

Memorandum



Date: August 31, 2020

Agenda Item No. 8(F)(8)

To: Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners

From: Carlos A. Gimenez
Mayor

Resolution No. R-853-20

Subject: Request for Additional Expenditure Authority and Approval of Supplemental Agreement No.1 for Contract No. L-4400001195 Airport Security Communications

Recommendation

It is recommended that the Board of County Commissioners (Board) authorize additional expenditure authority and approve Supplemental Agreement No. 1 to *Contract No. L-4400001195, Airport Security Communications Maintenance Agreement* (Agreement) for the Miami-Dade Aviation Department (MDAD). Supplemental Agreement No. 1 augments the Agreement's original scope of services approved by the Board on February 7, 2017 via Resolution No. R-105-17. The Agreement was awarded to Certified Network Professionals, Inc. with an initial six-year term and two, two-year renewal options.

The original scope of services in the Agreement provides MDAD with the technical support and maintenance services needed to ensure the proper operation of the Airport Security Network (ASN) at Miami International Airport (MIA) and the General Aviation airports (GAA). The ASN provides direct communication between multiple systems critical to the security systems at MIA and the GAA including digital video, audio recording, building management, access control, and fire alarm and suppression systems. However, over the past two years, MIA's security requirements have evolved and become more complex requiring MDAD to expand and modify the existing integration and server environment, and to implement new technologies in order to keep up with infrastructure growth.

Supplemental Agreement No. 1 provides an advanced solution through the use of high-speed digital video, bi-directional audio, data transmission and gateway systems to facilitate the integration of media services throughout the County's airport system. Additional expenditure authority is needed to expand the scope of services to add 44 new locations to the ASN as part of MDAD's security network expansion efforts. These locations require the installation of 516 cameras and/or intercoms and 110 network switches.

This request for increased expenditure authority includes the integration of an additional 161 ASN locations within the term of this Agreement for the MDAD projects noted below. These projects, which are scheduled to begin in the near future, require the installation of 3,800 cameras and/or sensors and more than 300 network switches and workstations. It should be noted that the County was successful in negotiating discounted hourly rates for the addition of these new locations from \$125.00 per hour to \$112.50 per hour with periodic increases.

MDAD's Future Projects

1. MDAD plans on integrating 153 cameras in MIA's baggage claim areas to enhance security capabilities and reduce and deter baggage theft, as directed by the Board.
2. Implementation of MDAD's Capital Improvement Program (including MIA's Central Terminal Renovation) requires significant additional camera installations as projects arise.
3. As part of MDAD's ongoing initiative to transition from analog cameras to digital cameras, MDAD will replace approximately 2,200 analog cameras throughout the airport system with digital cameras.

4. Security initiatives sponsored by our Homeland Security federal partners such as U.S. Customs and Border Protection (CBP) and the Transportation Security Administration (TSA). One such project is TSA's Perimeter Intrusion Detection System, which will enhance MDAD's security capabilities along MIA's perimeter fence. The cameras, sensors, network devices and workstations installed as part of this project will be integrated into the ASN.

Approval of attached Supplemental Agreement No. 1 is in the best interest of the County as it will ensure uninterrupted availability of the ASN and prevent system downtime. If a new vendor is retained by the County, it would require the purchase of new equipment and associated software as well as the development of integrations and training, all of which would be cost prohibitive and could result in disruptions to the security operations throughout the County's airport system during the implementation phase.

Scope

Miami International Airport is located within District 6, which is represented by Commissioner Rebeca Sosa. However, the impact of this item is countywide, as Miami International Airport is a regional asset and this item includes MDAD's GAA airports as well.

Fiscal Impact/Funding Source

The initial six-year contract term expires on February 28, 2023 and has a current cumulative allocation of \$8,158,000. If the County chooses to exercise the two, two-year options to renew, the cumulative value will be \$14,469,000. If this request is approved, the modified contract value will be \$22,489,420 for the 10-year term.

Department	Existing Cumulative Allocation	Additional Allocation Requested	Modified Allocation	Funding Source	Contract Manager
Aviation	\$14,469,000	\$8,020,420	\$ 22,489,420	Proprietary Funds	Maurice Jenkins
Total	\$14,469,000	\$8,020,420	\$ 22,489,420		

Track Record/Monitor

Basia M. Pruna of the Internal Services Department is the Strategic Procