linear progress.

Motorola Solutions Responsibilities

- 1. Setup Panorama and add MDPD specified LXP administrators.
- 2. Provide administrators access to learning services.motorolasolutions.com.

MDPD Responsibilities

- Provide Motorola Solutions with names (first and last) and emails of MDPD LXP administrators.
- 2. Assure all System Administrators complete LXP Administrator training. The training covers:
 - a. Adding and maintaining Users
 - b. Adding and maintaining Groups
 - c. Assigning courses and Learning Paths
 - d. Running reports.
- 3. Advise users of the availability of the LXP and Virtual Partner training classes.
- 4. Add/modify users, run reports and add/modify groups

Completion Criteria

Work is considered complete upon conclusion of Motorola Solutions provided LXP Administrator instruction and acceptance by MDPD.

D.2.12 Project Finalization and Handover to Support

Finalization is the process of confirming that all project activities have been completed and project documentation has been delivered. During this activity Motorola Solutions shall transition responsibility for Virtual Partner from the Project Manager to the Motorola Solutions support team. MDPD's Project Manager shall transition support to the System Administrator(s).

Motorola Solutions Responsibilities

- 1. Verify project deliverables have been received by the MDPD Project Manager
- 2. Confirm with MDPD that Virtual Partner is available for MDPD's beneficial use.
- 3. Provide the Virtual Partner Configuration Document.
- 4. Conduct a teleconference introducing MDPD to Motorola Solutions Support organization. The purpose of the teleconference is to review the Virtual Partner support process and obtain contact information with MDPD's assigned system administrator(s) and the Motorola Solutions Support Team
- 5. Provide on-going support in accordance with the terms and conditions of the support agreement

MDPD Responsibilities

- 1. Provide confirmation of receipt of project deliverables with the Motorola Solutions Project Manager
- 2. Participate in the support hand over teleconference. Assure that System Administrator(s) understand the support process and have the correct contact information.

Completion Criteria

Project finalization is complete upon delivery of the final Virtual Partner Configuration Document, acceptance by MDPDand the conclusion of the teleconference with Motorola Solutions Support organization.

Appendix E.

PROJECT ADMINISTRATION & SCHEDULE

E.1 Project Administration

E.1.1 Project Status Meetings

Motorola Solutions Responsibilities:

- Motorola Solutions Project Manager, or designee, shall attend all project status meetings with MDPD, as determined during the CDR.
- Record the meeting minutes and supply the report to attendees within 48-hours.
- The agenda will include the following:
 - Overall project status compared to the Project Schedule.
 - Product or service-related issues that may affect the Project Schedule.
 - Status of the action items and the responsibilities associated with them, in accordance with the Project Schedule.
 - Any risks or miscellaneous concerns of identified by either MDPD or Motorola Solutions.

MDPD Responsibilities:

- Attend meetings.
- Respond to issues in a timely manner.

Completion Criteria:

Completion of the meetings and submission of meeting minutes.

E.1.2 Preliminary Project Schedule

The project schedule details the projected timeline for completing the required tasks to successfully implement the capital improvements as noted above. During the Contract Design Review meeting following contract award, Motorola Solutions' Project Manager shall present a baseline project schedule to MDPD based upon knowledge and timeline goals learned during the Kickoff Meeting with MDPD. The baseline schedule will be updated regularly during project implementation and will be provided to MDPD's Project Manager in an agreed-upon format. Motorola Solutions and MDPD will work together to identify all project responsibilities for the successful completion of the project.

E.1.3 Progress Milestone Submittal

Motorola Solutions Responsibilities:

Submit progress (non-payment) milestone completion certificate/documentation.

MDPD Responsibilities:

 Approve milestone, which will signify confirmation of completion of the work associated with the scheduled task.

Completion Criteria:

MDPD approval of the Milestone Completion document(s).

E.1.4 Change Order Process

- Either Party may request changes within the general scope of this Agreement subject to the
 approval of the other party. If a requested change causes an increase or decrease in the
 cost, change in system configuration or adds time to the project's timeline required to
 perform this Agreement, the Parties will negotiate an equitable adjustment of the Contract
 Price, Performance Schedule, or both, and will reduce the negotiated adjustment to a written
 change order. Neither Party is obligated to perform requested changes unless both Parties
 duly approve and execute the written change order.
- If MDPD reduces the number of vehicle radio installation required via Change Order, then Motorola shall provide a credit of \$870 per vehicle installation not performed, and a credit of 40% of MSRP for any radio returned that is new and in the original box packaging.

E.1.5 Project Gant Chart

The below Project Gant Chart is for reference-only purposes and subject to change based on product shipment lead-times. The project schedule will be updated to reflect more accurate timing during the Customer Design Review (CDR) Milestone. Motorola shall deliver subscriber equipment per Section 9.3.

Appendix F.

APX NEXT DEVICE MANAGEMENT SERVICES ADVANCED STATEMENT OF WORK

F.1 Overview

Motorola Solutions shall provide MDPD with Device Management Services ("DMS") which is a tiered offering that efficiently maintains MDPD's device fleet while helping to keep devices up-to-date and fully operational in the field.

DMS Advanced services allow MDPD to more efficiently manage their devices with enhanced tools and capabilities.

As it relates to this Statement of Work (SOW), at the discretion of MDPD, Customer Responsibilities can be fulfilled by assigned Motorola Solutions technicians.

F.2 Hardware Repair

Hardware Repair provides repair coverage for internal and external device components that do not work in accordance with published specifications. Repair services are performed at a Motorola Solutions-operated or supervised facility. The device will be repaired to bring it to compliance with its specifications, as published by Motorola Solutions at the time of delivery of the original device.

For malfunctioning devices that must be replaced, Motorola Solutions shall attempt to read the codeplugs from those devices. If successful, Motorola Solutions shall load the codeplug to any replacement devices. If not, Motorola Solutions shall load a factory codeplug, and MDPD will need to load the previous codeplug.

Motorola Solutions will load factory available firmware to any replacement devices, which may not match MDPD's firmware version but shall be the most current firmware commercially available for such devices.

F.2.1 Motorola Solutions Responsibilities

- Repair or replace malfunctioning device. Motorola Solutions shall determine whether a
 malfunctioning device shall be repaired or replaced.
- Complete repair or replacement with a turnaround time of five business days in-house, provided the device is delivered to the repair center by 9:00 a.m. (local repair center time). Turnaround time represents the time a product spends in the repair process, and does not include time in transit to and from MDPD's site. Business days do not include US holidays or weekends.
- If applicable, apply periodically-released device updates, in accordance with an Engineering Change Notice.
- Provide two-way air shipping when a supported Motorola Solutions electronic system, such as MyView Portal, is used to initiate a repair. A shipping label will be generated via the electronic system.

F.2.2 MDPD Responsibilities

- For non-contiguous renewals, MDPD must provide a complete list, preferably in electronic format, of all hardware serial numbers to be covered under the Agreement to Motorola Solutions.
- Initiate device repairs, as needed.
 - When initiating a repair via a supported Motorola Solutions electronic system, label each package correctly with the shipping label and Return Material Authorization ("RMA") number generated by the electronic system.
 - When initiating a repair via paper Return Material Form ("RMF"), the RMF must be completed for each device, included in the package with the device, and shipped to the Motorola Solutions depot specified on the RMF.
- Remove any data or other information from the device that MDPD wishes to destroy or retain prior to sending the device for repair.
- If a malfunctioning device must be replaced and MDPD has loaded information for that device to Motorola Solutions' cloud environment, MDPD will need to remove the information for the malfunctioning device and add information for the replacement device to the applicable cloud environment.

F.2.3 Limitations and Exclusions

MDPD will incur additional charges at the prevailing rates (less discounts applicable to County purchases) for any activities that are not included or are specifically excluded from this service scope, as described below. In the event such repairs are covered by Accidental Damage as set forth below, such repairs shall be covered by those provisions with no additional cost to the County. Motorola Solutions will notify MDPD and provide a quotation of any incremental charges related to such exclusions prior to completing the repair and said repair will be subject to MDPD's acceptance of the quotation.

- Replacement of consumable parts or accessories, as defined by product, including but not limited to batteries, cables, and carrying cases.
- Repair of problems caused by:
 - Natural or manmade disasters, including but not limited to internal or external damage resulting from fire, theft, and floods.

- Third-party software, accessories, or peripherals not approved in writing by Motorola Solutions for use with the device.
- Using the device outside of the product's operational and environmental specifications, including improper handling, carelessness, or reckless use.
- Unauthorized alterations or attempted repair, or repair by a third party.
- Non-remedial work, including but not limited to administration and operator procedures, reprogramming, and operator or user training.
- Problem determination and/or work performed to repair or resolve issues with non-covered products. For example, any hardware or software products not specifically listed on the service order form are excluded from service.
- File backup or restoration.
- Completion and test of incomplete application programming or system integration if not performed by Motorola Solutions and specifically listed as covered.
- Accidental damage, chemical or liquid damage, or other damage caused outside of normal device operating specifications, except if optional Accidental Damage Coverage was purchased.
- Cosmetic imperfections that do not affect the functionality of the device.
- Software support for unauthorized modifications or other misuse of the device software is not covered.
- Motorola Solutions is not obligated to provide support for any device that has been subject to the following:
 - Repaired, tampered with, altered or modified (including the unauthorized installation of any software) — except by Motorola Solutions authorized service personnel.
 - Subjected to unusual physical or electrical stress, abuse, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable product specification.
 - If MDPD fails to comply with the obligations contained in the Agreement, the applicable software license agreement, and Motorola Solutions terms and conditions of service.

F.2.4 Accidental Damage

Motorola Solutions shall provide Accidental Damage as an add on to Hardware Repair which shall provide repair coverage for internal and external device components damaged due to accidents or that do not work in accordance with published specifications. Repair services are performed at a Motorola Solutions-operated or supervised facility.

Accidental Damage coverage includes all Hardware Repair services, and expands coverage to include Accidental Damage. Examples of items included under Accidental Damage Coverage are:

- Electrical repair for components that are not working in accordance with published specifications
- Electrical repair for failures caused by accidental water damage.
- Electrical repair for accidental internal damage.
- Replacement of accidentally cracked or broken housings.
- Replacement of accidentally cracked or broken displays.
- Replacement of accidentally cracked or broken or missing keypads/buttons.

For malfunctioning devices that must be replaced, Motorola Solutions shall attempt to read the codeplugs from those devices. If successful, Motorola Solutions shall load the codeplug to any

replacement devices. If not, Motorola Solutions will load a factory codeplug, and MDPD will need to load the previous codeplug.

Motorola Solutions will load factory available firmware to any replacement devices, which may not match MDPD's firmware version but shall be the current commercially available version of the firmware. MDPD may need to downgrade the firmware on the replacement device.

F.2.4.1 Added Motorola Solutions Responsibilities for Accidental Damage

Repair or replace accidentally damaged device, as determined by Motorola Solutions.

F.2.4.2 Limitations and Exclusions

Accidental Damage limits or excludes the following:

- There is a limit of one device repair per device/per contract year with Accidental Damage coverage. This exclusion does not apply to repairs to malfunctioning components. Motorola Solutions will repair malfunctioning components covered by the standard Hardware Repair service as needed.
- Where ongoing "accidental damage" is deemed by Motorola Solutions to be excessive, systemic or the result of device mishandling, MDPD may be subject to an additional charge. Should the accidental damage continue unabated, MDPD will incur repair charges at Motorola Solutions' discretion and prevailing charges for devices deemed by Motorola Solutions to have been damaged through improper handling, carelessness, or reckless use.
- Accidental Damage is quoted on a per-unit basis, is prepaid, non-cancellable, and nonrefundable for the purchased service term.

F.3 Device Technical Support

Motorola Solutions shall provide Device Technical Support service which includes telephone consultation for device and accessory issues. Support is delivered through the Motorola Solutions Centralized Managed Support Operations ("CMSO") organization by a staff of technical support specialists.

For Device Technical Support, Motorola Solutions shall respond to calls within two (2) hours during the support days. Support hours are 7 a.m. to 7 p.m. CST Monday through Friday, excluding US holidays. In addition, MDPD may contact the Call Management Center (800-MSI-HELP) at any time (24 hours a day, seven days a week) and a Motorola Solutions representative will log a technical request in Motorola Solutions Case Management System on MDPD's behalf.

F.3.1 Motorola Solutions Responsibilities

- Provide technical support for devices, assessing and troubleshooting reported issues.
- Receive and log MDPD support requests, and assign a technical representative to respond to a MDPD incident per the defined timeframes.

F.3.2 MDPD Responsibilities

- Use the provided methods to contact Motorola Solutions technical support.
- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDPD issues.

 Provide contact information for field service technicians in the event that Motorola Solutions has to follow up.

F.3.3 Limitations and Exclusions

 Device support does not include Land Mobile Radio ("LMR") network, Wi-Fi, and LTE network troubleshooting.

F.4 Software Maintenance

Motorola Solutions is continually developing new features and functionality for our portfolio of public-safety-grade radios. Motorola Solutions shall provide MDPD with software maintenance to provide these firmware releases to future-proof MDPD's communications investment.

F.4.1 Motorola Solutions Responsibilities

- Test all firmware releases to minimize software defects.
- Announce new firmware releases and post release notes in a timely manner via MyView Portal.
- Provide firmware updates via the RadioCentral cloud server. Motorola Solutions makes no guarantees as to the frequency or timing of firmware updates.
- Provide upgrade capability through RadioCentral.
- Provide programming and service tools and technical support through the firmware support window.
- Provide documentation via MyView Portal with each release detailing new features, bug fixes, and any known issues.

F.4.2 MDPD Responsibilities

- Periodically check MyView Portal for firmware update announcements.
- Keep the radio fleet updated with firmware versions within the support window.

F.5 RadioCentral Access

Motorola Solutions shall provide RadioCentral service which includes radio provisioning and programming capability with the convenience and security delivered by cloud hosting. Device information will be loaded into the Motorola Solutions-hosted database directly from the factory, and MDPD can use their own computer equipment to configure codeplugs before the device arrives. Software updates and device configuration changes can be set up from anywhere with an Internet connection and pushed out through Wi-Fi or LTE (SmartProgramming) to keep devices up to date and officers in the field.

DMS Advanced provides RadioCentral's batching capabilities for efficient programming and easy fleet management.

Outside of pre-announced maintenance periods, RadioCentral shall be available on a best effort 24/7 basis. Broadband network and cloud performance may reduce availability.

F.5.1 Motorola Solutions Responsibilities

- Host the RadioCentral server software in a secure cloud environment.
- Keep the RadioCentral server software up-to-date with all software and security patches.
- Keep the RadioCentral database backed up and restore backups, as needed.
- Populate the RadioCentral database with device serial numbers, model information, feature information, and default codeplugs.
- Provide access information (login information, IP addresses, and port numbers as needed), as well as current RadioCentral Client software downloads via MyView Portal.
- Ensure that RadioCentral is accessible to Wi-Fi and LTE connected devices.
- Provide a link between RadioCentral and MyView Portal.
- Monitor the status of the Radio Central cloud platform.
- Notify MDPD via Remedy of any scheduled maintenance or other planned outages.
- Notify MDPD through Remedy and MyView Portal of any unplanned outages.
- Provide authorized administrator access to RadioCentral via a third-party identity management system.

F.5.2 MDPD Responsibilities

- Provide contact information, including email addresses, for the Radio Central administrator.
- Provide contact information, including email addresses, for the radio provisioning agency or agencies.
- Administer provisioning agency RadioCentral accounts.
- Provide a Wi-Fi network with Internet access for device programming.
- Provide and maintain the required RadioCentral client computer(s).
- Provide internet access for the RadioCentral client computer.
- Maintain the configuration database.
- · Program devices using RadioCentral as needed.

F.5.3 Limitations and Exclusions

 RadioCentral programming is limited to LTE and Wi-Fi programming only. Over-the-air programming (via the LMR system) and Bluetooth programming are not supported.

F.6 RadioCentral Technical Support

For RadioCentral Technical Support, Motorola Solutions shall respond to calls within two (2) hours during the support days. Support hours are 7 a.m. to 7 p.m. CST Monday through Friday, excluding US holidays. In addition, MDPD may contact the Call Management Center (800-MSI-HELP) at any time (24 hours a day, seven days a week) and a Motorola Solutions representative will log a technical request in Motorola Solutions Case Management System on MDPD's behalf.

F.6.1 Motorola Solutions Responsibilities

- Monitor the status of the Radio Central cloud platform.
- Notify MDPD of any scheduled maintenance or planned outages.

 Provide technical support, security control, and service improvements related to RadioCentral. MDPD Data may be accessed by Motorola Solutions employees residing outside of MDPD's country for the sole purpose of providing such support.

F.6.2 MDPD Responsibilities

- Use the provided methods to contact Motorola Solutions technical support.
- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDPD issues.
- Provide contact information for on-site technicians in the event that Motorola Solutions has to follow up.

F.6.3 Limitations and Exclusions

- Initial fleetmap template creation or consultation required to assemble a fleetmap strategy is excluded.
- Motorola Solutions Technical Support will not accept radio programming assistance calls. Support is limited to the correction of defects with the RadioCentral programming tool.

F.7 MyView Portal Access

Motorola Solutions shall provide MyView Portal service which is a single location to track the status of subscriptions and service contracts, including start and end dates. MyView Portal displays the serial number, configuration, and firmware versions of all the APX NEXT devices in MDPD's fleet. This portal includes order, RMA, and technical support ticket status, as well as a consolidated download site for software and documentation.

MDPD can access fleet level reports, charts, and graphs that make it easy to spot fleet level trends and trends over time, improving the fleet management experience.

Outside of pre-announced maintenance periods, MyView Portal will be available on a best effort 24/7 basis. Motorola Solutions cannot guarantee the availability of Internet networks outside of our control.

F.7.1 Motorola Solutions Responsibilities

- Provide a web accessible, secure portal to view MDPD's data.
- Provide MDPD with login credentials for the site.
- Provide end-user training for the site.
- Provide technical support to answer end user questions between the hours of 8 a.m. to 5 p.m. CST Monday through Friday, excluding US holidays.
- Keep the site updated with the latest MDPD information.
- Establish and maintain connectivity between RadioCentral and MyView Portal.

F.7.2 MDPD Responsibilities

- Provide Motorola Solutions with contact information for administrative users.
- Administer user access.
- Provide Internet access for users to access the site.

- Attend available MyView Portal training.
- Protect login information against unauthorized use.
- Provide Motorola Solutions with updated equipment information, as needed.

F.8 Device Management Training

Motorola Solutions shall provide Device Management Training including detailed instruction for radio technicians on how to use the RadioCentral programming tool and how to manage a fleet of devices and administer access to RadioCentral through MyView portal. Upon completing the training, participants will be able to provision and program their APX NEXT radio fleet with confidence. Training includes access to an online overview course, as well as a two-day instructor led workshop.

The instructor-led workshop can be delivered in three different ways at the elections of MDPD:

- Virtually via web conferencing (1 seat).
- In person at a Motorola Solutions facility (1 seat).
- In person at MDPD's site (up to 12 seats).

F.8.1 Motorola Solutions Responsibilities

- Provide access to the online training class.
- Provide training material for class.
- Provide an instructor to lead the training workshop.
- If MDPD purchases training at MDPD's site, cover expenses for instructor to travel to MDPD's site. Motorola Solutions requires a minimum 30-day scheduling lead time for all MDPD on-site training. Miami-Dade site visits will be scheduled based on Motorola Solutions instructor availability.

F.8.2 MDPD Responsibilities

- Provide PC and Internet connection to take the online training class.
- If MDPD purchases training at a Motorola Solutions facility, cover expenses for students to travel to a Motorola Solutions facility.

F.9 **DMS Priority Levels**

For RadioCentral cloud-based elements, the following Priority Levels and response times apply. Initial Technical Response is defined as acknowledgement to MDPD that an incident has occurred.

Description	Initial Technical Response Time
Critical P1	
Product or Software defect which gives rise to:	1 hour
 Greater than 25% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. 	24/7
 Functional failures affecting more than 50% of devices. 	
High P2	
Product or Software defect which gives rise to:	4 hours
 Greater than 5% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. 	24/7
 Functional failures affecting more than 15% of devices. 	
Medium P3	
Product or Software defect which gives rise to:	24 hours
 Between 1-5% loss of functionality attributed to cloud resources, excluding local device and ASTRO 25 system connectivity issues. 	8 x 5 business hours
 Functional failures affecting LESS than 15% of devices. 	
Low P4	
Items include:	7 business days
 Documentation questions. 	
General informational questions.	
Other Investigations not marked as a higher priority level.	
For issues deemed to be Critical P1, High P2, and Medium P3, MDPD contact is made with Motorola Solutions personnel via telephone. Com	

contact is made with Motorola Solutions personnel via telephone. Communication via email, SMS or any web chat applications shall not be accepted as proof of notification given the delayed and non-guaranteed nature of the mode of communications. All emailed requests will be treated as Medium P3 incidents. The above Response Goals shall not be applicable during the occurrence of a Force Majeure event (e.g. acts of God, including earthquakes and floods).

Appendix G.

STATEMENT OF WORK FOR DEVICE MANAGEMENT SERVICES – ESSENTIAL

G.1 Overview

Motorola Solutions shall provide Device Management Services – Essential ("DMS Essential") for APX™ subscriber radios to MDPD with Subscriber Radio Technical Support and Hardware Repair services. DMS Essential is a per-unit, fixed-fee multi-year service to mitigate the likelihood of unexpected subscriber radio repair expenses.

As it relates to this Statement of Work (SOW), at the discretion of MDPD, MDPD Responsibilities can be fulfilled by assigned Motorola Solutions technicians.

G.2 Hardware Repair

G.2.1 Scope

Hardware Repair provides repair coverage for internal and external subscriber radio components that do not work in accordance with published specifications Repair services are performed at a Motorola Solutions-operated or supervised facility. The subscriber radio will be repaired to bring it to compliance with its specifications, as published by Motorola Solutions at the time of delivery of the original subscriber radio.

G.2.2 Motorola Solutions Responsibilities

- Repair or replace malfunctioning device, as determined by Motorola Solutions.
- Complete repair or replacement with a turnaround time of four business days in-house, provided the device is delivered to the repair center by 9:00 a.m. (local repair center time). Turnaround time represents the time a product spends in the repair process, and does not include time in transit to and from MDPD's site. Business days do not include US holidays or weekends.
- If applicable, apply periodically-released device updates, in accordance with an Engineering Change Notice.

 Provide two-way air shipping when a supported Motorola Solutions electronic system, such as MyView Portal, is used to initiate a repair. A shipping label will be generated via the electronic system.

G.2.3 Limitations and Exclusions

- Replacement of consumable parts or accessories, as defined by product, including batteries, cables, antennas, and carrying cases.
- In the case of mobile radios, repair of a single mobile control head that is required for normal operation of the subscriber radio is included, provided the control head was supplied at the original point of purchase of the mobile radio.
- Repair of problems caused by:
 - Internal or external damage resulting from natural or manmade disasters, including fire, theft, and floods.
 - Third-party software, accessories, or peripherals not approved in writing by Motorola Solutions for use with the device.
 - Using the device outside of the product's operational and environmental specifications, including improper handling, carelessness, or reckless use.
 - Unauthorized alterations, attempted repair, repair by a third party.
- Non-remedial work, including administration and operator procedures, reprogramming, and operator or user training.
- Problem determination and/or work performed to repair or resolve issues with non-covered products. For example, hardware or software products not specifically listed on the service order form are excluded from service.
- Cosmetic imperfections that do not affect the functionality of the device.
- Software support for unauthorized modifications or misuse of the device.
- File backup or restoration.
- Completion and test of incomplete application programming or system integration, if not performed by Motorola Solutions and covered by Motorola Solutions' services.
- Software Release updates.
- Accidental damage, chemical or liquid damage, or other damage caused outside of normal device operating specifications.
- Motorola Solutions is not obligated to provide support for any device that has been subject to the following:
 - Repaired, tampered with, altered, or modified (including the unauthorized installation of any software) — except by Motorola Solutions authorized service personnel.
 - Subjected to unusual physical or electrical stress, abuse, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable product specification.
 - If MDPD fails to comply with the obligations contained in the product purchase agreement and/or the applicable software license agreement and/or Motorola Solutions terms and conditions of service.
- DMS Essential is quoted on a per-unit basis, is prepaid, non-cancellable and non-refundable for the purchased service term.

G.2.4 MDPD Responsibilities

- For non-contiguous renewals and services purchased separately from APX subscriber radios, MDPD must provide a complete list, preferably in electronic format, of all hardware serial numbers to be covered under the Agreement to Motorola Solutions.
- Initiate subscriber radio repairs, as needed.
 - When initiating a repair via a supported Motorola Solutions electronic system, label each package correctly with the shipping label and Return Material Authorization ("RMA") number generated by the electronic system.
 - When initiating a repair via paper Return Material Form ("RMF"), the RMF must be completed for each device, included in the package with the device, and shipped to the Motorola Solutions depot specified on the RMF.
- Remove any data or other information from the device that MDPD wishes to destroy or retain prior to sending the device for repair.

G.3 Subscriber Radio Technical Support

G.3.1 Scope

Motorola Solutions shall provide Subscriber Radio Technical Support service including telephone consultation for subscriber radio and accessory issues. Support is delivered through the Motorola Solutions Centralized Managed Support Operations ("CMSO") organization by a staff of technical support specialists.

MDPD may contact the CMSO Call Management Center (800-MSI-HELP) at any time (24 hours a day / 7 days a week / 365 days per year) and a Motorola Solutions representative will log a technical request in the Case Management System on MDPD's behalf. In addition, MDPD may send email to portal.support@motorolasolutions.com to address any portal specific questions or concerns.

Motorola Solutions shall respond to MDPD cases within two hours of case creation, during support hours. Support hours are 7am to 7pm CST, Monday through Friday, excluding US holidays.

G.3.2 Motorola Solutions Responsibilities

- Provide technical support for subscriber radios, assessing and troubleshooting reported issues.
- Receive and log MDPD support requests, and assign a technical representative to respond to a MDPD Case per the defined timeframes.

G.3.3 Limitations and Exclusions

Land Mobile Radio ("LMR") network, Wi-Fi, and LTE network troubleshooting.

G.3.4 MDPD Responsibilities

Use the provided methods to contact Motorola Solutions technical support.

- Provide sufficient information to allow Motorola Solutions technical support agents to diagnose and resolve MDPD issues.
- Provide contact information for on-site technicians in the event that Motorola Solutions has to follow up.

G.4 MyView Portal Access

Motorola Solutions shall provide MyView Portal to MDPD to track order, RMA, and tech support ticket status, and serves as a consolidated download site for software and documentation.

G.4.1 Motorola Solutions Responsibilities

- Provide a web accessible, secure portal to view MDPD's data.
- Provide MyView Portal technical support to answer end user questions between the hours of 7am to 7pm CST Monday through Friday, excluding US holidays. In addition MDPD may send email to portal.support@motorolasolutions.com to address any portal specific questions or concerns.
- Keep the site updated with the latest MDPD information.
- Motorola Solutions' Customer Support Manager ("CSM") will assist MDPD in establishing a MyView Portal account.

G.4.2 MDPD Responsibilities

- Create a MyView Portal account if MDPD does not have an existing account.
- During the DMS Essential onboarding process, provide Motorola Solutions with contact information for administrative users.
- Administer user access.
- Provide Internet access for users to access the site.
- Protect login information against unauthorized use.
- · Work with Motorola Solutions' CSM to update information as needed.

Appendix H.

ASTRO 25 CONNECTIVITY SERVICE STATEMENT OF WORK

H.1 Overview

Motorola Solutions shall provide MDPD ASTRO® 25 Connectivity Service ("Service") as a backhaul connection that will link the ASTRO 25 core with other systems via ISSI as well as to support the connection to the SmartConnect Gateway.

Motorola Solutions shall provide and install equipment to support the Service, as described in Section H.3.5: ASTRO 25 Connectivity Service Sites and Equipment. In addition to providing the backhaul equipment and installation services, Motorola Solutions shall maintain and manage network elements required to provide the Service ("Managed Elements"). Motorola Solutions shall provide these services as needed to meet Service Availability Goals described in this SOW. Services in the SOW shall be delivered by Motorola Solutions and its partners.

H.2 Prerequisites

MDPD's on-premises ASTRO 25 Core includes the Service as part of the ASTRO 25 infrastructure service package. The ASTRO 25 Connectivity Service does not require separate service packages to support cloud-hosted Motorola Solutions software products like CirrusCentral Management. The ASTRO 25 Connectivity Service supports cloud-hosted SmartConnect service.

H.3 Product and Installation

H.3.1 Scope

Motorola Solutions shall provide and manage connectivity service between MDPD's ASTRO 25 core sites and the ASTRO 25 remote sites, cloud data centers, or hosted data centers noted in Section H.3.5: ASTRO 25 Connectivity Service Sites and Equipment.

H.3.2 Motorola Solutions Responsibilities

Motorola Solutions shall perform the following responsibilities to provide the ASTRO 25 Connectivity Service:

- Provide Managed Elements noted in Section H.3.5: ASTRO 25 Connectivity Service Sites
 and Equipment to establish connectivity between the MDPD provided equipment and wiring
 for sites noted in the same table. Such Managed Elements are included in the pricing for
 equipment and installation and is determined by Motorola Solutions.
- Perform a site survey prior to installation to assess that all the conditions for a proper site
 installation can be met, including, but not limited to the presence of network facilities
 necessary to provide the necessary connectivity. Motorola Solutions will note any variations
 of the site that would affect the hardware specifications or estimated labor involved for a
 standard installation. If the site survey indicates a non-standard installation (for example, the
 need for construction of "last mile" network facilities), then a mutually-agreed change order
 may be required.
- Install equipment supplied by Motorola Solutions. Installation period is within 45 business days from the time Motorola Solutions and MDPD execute the Agreement and related addendum or addenda.
- When available and approved by the MDPD in writing, Motorola Solutions may use MDPD-owned or MDPD-managed resources at no additional cost to Motorola Solutions. MDPD is solely responsible for maintenance and replacement of such resources and Motorola Solutions bears no responsibility for such resources. Motorola Solutions is further not responsible for any failures in such resources.
- Cooperate with MDPD to schedule the implementation of the ASTRO 25 Connectivity Service.
- Coordinate the activities of any Motorola Solutions subcontractors necessary to provide this service.
- Administer safe work procedures for installation.
- Assist the MDPD with operating and using the system during cutover.
- Motorola Solutions may, in its sole discretion, choose to modify the backhaul design. These changes will result in equivalent or improved capacity, cost, reliability, or availability.
- Upon Motorola Solutions request, the MDPD assigned Motorola Technicians will reboot the Managed Elements, provide the LED light statuses of the third-party provider Network Terminating Unit where applicable, verify equipment power, verify that cables are securely connected, and insert a loopback plug.
- The MDPD assigned Motorola Technicians will notify Motorola Solutions of any
 maintenance that may affect the operating status of the Managed Elements using a MDPD
 Maintenance Change Management Request via the Helpdesk or MyView Portal. Examples
 of maintenance activities include: powering down the site, a Motorola Solutions' Managed
 Element, or a third-party Network Terminating Unit, or resetting, recabling, or moving
 equipment components.

H.3.3 MDPD Responsibilities

None

H.3.4 Availability Goals

H.3.4.1 Service Level Availability Objectives

Motorola Solutions' ASTRO 25 Connectivity Service includes service level goals, calculated using a standard formula as described below. Availability calculations include only active network sites during the reporting period. Inactive mobile sites are not factored into availability calculations. Motorola Solutions will monitor service availability 24 hours a day, 7 days a week.

Availability Calculation

For the ASTRO 25 Connectivity Service, Motorola Solutions will provide the MDPD with availability metrics for active sites. ASTRO 25 Connectivity Service availability is the percentage of time that the circuit is available within a given calendar month.

Motorola Solutions will determine connection availability individually for each of MDPD's ASTRO 25 Connectivity Service connections. Availability is calculated monthly by computing the total number of Critical P1 priority incident outage minutes, as defined in Table H-6, in a calendar month and dividing that sum by the total number of minutes in a 30-day calendar month. Availability is calculated after a Critical P1 incident ticket is opened. If the site has backup connectivity, this is factored into the availability calculation. The formula for computing target availability goals is as follows:

Availability (%) = (1 - (Total minutes of site Hard Outage per month + Number of days in month x 24 hours/day x 60 minutes/hour) x 100.

Table H-5 provides Motorola Solutions' availability goals for specific site types. This table contains Motorola Solutions' Service Level Goals.

Site Type	Link Count	Handoff (NID to SRX)	Hardware (per link)	Wireless Backup (VRF)	Service Level Goals
ASTRO 25 Core (Primary)	2	1000 – LC Fiber	SRX1500	Yes (Critical Connect)	99.999%

Table H-5: ASTRO 25 Connectivity Service Level Goals

Outages

Availability is influenced by multiple factors, including network design, equipment, backhaul, and environmental factors. This section defines outage types, and how they factor into service availability calculations.

Hard Outage

A hard outage, classified as a Critical P1 incident, is a complete loss of Motorola Solutions-provided backhaul connectivity, during which MDPD cannot use the service and is prepared to release it for immediate testing. Motorola Solutions factors hard outages into availability calculations and would impact the service level goals.

Planned Outages

Planned outages are pauses in service delivery that Motorola Solutions can notify MDPD of in advance, with a scheduled time for when the outage will end. If a planned outage exceeds the

time that was predicted by 10% of the time scheduled, then the outage will be included as an agenda item for discussion at the next meeting between Motorola Solutions and MDPD. Motorola Solutions and MDPD will recategorize the outage during the meeting. Motorola Solutions does not include planned outages in connectivity availability calculations.

Availability Exclusions

The following items are excluded from Motorola Solutions' availability calculations:

- Periods of Soft Outage, during which the MDPD is able to use the ASTRO 25 Connectivity Service, and is not prepared to release the service for immediate testing.
- MDPD Premises Equipment ("CPE") not under Motorola Solutions 24/7 monitoring coverage.
- Any delay, act, or omission by the MDPD or a third-party, other than the local access
 provider, that causes or extends an outage is excluded from the availability calculation. In
 addition, periods of service degradation, such as slow data transmission, where a Critical P1
 trouble ticket has not been opened with Motorola Solutions and MDPD has not released its
 Service for immediate testing are excluded.
- "AS IS". THE SOLUTION AND SUBSCRIPTION SERVICES DESCRIBED HEREIN ARE PROVIDED "AS IS". MOTOROLA SOLUTIONS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED
- Availability and Accuracy. MDPD acknowledges that functionality, availability, and accuracy of the services described herein is dependent on many elements beyond Motorola Solutions' control, including databases managed by MDPD or third parties and MDPD's existing equipment, software, and MDPD Data. Therefore, Motorola Solutions does not guarantee availability or accuracy of data, or any minimum level of coverage or connectivity. MDPD agrees not to represent to any third party that Motorola Solutions has provided such guarantee. Interruption or interference with the services described herein may periodically occur.
- The Service and/or features may not be available in all areas.

H.3.4.2 Incident Priority Definitions and Response Times

This section describes incident priority levels that support availability measurements.

Table H-6: ASTRO 25 Connectivity Incident Priority Definitions and Response Time Goals

Incident Priority	Incident Definition	Primary Link Response Time Goals	Secondary Link Response Times
Critical P1	Hard Outage. The ASTRO 25 Connectivity Service is completely inoperable or degraded to the extent that it is unusable by the MDPD. MDPD is prepared to release the service for immediate testing.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
High P2	ASTRO 25 Connectivity Service performance is degraded, but MDPD is able to use the Service. Incidents are assigned this priority if MDPD is not prepared to release the service for immediate testing.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Medium P3	A problem is affecting an ASTRO 25 Connectivity Service component, and that problem does not impact service functionality or availability.	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5
Low P4	 MDPD's requests that do not impact the ASTRO 25 Connectivity Service, such as a MDPD request for an incident report Service incidents not covered by other priority levels. Scheduled maintenance. 	Monitored 24/7. Response within 15 minutes. Restoration in 3.5 hours.	8x5

H.3.5 ASTRO 25 Connectivity Service Sites and Equipment

Table H-7 describes sites included in the backhaul design, notes their location, and lists the critical solution equipment provided for them.

Table H-7: ASTRO 25 Connectivity Service Interconnected Site Locations

Site Name	Site Address	Major Equipment
Miami-Dade LightSpeed Main Dispatch Center	11500 NW 25 St., Miami, FL 33172	Routers & LTE
TCC	6000 SW 87 Ave., Miami, FL 33173	Routers & LTE

H.4 Availability Reports

H.4.1 Description of Service

Motorola Solutions shall track the availability of MDPD's ASTRO 25 Connectivity Service components using standardized availability reports, and will endeavor to achieve availability goals based on those reports. Motorola Solutions automatically collects and collates availability data from network elements, and uses that data to determine system health and if any maintenance or improvements are needed. Trend analysis can indicate capacity, availability, or reliability issues before they significantly affect services.

H.4.2 Scope

Each month, Motorola Solutions shall create and distribute a network availability report to compare with availability levels described in Section H.3.4: Availability Goals.

This service includes the following tasks:

- Data Collection—Availability data is remotely collected and stored for reporting purposes.
- Data Reporting—A suite of availability reports is generated and uploaded to MyView Portal.

H.4.3 Inclusions

Availability reports shall be provided for Motorola Solutions-provided site connections included as part of the ASTRO 25 Connectivity Service.

H.4.4 Motorola Solutions Responsibilities

- Collect availability data through defined interfaces.
- · Provide the availability reports within MyView Portal.
- Provide a Motorola Solutions assigned technician for MDPD as a point of contact for questions MDPD has about the findings or service reports provided by Motorola Solutions.

H.4.5 Limitations and Exclusions

 Motorola Solutions' availability target objectives, and related availability calculations, exclude availability degradation resulting from MDPD's failure to promptly take necessary actions.

H.4.6 MDPD Responsibilities

None

H.5 Backhaul Event Monitoring

H.5.1 Description of Service

Motorola Solutions shall provide Backhaul Event Monitoring which is a real-time end-to-end event monitoring and fault isolation for ASTRO 25 Connectivity Service backhaul components and links. A set of sophisticated tools support remote detection and classification of events on MDPD's backhaul network. When an event is detected, MDPD will be alerted viatickets provided through the MyViewportal as well through email notifications. Motorola Solutions shall determine the status of impacted backhaul links and engage with other service teams as needed to isolate the cause and resolve the incident. Motorola Solutions shall respond to incidents in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.

H.5.2 Scope

Backhaul Event Monitoring is available 24 hours a day, 7 days a week. Motorola Solutions' tools and processes for monitoring ASTRO 25 radio networks will be leveraged to monitor the backhaul endpoints effectively, and to provide a consistent monitoring experience if receiving both services. Incidents that are generated by the monitoring service will be handled in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.

H.5.3 Inclusions

Backhaul Event Monitoring is provided for the links and equipment listed in Section H.3.5: ASTRO 25 Connectivity Service Sites and Equipment.

H.5.4 Motorola Solutions Responsibilities

- Use concurrent connectivity through the network connection established to support Backhaul Event Monitoring.
- Verify connectivity and event monitoring after system installation is complete.
- Monitor backhaul links continuously 24 hours per day, 7 days per week.
- Create incident tickets when necessary. Identify and classify the link associated with the incident. Gather information to perform the following:
 - Characterize the issue.
 - Determine a plan of action.
 - Assign and track the incident to resolution.
- Remotely access MDPD's backhaul to perform remote diagnosis and fault isolation as permitted by MDPD pursuant to Section H.5.6: MDPD Responsibilities.
- Dispatch MDPD's field service technician designated in the CSP when necessary, and maintain communications with MDPD until the incident is resolved. Provide updates in accordance with the agreed frequency, until resolution.

H.5.5 Limitations and Exclusions

Monitoring excludes Miami-Dade Enterprise Network ("CEN") components.

- Additional support charges beyond the contracted service rates may apply if Motorola Solutions determines that system faults were caused by MDPD making changes to critical system parameters.
- Motorola Solutions is not responsible for system faults or deficiencies that are caused by changes or modifications to the system not performed by Motorola Solutions.
- MDPD assigned Motorola technicians to notify the CMSO when MDPD performs any activity
 that impacts the backhaul components. Activity that impacts the backhaul components may
 include, but is not limited to: installing software or hardware upgrades, performing upgrades
 to the network, renaming elements or devices within the network, and taking down part of
 the system to perform maintenance.

H.5.6 MDPD Responsibilities

- Provide continuous power service to any Motorola Solutions backhaul equipment installed or used at MDPD's premises to support delivery of the service. MDPD agrees to take reasonable due care to secure the Motorola Solutions equipment from theft or damage while on MDPD's premises.
- Allow Motorola Solutions' field service technician, designated in the CSP, access to remove Motorola Solutions-owned monitoring equipment upon cancellation of service.
- Acknowledge that incidents will be handled in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.

H.6 Remote Technical Support

H.6.1 Description of Service

Motorola Solutions shall provide Remote Technical Support service including telephone consultation for technical issues that require ASTRO 25 Connectivity Service backhaul knowledge and troubleshooting capabilities. As with ASTRO 25 incidents, the CMSO Service Desk will respond to ASTRO 25 Connectivity Service incidents.

H.6.2 Scope

The CMSO Service Desk shall be available via telephone 24 hours per day, 7 days per week, and 365 days per year to receive and log requests for technical support. Remote Technical Support service shall be provided in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times. Any unresolved incidents will be escalated to Motorola Solutions engineering and Original Equipment Manufacturers (OEM) for further assistance.

H.6.3 Motorola Solutions Responsibilities

- Maintain availability of the Motorola Solutions CMSO Service Desk via telephone (800-221-7144) 24 hours per day, 7 days per week, and 365 days per year to receive, log, and classify MDPD requests for support.
- Respond to requests for service in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.
- Provide caller a plan of action outlining additional requirements, activities, or information required to achieve restoral/fulfillment.
- Maintain communication with MDPD in the field as needed until resolution of the incident.
- Coordinate technical resolutions with agreed upon third-party vendors, as needed.
- Escalate support issues to additional Motorola Solutions technical resources, as applicable.
- Determine, in its sole discretion, when an incident requires more than the Remote Technical Support services described in this SOW and notify MDPD of an alternative course of action.
- The MDPD assigned Motorola technician will submit changes in any information supplied in the CSP to the MDPD Support Manager ("CSM").

H.6.4 Limitations and Exclusions

The following activities are outside the scope of the Remote Technical Support service:

- Customer training.
- Remote Technical Support for network transport equipment or third-party products not sold by Motorola Solutions.
- Any maintenance and/or remediation required as a result of a virus or unwanted cyber intrusion.

H.6.5 MDPD Responsibilities

 Maintain suitably trained technical resources familiar with the operation of MDPD's system to provide field maintenance and technical maintenance services for the system. • Acknowledge that incidents will be handled in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.

H.7 On-site Response

Motorola Solutions shall provide On-site Response service including incident management and escalation for on-site technical service requests. The service is delivered by Motorola Solutions' Centralized Managed Support Operations ("CMSO") organization in cooperation with a local service provider.

H.7.1 Description of Service

The Motorola Solutions CMSO Service Desk will receive MDPD's request for on-site service.

The CMSO Dispatch Operations team is responsible for opening incidents, dispatching on-site resources, monitoring issue resolution, and escalating as needed to achieve response time goals.

The dispatched field service technician will travel to MDPD's location to restore the system in accordance with Section H.3.4.2: Incident Priority Definitions and Response Times.

Motorola Solutions shall manage incidents as described in this SOW. The CMSO Service Desk will maintain contact with the field service technician until incident closure.

H.7.2 Scope

On-site Response is available as needed to support the availability described in Section H.3.4: Availability Goals.

H.7.3 Inclusions

On-site Response is provided for hardware included with ASTRO 25 Connectivity Service.

H.7.4 Motorola Solutions Responsibilities

- Receive service requests.
- Create an incident when service requests are received. Gather information to characterize the issue, determine a plan of action, and assign and track the incident to resolution.
- Dispatch a field service technician, as required by Motorola Solutions' standard procedures, and provide necessary incident information.
- Provide the required personnel access to relevant Miami-Dade information, as needed.
- Motorola Solutions designated field service technician will perform the following on-site:
 - Run diagnostics on the component.
 - Perform physical fault restoration and hardware maintenance to restore component functions.
 - Provide materials, tools, documentation, physical planning manuals, diagnostic and test equipment, and any other material required to perform the maintenance service.
 - If a third-party vendor is needed to restore the system, the vendor can be accompanied onto MDPD's premises.
 - If required by MDPD's repair verification in the Customer Support Plan ("CSP"), verify
 with MDPD that restoration is complete or system is functional. If verification by MDPD
 cannot be completed within 20 minutes of restoration, the incident will be closed and the
 field service technician will be released.

- Escalate the incident to the appropriate party upon expiration of a response time.
- Close the incident upon receiving notification from MDPD or Motorola Solutions on-site service technician, indicating the incident is resolved.
- Notify MDPD of incident status, as defined in the CSP and Service Configuration Portal ("SCP"):
 - Open and closed.
 - Open, assigned to the Motorola Solutions field service technician, arrival of the servicer technician on-site, delayed, or closed.
- Provide incident activity reports to MDPD, if requested.
 If required by repair verification preference provided by MDPD, MDPD assigned Motorola technicians to verify with the CMSO Service Desk and dispatch that restoration is complete or system is functional. MDPD assigned Motorola technicians to perform reasonable or necessary acts to enable Motorola Solutions to provide these ACS services.

H.7.5 Miami-Dade Responsibilities

- Contact Motorola Solutions, as necessary, to request service.
- Prior to start date, provide Motorola Solutions with the following pre-defined Miami-Dade information and preferences necessary to complete CSP:
 - Incident notification preferences and procedure.
 - Repair verification preference and procedure.
 - Database and escalation procedure forms.
- Submit changes in any information supplied in the CSP to the Customer Support Manager ("CSM"), 3
- Provide the following information when initiating a service request:
 - Assigned system ID number.
 - Problem description and site location.
 - Other pertinent information requested by Motorola Solutions to open an incident.
- Provide field service technician with access to equipment.

H.8 Software Updates

H.8.1 Description of Service

Each quarter, Motorola Solutions shall provide relevant Original Equipment Manufacturer ("OEM") software patches for backhaul equipment included as part of the ASTRO 25 Connectivity Service. These patches will update equipment when required to maintain compatibility with components or will address security vulnerabilities.

H.8.2 Scope

Motorola Solutions shall update network components when it determines it is necessary to maintain the ASTRO 25 Connectivity Service, and will provide security updates as needed to address identified security vulnerabilities. Any updates done will be in coordination with MDPD.

Software Updates follow Motorola Solutions' defined change management process to avoid potential disruption. Once an OEM software update is available, Motorola Solutions initiates the change process to define the update's impact and work with MDPD to schedule its implementation.

H.8.3 Inclusions

Motorola Solutions shall provide relevant software patches and updates as provided by OEMs based on a schedule mutually agreed by the parties.

H.8.4 Motorola Solutions Responsibilities

- Provide relevant software and security patches to MDPD when provided by the OEM.
- Notify MDPD if an update will require network downtime to implement.
- Work with MDPD to schedule installation of disruptive software patches.

H.8.5 Limitations and Exclusions

 Motorola Solutions does not provide warranties on software updates. Warranties on software updates, if available, will be provided directly by the OEM.

H.8.6 Miami-Dade Responsibilities

Work with Motorola Solutions to schedule installation of disruptive software patches.

PRICING

Motorola Solutions is pleased to provide the following equipment and application services to Miami-Dade Police Department at the prices set forth herein:

9.1 EQUIPMENT, SMART SERVICES, INSTALLATION, PROJECT MANAGEMENT & DEPLOYMENT SERVICES

Description	Qty	MSRP	Contract Price
Portables – APX NEXT Single-Band & Accessories Includes Yr.1 & 2 of Warranty & Smart Services	4690	\$54,234,182	\$40,133,295
Portables – APX NEXT Multi-Band & Accessories Includes Yr.1 & 2 of Warranty & Smart Services	250	\$3,663,378	\$2,710,899
Mobiles – APX 8500 Single-Band Radios & Accessories Includes Yr.1 & 2 of Warranty & Smart Services	2720	\$33,307,520	\$24,647,565
Mobiles – APX 8500 Multi-Band Radios & Accessories Includes Yr.1 & 2 of Warranty & Smart Services	30	\$414,330	\$306,604
SG Routers – Sierra Wireless XR80 Routers with Warranty & Maintenance AirLink Complete Management & Maintenance	2750	\$7,975,000	\$7,337,000
SmartConnect Infrastructure - ASTRO 25 Core - (2) ISSI Gateway - SmartConnect Gateway - ACS Dedicated Circuits - Installation, Configuration & Test	ı	\$2,085,457	\$1,668,366
Dispatch Consoles - (4) MCC7500e Dispatch Consoles, foot pedals, jack boxes - (2) AIS for Logging with Integration to NICE Logger - Installation, Configuration & Test	-	\$605,468	\$507,036
CommandCentral Location & Mapping - CloudConnect Location Server - CC Aware Enterprise Level License (1000) - Sierra Wireless ACM Servers & Support - Installation, Configuration & Test	-	\$354,100	\$354,100
Vehicle Radio / Router Installation - Installation of (2462) APX Mobile Radios - Installation of XR80 5G Routers - 12 Vehicle Installations / Day - Installations will be performed at 10 Locations (one at a time) - Program Management of Installations	2462	\$2,141,940	\$2,141,940

Description	Qty	MSRP	Contract Price
Radio Programming - Program Management - Programming of Sierra Wireless Routers (2833) - Programming & Keyloading of APX Portables, Mobiles & Consolettes (7814)	10,647	\$1,548,513	\$1,548,513
Dispatch Center Back-up Radios - (46) APX Dispatch Consolettes (includes 3 spares) - MCD5000 Deskset, JackBoxs & Footpedals - (5) 5G Routers & (2) Switches - Installation, Networking & Configuration	46	\$1,211,639	\$969,311
Control Stations - (78) APX Dispatch Consolettes, Desk Mics - (78) 5G Routers - Installation	78	\$1,370,051	\$1,096,040
Initial Radio Fleet Deployment Services - Radio Template & Codeplug Building (up to 50) - Smart Services & CommandCentral Provisioning - ASTRO 25 SmartConnect Provisioning - Sierra Wireless Provisioning - Training	-	\$468,588	\$468,588
Backup Hosted SmartConnect Integration & 5 Year Service	-	\$226,747	\$226,747
APX NEXT CAD Integration & ViQi Virtual Partner Integration	-	\$200,000	\$200,000
Genesis ATIA & MCM Integration	-	\$230,450	\$212,014
Support Services - Dedicated Technicians (Yrs. 1 & 2) - ASTRO Connectivity Services (ACS) Circuits (2) Initial Setup - ASTRO Connectivity Services (ACS) Circuits (Yrs. 1 & 2) - Infrastructure Support Services Yr. 2	-	\$1,612,823	\$1,612,823
MDPD Sub-Total		\$111,650,185	\$86,140,841

Description	Contract Price
MDPD Sub-Total	\$86,140,841
Negotiated Volume Purchase Incentive	-\$7,065,859
Negotiated Infrastructure Incentive	-\$1,657,816
Negotiated Large Purchase Incentive	-\$2,408,816
Additional Negotiated APX NEXT CAD & ViQi Virtual Partner Integration Incentive	-\$200,000
Additional Negotiated Backup Hosted SmartConnect Incentive	-\$226,747
Additional Negotiated Subscriber Incentive	-\$2,182,750
Additional Negotiated Mobile Upgrade Incentive - Qty 2720 APX6500 to APX8500 Single-Band	-\$1,365,679
Additional Negotiated Genesis Incentive	-\$27,654
MDPD Total After Year 1 Incentives	\$71,005,520
MDPD Subscriber Services Outyears 3-5 MSRP	\$10,515,457
Additional Negotiated Subscriber Smart Services & Warranty Outyears Incentive Through Year 5	-\$1,051,546
Additional Negotiated Cache Subscriber Services Incentive Through Year 5 (Qty 300 Portable, Qty 170 Mobiles)	-\$424,710
MDPD Subscriber Services Outyears 3 - 5 Total after Incentives	\$9,039,201
MDPD Grand Total with Subscribers Services Outyears 3 - 5 (Validity to August 23rd, 2022)	\$80,044,721
Contingency Fund *	\$150,000
MDPD Grand Total w/ Subscriber Services Outyears 3-5 & Contingency Fund (Validity to August 23rd, 2022)	\$80,194,721
MDPD Grand Total w/ Subscriber Services Outyears 3-5 & Contingency Fund (Validity from August 24th, 2022, to October 23rd, 2022)	\$80,993,549

^{*} Contingency Fund - for up to \$150,000 for additional radio equipment to address any changes in fleet with possible increases in mobiles, portables, accessories or other items.

9.2 REMOTE SPEAKER MICROPHONE (RSM) SELECTION & INCENTIVE

Miami-Dade Police Department reserves the right to select either the Wired or Bluetooth (BT) wireless RSM Kit (includes RSM, Two batteries & Dual-unit Charger) on a per radio basis. The BT RSM selection is valued at \$125 more than Wired RSM, per unit. Upon availability of the BT RSM, the following options apply:

- Equipment Exchange MDPD can trade-in the Wired RSM for a BT RSM Kit at no additional cost, as long as the Wired RSM is in working condition during the initial purchase period. If MDPD elects to exchange Wired RSMs for Bluetooth RSM Kits, MDPD will have up to 60 days from when a quantity of 20 commercially available Bluetooth RSM Kits has been provided to MDPD to complete their evaluation. MDPD will then have 90 days to decide how many units to exchange and initiate a no-cost exchange with Motorola.
- Wired RSM Purchase After electing to exchange Wired RSMs for the BT RSMs,
 MDPD has the option to keep the Wired RSMs for an additional price of \$200/unit.

9.3 5-YEAR SMART SERVICES & WARRANTY

9.3.1 Detailed Smart Services & Warranty Outyears 3 - 5

Description	Invoice Timing	Invoice Amount
Years 1 & 2 of Application Services & Warranty ***	N/A	Included
Year 3 of Application Services & Warranty ***	Two Years after Initial Service Activation	\$3,505,152
Year 4 of Application Services & Warranty ***	Three Years after Initial Service Activation	\$3,505,152
Year 5 of Application Services & Warranty ***	Four Years after Initial Service Activation	\$3,505,152

^{***} Includes the following:

APX NEXT Portables - Qty. 4940

- Advanced Coverage with Accidental Damage Warranty
- SmartProgramming Service
- SmartConnect Service
- SmartLocate Service
- SmartMapping Service
- SmartMessaging Service

APX Mobiles & Consolettes - Qty. 2874

- SmartProgramming Service
- SmartConnect Service

CommandCentral Logins - Qty. 1000

Motorola shall provide freeSmart Services through 10 years for the cache Radios listed below:

300 APX NEXT XE Portables

- SmartProgramming Service
- SmartConnect Service
- SmartLocate Service
- SmartMapping Service
- Smart Messaging Service

170 APX8500 Mobiles

- SmartConnect Service
- SmartProgramming Service

Continuation of 8.3.1.

Device Type	Service	Qty.	Price / Yr.	Annual Total	Yrs.	Yrs. 3 - 5
Portables	APXNEXT ADVANCED WITH ACCIDENTAL DAMAGE	4940	\$210	\$1,037,400	3	\$3,112,200
Mobile	APXMOBILE WARRANTY	Included	Included	-	-	
Annual War	ranty Total			\$1,037,400		
3 Year Wan	anty Total			-Hyn		\$3,112,200
						The Avid
Portables	APX NEXT SMART PROGRAMMING	4940	\$75	\$370,500	3	\$1,111,500
Portables	es APXNEXTSMARTCONNECT 4940 \$		\$75	\$370,500	3	\$1,111,500
Portables	APXNEXT SMART LOCATE 4940 \$75 \$370,500 3		3	\$1,111,500		
Portables	APX NEXT SMART MAPPING	4940	\$75	\$370,500	3	\$1,111,500
Portables	APX NEXT SMART MESSAGING	4940	\$75	\$370,500	3	\$1,111,500
Mobile	APX MOBILE SMART PROGRAMMING	2847	\$144	\$409,968	3	\$1,229,904
Mobile	APXMOBILE SMART CONNECT	2847	\$144	\$409,968	3	\$1,229,904
	CommandCentral Aware User Logins	1000	\$119	\$119,000	3	\$357,000
	Volume Incentive	-	-	-\$323,684	3	-\$971,052
Annual Sma	art Services / CommandCentral Aware Login T	otal		\$2,467,752		
3 Year Sma	rt Services / CommandCentral Aware Login To	otal		art case 1		\$7,403,256
		THE RE				
Annual War	ranty & Smart Services / CommandCentral Av	vare Lo	gin Total	\$3,505,152		
3 Year Wan	anty & Smart Services / CommandCentral Aw	are Log	in Total	H		\$10,515,456

9.3.2 Outyears 6 - 10 is provided only for MDPD planning purposes using guidelines below.

- Initial Years 1 5 unit price per year
 - o Portable Smart Service: \$75 per Smart Service per unit per year
 - o Mobile Smart Service: \$144 per Smart Service per unit per year
 - o Portable Maintenance: \$210 per unit per year
 - o Mobile Maintenance: \$101 per unit per year.
 - o CommandCentral Logins: \$119 per unit per year
- Outyears 6 10 Price Escalation
 - o CPI-based 8.3% escalator in year 6
 - Inflation-based 3% escalator for years 7 10
- Years 6 10 Incentive Commitment
 - o 10% Discount on all maintenance and Smart Services
 - Free Smart Services for designated Cache Radios
 - Qty. 800 Portables
 - Qty. 170 Mobiles

The below table describes Subscriber Maintenance and Smart Services Outyears 6 - 10 projected costs and incentives for planning purposes only per the above guidelines assuming the quantities stated below.

Year	Portable Maintenance	Portable Smart Service	Portable Projected Qty	Mobile Maintenance	Mobile Smart Service	Mobile Projected Qty	CommandCentral Logins	Total Projected
6	\$227	\$406	4,940	\$109	\$312	2,750	\$128,877	\$4,417,178
7	\$234	\$418	4,940	\$113	\$321	2,750	\$132,743	\$4,549,693
8	\$241	\$431	4,940	\$116	\$331	2,750	\$136,726	\$4,686,184
9	\$249	\$444	4,940	\$120	\$341	2,750	\$140,827	\$4,826,770
10	\$256	\$457	4,940	\$123	\$351	2,750	\$145,052	\$4,971,573
						Project	ted MSRP Subtotal	\$23,451,398
	Negoti	ated Back	up SmartCo	onnect Service	(MDPD &	MDPD) Out	years 6-10 Incentive	-\$424,674
Negotiated ACS (MDPD & MDPD) Outyears 6-10 Incentive							years 6-10 Incentive	-\$359,430
Negotiated Outyears 6-10 Incentive							-\$2,219,589	
Negotiated Outyears 6-10 Cache Radio Incentive (Qty 800 Portables, Qty 170 Mobiles)						-\$1,811,206		
Outyears 6-10 Projected Price							\$18,636,500	
Effective Discount							21%	

Year	Portable Maintenance after Incentive	Portable Smart Service after Incentive	Portable Projected Qty	Mobile Maintenance after Incentive	Mobile Smart Service after Incentive	Mobile Projected Qty	CommandCentral Logins after Incentive	Total Projected after Incentive
6	\$198	\$353	4,140	\$95	\$271	2,580	\$111,999	\$3,611,286
6	\$198	\$0	800	\$95	\$0	170	\$0	\$75,454
7	\$204	\$364	4,140	\$98	\$279	2,580	\$115,359	\$3,719,624
7	\$204	\$0	800	\$98	\$0	170	\$0	\$77,717
8	\$210	\$374	4,140	\$101	\$288	2,580	\$118,820	\$3,831,213
8	\$210	\$0	800	\$101	\$0	170	\$0	\$80,049
9	\$216	\$386	4,140	\$104	\$296	2,580	\$122,385	\$3,946,149
9	\$216	\$0	800	\$104	\$0	170	\$0	\$82,450
10	\$222	\$397	4,140	\$107	\$305	2,580	\$126,056	\$4,064,534
10	\$222	\$0	800	\$107	\$0	170	\$0	\$84,924
Total Projected Negotiated Price after Incentives							\$18,636,500	

9.4 OPTIONAL FUTURE SERVICES

Description	Deployment & Integration Services	Cost / Device / Yr.	Invoice Amount for 4940 Devices
APX NEXT CAD Interface	\$100,000	\$75 / Device / Yr.	\$370,500
ViQi Queries	\$100,000	\$75 / Device / Yr.	\$370,500

The APX NEXT CAD Interface will be available to work with 3rd party CAD providers in 2024. ViQi Virtual Partner queries is pending FDLE approval and can be added as a service upon availability.

9.5 BACKUP HOSTED SMARTCONNECT SERVICE

SmartConnect Service to host a set of SmartConnect LTE Groups on the Motorola Hosted System as a service:

- One-time Initial Setup of up to 8000 devices
- Annual hosted service for up to 8000 devices

Description	Price
Initial Setup	Included
Year 1 of Hosted SmartConnect	Included
Year 2 of Hosted SmartConnect	Included
Year 3 of Hosted SmartConnect	\$40,314
Year 4 of Hosted SmartConnect	\$41,524
Year 5 of Hosted SmartConnect	\$42,769
Services & Warranty Total for Yrs. 1 - 5	\$226,747

Additional Negotiated Backup Hosted SmartConnect Service Years 1 - 5 Incentive of \$226,747 applied to equipment purchase as listed in Section 8.1.

Description	Price
Year 6 of Hosted SmartConnect	\$44,052
Year 7 of Hosted SmartConnect	\$45,374
Year 8 of Hosted SmartConnect	\$46,735
Year 9 of Hosted SmartConnect	\$48,137
Year 10 of Hosted SmartConnect	\$49,581
Services & Warranty Total for 1 Yrs. 6 - 10	\$233,879

Additional Negotiated Backup Hosted SmartConnect Service Years Incentive of \$233,879 committed to Years 6 - 10 as listed in Section 8.3.2 as a combined MDPD & MDPD discount. Additionally, Section 8.3.2 includes an incentive commitment for MDPD's portion of Backup

Hosted SmartConnect for Years 6 - 10 valued at \$190,794, for a Grand Total Incentive commitment to MDPD of \$424,673.

9.6 DEDICATED RADIO TECHNICIANS

	Description	Qty	Annual Cost / Technician
Ful - - - -	I-time Dedicated Radio Technician Trained Technician Test Equipment & Vehicle Programming & Provisioning of Radios & 5G Routers after initial deployment Programming & Provisioning of CommandCentral after initial deployment Preventive Maintenance of Radios	2	\$225,000
-	Assist with ongoing provisioning of SmartConnect Groups on backup Core Section 4 lists detailed responsibilities		
Ye	ar 1 Cost		Included
Year 2 Cost		Included	
Ye	Year 3 Cost		
Ye	Year 4 Cost		
Ye	ar 5 Cost		\$546,977.81

9.7 ASTRO CONNECTIVITY SERVICES FOR SMARTCONNECT (2) DEDICATED ACS CIRCUITS

ASTRO Connectivity Services - Dedicated Circuits

- Dispatch Services & Onsite repair (24hrs/7days per week)
- Circuit monitoring & response

Description	Included
Initial Setup	Included
Year 1 of ASTRO Connectivity Services	Included
Year 2 of ASTRO Connectivity Services	Included
Year 3 of ASTRO Connectivity Services	\$41,304
Year 4 of ASTRO Connectivity Services	\$42,542
Year 5 of ASTRO Connectivity Services	\$43,818
Total for Years 1 - 5	\$256,696

Description	Invoice Amount
Year 6 of ASTRO Connectivity Services	\$45,134
Year 7 of ASTRO Connectivity Services	\$46,488
Year 8 of ASTRO Connectivity Services	\$47,882
Year 9 of ASTRO Connectivity Services	\$49,318
Year 10 of ASTRO Connectivity Services	\$50,798
Total for Years 6 - 10	\$239,620

Negotiated ASTRO Connectivity Services (ACS) Incentive of \$239,620 committed to Years 6 - 10 in listed in Section 8.3.2. Additionally, Section 8.3.2 includes an incentive commitment for MDPD's portion of ACS for Years 6 - 10 valued at \$119,810, for a Grand Total Incentive commitment to MDPD of \$359,430.

9.8 INFRASTRUCTURE SUPPORT SERVICES

	Description	Annual Cost
AS	TRO 25 Core, CloudConnect Server & Sierra Wireless ACM Servers	-
-	Remote Technical Support	
-	Dispatch Services (24hrs/7days per week)	
-	OnSite Infrastructure Response	
-	Annual Preventive Maintenance Check	
-	Network Event Monitoring	
-	Network Hardware Repair with Advanced Replacement	
	Network Updates	
-	Security Update Service	
1-	Security Monitoring	
- - - -	patch Center Back-up Radios & Routers Remote Technical Support Dispatch Services (24hrs/7days per week) OnSite Infrastructure Response Annual Preventive Maintenance Check Board Repair & Replacement	
Ye	ar 1 Cost	Included in Warranty
Ye	ar 2 Cost	Included
Ye	ar 3 Cost	\$598,640.17
Ye	ar 4 Cost	\$621,078.11
Ye	ar 5 Cost	\$645,234.71

9.9 GENESIS ESA

Genesis GenWatch Essential Services Agreement.

Description	Invoice Amount	
Year 1 Annual	Included	
Year 2 Annual	Included	
Year 3 Annual	\$31,768	
Year 4 Annual	\$32,721	
Year 5 Annual	\$33,703	
Total for Years 1 - 5	\$98,193	

Description	Invoice Amount
Year 6 Annual	\$34,714
Year 7 Annual	\$35,755
Year 8 Annual	\$36,828
Year 9 Annual	\$37,933
Year 10 Annual	\$39,071
Total for Years 6 - 10	\$184,302

SECTION 10

PAYMENT MILESTONES

10.1 PAYMENT SCHEDULE

MDPD will make payments to Motorola Solutions upon invoice as set forth in the Agreement. Payment for the System purchase will be in accordance with the following milestones.

10.2 SYSTEM PURCHASE (EXCLUDING SUBSCRIBERS)

- 1. 15% of the System Price due upon Contract Execution (due upon effective date).
- 2. 15% of the System Price due upon Contract Design Review.
- 3. 20% of the System Price due upon Shipment of Equipment for P25 Master Site, Consoles and Location Servers.
- 4. 15% of the System Price due upon Installation of P25 Master Site, Consoles & Location servers.
- 5. 10% of the System Price due upon Shipment of Equipment for Backup Control Stations.
- 6. 5% of the System Price due upon Installation of Backup Control Stations.
- 7. 15% of the System Price due upon Programming & Installation of Mobile & Portable Radios.
- 8. 5% of the System Price due upon Final Acceptance.

10.3 SUBSCRIBERS PURCHASE

100% of the Subscriber Contract Price will be invoiced upon receipt and acceptance, not to exceed ten (10) calendar days post-delivery (as shipped). Subscribers will be shipped in lots of no more than 500 units, every 10 calendar days, unless mutually agreed upon.

10.4 LIFECYCLE SUPPORT & SUBSCRIPTION BASED SERVICES

Motorola Solutions will invoice MDPD annually in advance of each year of the plan per Sections 9.5, 9.6, 9.7, 9.8 and 9.9.

10.5 PARTIAL SHIPMENTS

Motorola Solutions reserves the right to make partial shipments of equipment and to invoice per section 9.3.

SECTION 11

SCHEDULE

Quantities	Discounted Product(s)	Discount
1-499	APX& APXNEXT P25 Radio Equipment	27%
	APX Radio Accessories	27%
666-009	APX& APXNEXT P25 Radio Equipment	30%
	APXRadio Accessories	28%
1000-1999	1000-1999 APX & APX NEXT P25 Radio Equipment	33%
	APXRadio Accessories	78%
2000 plus	2000 plus APX & APX NEXT P25 Radio Equipment	35%
	APX Radio Accessories	30%

Infrastructure, 3rd Party Equipment & Services	Discount
Motorola Fixed Network Equipment	15%
Motorola Drop-ship Equipment	%8
Wireless Broadband Networking & LTE Equipment	2%
Video Security Solutions	2%
Installation, Support & Subscription Services	%0



SURFSIDE POLICE DEPARTMENT

APX NEXT PORTABLE RADIOS

OCTOBER 4, 2022



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SECTION 1

EXECUTIVE SUMMARY

Motorola Solutions, Inc. (Motorola) is pleased to present The Surfside Police Department with the following proposal. We thank you for the opportunity to work with the Surfside Police Department on your communication needs.

This proposal includes Next Generation APX NEXT Portable Radios which leverage LTE and SmartRadio technology to improve Fighter safety. This APX NEXT platform provides situational awareness through Location Tracking and Mapping of Users, sending of Messaging & Multi-Media between users and enhancing Voice Communications over LTE Cellular. Additionally, leveraging LTE for programming of radios enhances operational efficiency for the Department.

Motorola Solutions values the opportunity to serve The Surfside Police Department by providing world class, mission critical technology solutions. If you have any questions, please contact Josh Trifiletti at 954-736-9056.

1 113

SYSTEM DESCRIPTION

2.1 APX NEXT PORTABLE RADIO

2.1.1 APX NEXT Portable Radio All-Band

A MASSIVE ADVANCE IN MISSION-CRITICAL VOICE AND DATA Your radio is your lifeline. APX NEXT is our next step in advancing it. It's designed to military standards for extreme ruggedness. The touchscreen works with or without gloves—in rain, dirt, and dust. Digital mics and high-power speakers deliver our best audio ever, while SmartConnect keeps you connected even beyond your P25 system. The result is a radio that works when you need it, without pause, distraction or doubt.

EFFORTLESS IS ALWAYS IN REACH APX NEXT

is designed for effortless usability when everything is on the line. Intuitive knobs and buttons are easily distinguished by touch. A mission-critical touchscreen makes it fast and easy to operate your radio. ViQi understands a huge range of natural language voice commands, so you can operate the radio with eyes-up awareness. Every interaction is simple, fast and logical. You stay focused on what matters—your mission and your safety.

BRING NEW INTELLIGENCE TO THE POINT OF ENGAGEMENT

APX NEXT mission-critical apps bring new intelligence to the field. ViQi enables natural language database queries, rapidly giving vital information, and letting dispatchers stay focused on critical situations. And as part of our unique, end-to-end public safety ecosystem, APX NEXT data and operations are secure, and new capabilities can be seamlessly added as your needs evolve.

UPDATE YOUR FLEET IN MINUTES, NOT MONTHS APX NEXT

gives you back time: a cloud-based provisioning system prepares radios before they arrive. Remote updating keeps radios in the field, with zero touch and zero downtime. MyView Portal provides direct access to subscriptions, warranties and licenses, and a range of services helps you manage your operation. With APX

NEXT, your ownership experience is streamlined, so your valuable resources stay focused and ready.





2.1.2 Xtreme Voice Plus Remote Speaker Microphone – XVP830

The mission critical Xtreme Voice Plus (XVP830 / XVP850) Remote Speaker Microphone delivers the clearest and loudest audio communications in a sleek, compact package. Built to work as a system, the XVP RSM leverages your APX™ or APX NEXT radio audio capabilities to strengthen the most important thread of your lifeline: ultra-clear voice communications.

So no matter where you are or how you speak, you can be confident that, for every message, you'll hear and be heard clearly. In dynamic, high-stakes conditions, nothing outperforms the immediacy of voice communications. To be most effective, experience optimal audio performance with the XVP RSM when compared to standard single or dual mic RSM designs.

KEY FEATURES

- · Loudest, clearest speaker
- Multi-mic capability: four high dynamic range microphones
- Advanced windporting
- Adaptive noise suppression
- Intrinsically safe, Div 1 certified
- Enhanced ergonomic design



If proposed, a host of application services will enhance the APX NEXT device's capabilities in the following ways:

- Quick access to immediate, actionable intelligence via intuitive voice control and ViQi—a virtual partner that can run tags and provide detailed information through voice.
- Better coverage through automatic switching between LMR and broadband connectivity via SmartConnect.
- Accurate location data over a broadband network for more informed decision making via SmartLocate.
- Immediate software and security updates in the field using high-speed bandwidth and extended coverage of LTE networks via SmartProgramming.
- Precise and accessible location information for field users on a modernized map interface via SmartMapping.
- · Seamless and discrete multimedia communications over a broadband connection via SmartMessaging.

Managing and Provisioning Devices 2.2.1

APX NEXT delivers greater awareness and faster management of radio fleets with optimized provisioning, networking, and monitoring tools that transform accurate data into smarter action. These features enable dispatchers and network managers to make more informed operational decisions, keep radios in the field, and, above all, protect first responders' focus and safety.

APX NEXT Portable Radios

Device Management Services (DMS) packages provide programming, management, and maintenance services to maximize the effectiveness of this APX NEXT solution, while reducing maintenance risk, workload, and total cost of ownership. The DMS packages are separated into tiers designed for a range of customer needs, whether the solution is self-maintained or managed by Motorola Solutions.

Using Motorola Solutions' cloud based RadioCentral (RC) programming, APX NEXT supports faster provisioning and deployment to get devices in the hands of responders and out into the field. Parameters such as talk groups, interface options, and security keys can be programmed remotely within minutes. Access to RadioCentral is provided through the Device Management Service package.

The figure below illustrates the expedited RC provisioning process of APX NEXT.



Figure 2-11: APX NEXT Provisioning Process via RadioCentral

The APX NEXT out-of-the-box experience is streamlined with a few simple steps. Users will power on the device and view a boot-up animation with startup. Status bar icons on the front display indicate when a connection is made, and an update download is initiated. If the APX NEXT device is being started for the first time, a "peek-in" device management notification will indicate that the default configuration is detected. When the update download is complete, the device reboots and installs the update. When the install is complete, the device goes back to the full home screen and notifies the user that the update is complete. For Encryption and Authentication users, a KVL needs to be connected to the radio for those services. From power on to provisioning completion takes less than a minute.

2.2.2 Evolving with Updates and Upgrades

APX NEXT is a future-ready platform that will evolve alongside users through updates and upgrades, delivering expanded mission-critical capabilities while keeping personnel in the field where they are needed. To this end, APX NEXT eliminates the extended downtime and shop visits often associated with device upgrades; now, software patches can be automatically installed regardless of geographic location over a broadband connection, or, if proposed, immediately pushed to the field over LTE with Motorola Solutions' SmartProgramming service.

This streamlined process eliminates bottlenecks in the upgrade process and delivers important new features into users' hands. Firmware upgrades will also fit more seamlessly into workflows to avoid unnecessary disruptions. The figure below illustrates how feature updates are easily deployed to the entire radio fleet.

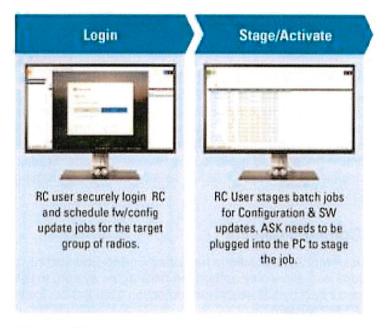


Figure 2-12: Typical Firmware and Configuration Update Process via RadioCentral

If a situation occurs where users do not have the time for an update, those updates can be delayed through a prompt until the next power cycle. This puts personnel directly in control of when updates work best for responders, especially in the chaotic environment of public safety. A snapshot of the APX NEXT device with "Install Update" prompt is shown below.



Figure 2-13: APX NEXT In-Field Update on the Device

2.2.3 SmartProgramming Application Service

Leveraging Device Managed Services (DMS) and RadioCentral provisioning capabilities, the SmartProgramming application allows radios to be updated anywhere within an agency's local LTE network coverage area. APX NEXT devices no longer need to be tied to a computer via USB cable, limited to WiFi network coverage, or gated by Land Mobile Radio (LMR) bandwidth. SmartProgramming allows the APX NEXT device to take advantage of LTE broadband data speeds to pull programming jobs from RadioCentral devices in minutes. The SmartProgramming Application Service is proposed as a subscription-based model to optimize budget and scale to meet evolving needs. Traditional cable programming will still be possible for APX NEXT radios as a fallback programming method and will be available in 2022.

2.2.4 Securing Communications

APX NEXT uses Motorola Solutions hardened End-to-End security to protect communications and allow only authorized units in the system to listen to transmissions. End-to-End security provides seamless protection from the device and data in transit to the cloud and the LMR system.

This solution ensures each component in the system is designed and validated against ongoing threat assessments to ensure vulnerabilities are detected and remedied, while potential new vulnerabilities will be addressed with seamless security updates. This offers transparent, real-time protection and keeps critical information and infrastructure safe.

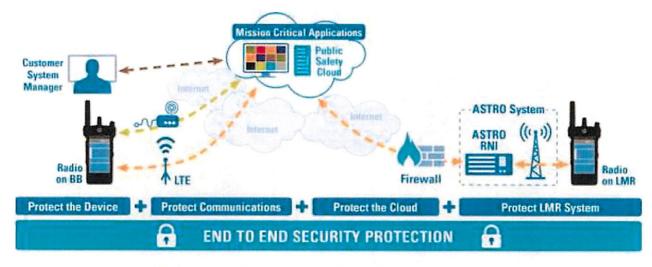


Figure 2-14: Motorola Solutions' End-to-End Security Solution

SmartConnect Application Service 2.2.5

First responders need to know that they are covered and supported with critical intelligence no matter where the mission takes them. Leveraging APX NEXT and supported devices. SmartConnect keeps users connected and maintains LMR features through a broadband connection. SmartConnect allows users to connect back into the The Surfside Police Department UHF Radio System when outside of the Radio System coverage footprint via a cellular FirstNet. Additionally, the proposed

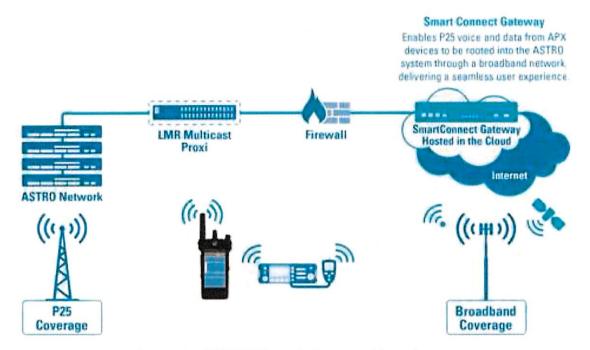


Figure 2-15: APX NEXT Network Elements of SmartConnect

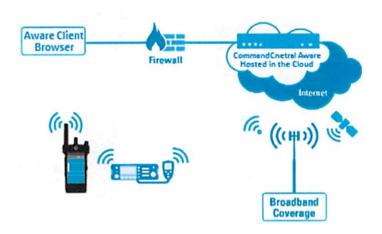
The SmartConnect Application Service is proposed as a subscription-based model to optimize budget and scale to meet evolving needs. In addition to the SmartConnect Gateway, Astro Connectivity Services Circuit (ACS) is included in order to have a dedicated circuit

2.2.6 SmartLocate with CommandCentral Aware

The APX NEXT SmartLocate service enables APX NEXT portables to send accurate GPS location information of field personnel over an LTE broadband network, enabling dispatchers and other users to track units to enhance officer safety through improved situational awareness. SmartLocate enhances location information accuracy using nearby cell-towers and Wi-Fi access points. This leads to more accurate APX NEXT radio unit tracking and improved location performance when a user moves indoors or enters marginal conditions (deep street canyons, forested areas).

SmartLocate is seamlessly integrated with the CommandCentral Aware application and feature location triggers such as time, distance, push-to-talk (PTT), emergency, and accelerated cadence during emergency. Dispatchers and other users are able to monitor the location of APX NEXT devices on the CommandCentral Aware client.

CommandCentral Aware's consolidated, map-based, operating picture enables enhanced information sharing and informed real time decisionmaking. Aware's cloud-based platform enables agencies to take advantage of new capabilities as they are developed, without an intrusive upgrade experience. Updates and new features are deployed every few weeks, and users automatically get new capabilities the next time they log in. Cloud deployments also reduce the operational impact of



faults and outages. This frees your staff to focus on strategic initiatives, instead of time-consuming tactical efforts, and drives greater value for public safety.

2.2.7 SmartMapping Application Service

The SmartMapping application provides precise and accessible location information for field users on APX NEXT's modernized map interface, improving situational awareness and informing response. Users can see their own location and the location/status of other officers at a glance and immediately tap to communicate with these personnel. SmartMapping streamlines engagement by providing access to the application directly from the APX NEXT home screen to best support users wherever the mission takes them. The Surfside Police Department will have licenses for all users and will not have a limitation on concurrent CommandCentral Aware logins.

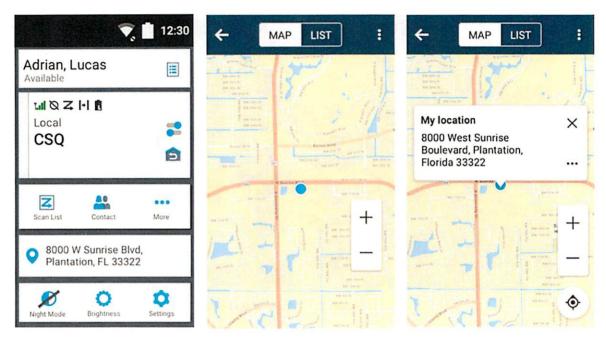


Figure 2-16: SmartMapping Widget, Map View, and Location Pop-Up Display (Left to Right)

SmartMapping also provides the following capabilities for APX NEXT users:

- Search for specific agency users to communicate with by using accessible, on-screen navigation and search tools.
- Select map layers to get a different view of an area, including Street View, Terrain, or Satellite Image.

Adapt to changing agency needs as new integrations and capabilities are introduced into the SmartMapping application.

SmartMessaging 2.2.8

You rely on radio for mission critical voice, but sometimes you need more than voice to be as safe and effective as possible. SmartMessaging is a multimedia communication tool designed for public safety that runs on your APX NEXT. With SmartMessaging, quickly and securely share text messages, images, videos, and voice notes with individuals or groups on other radios.

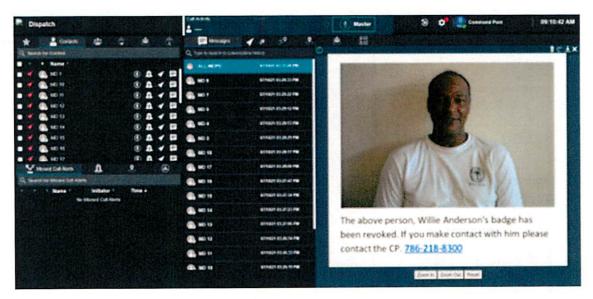


Figure 2-17: SmartMessaging Client.

Whether sending a text to stay quiet, or receiving a BOLO image from dispatch, SmartMessaging equips you for the situation with a multimedia communication toolkit, right at your fingertips.

2.2.9 Advanced Device Management Services w/ Warranty & Accidental Coverage

Easy Fleet Management – Easier and quicker radio provisioning, remote software updates, and streamlined management reduce downtime and support control center staff. Motorola Solutions' Device Management Services (DMS) maximize the effectiveness of APX NEXT, reducing maintenance risk, workload, and total cost of ownership. DMS brings RadioCentral (RC) programming to APX NEXT, as well, supporting faster provisioning and deployment to get devices in the hands of responders and out into the field.

Hardware Repair - Accidental Damage (Essential, Advanced, Premier) Accidental Damage coverage is an optional service for Essential and Advanced customers and is included as a standard feature in the Premier DMS offer. Accidental Damage coverage must be purchased together with, or within 90 days of, a qualifying Motorola Solutions hardware purchase. This offer reduces unexpected expenses relating to the repair of the device. Accidental Damage coverage includes all services within the Standard Hardware Repair plus coverage for Accidental Damage. Examples of items included under Accidental Damage Coverage include:

- Electrical repair for failures caused by accidental water damage.
- Electrical repair for accidental internal damage.
- · Replacement of accidentally cracked or broken housings.
- · Replacement of accidentally cracked or broken displays.
- Replacement of accidentally cracked or broken or missing keypads/buttons.

2.3 PRICING

2.3.1 APX NEXT Portable Radio Pricing

The below equipment lists include the APX NEXT Portable Radio Hardware, Accessories and Yr.1 SmartServices & Warranty. All pricing is quoted based on the Miami-Dade Agreement D-10253 for Motorola Public Safety Radios and Capital Improvement Project.

APX NEXT Single-Band Portable Radio	Qty.
All-Band Portable (7/800MHz)	35
P25 Trunking Phase 1 (FDMA) / Phase 2 (TDMA)	±11 V
Radio Authentication	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
AES / DES Encryption	-
Over-the-Air Rekeying (OTAR)	-
ViQi Voice Control	1287 - A
SmartConnect (Yr. 1)	
SmartLocate (Yr. 1)	-
SmartMapping (Yr. 1)	-
Smart Messaging (Yr. 1)	-
SmartProgramming (Yr. 1)	-
Warranty w/Accidental Coverage	_
Battery	-
Stubby Antenna	-
Plastic Carry Holster w/ 3in clip	35
Spare Battery	19
APX NEXT Impres Single Unit Charger	35
MSRP	\$403,919.85
MDPD Contract Discount	-\$125,932.90
Grand Total *	\$277,986.95

2.3.2 APX NEXT SmartServices & Warranty

The Accidental Warranty & SmartServices for the APX NEXT Radios quoted below on an annual basis includes SmartMapping /SmartLocate, SmartMessaging and SmartProgramming.

APX NEXT Smart Services & Warranty	Amount
Year 1 of Application Services & Warranty	Included
Year 2 of Application Services & Warranty	Included
Year 3 of Application Services & Warranty	\$19,404.00
Year 4 of Application Services & Warranty	\$19,404.00
Year 5 of Application Services & Warranty	\$19,404.00

2.3.3 CommandCentral Aware Platform

The Command Central Aware Platform includes the Aware Mapping web application and Messaging Portal.

Command Central Aware Starter & Messaging w/ 6 Named Users	Amount
Year 1	Included
Year 2	Included
Year 3	\$8,440.00
Year 4	\$8,440.00
Year 5	\$8,440.00

^{*} Pricing Validity - Pricing is valid for 90 days from the date on this proposal.

APX NEXT Portable Radios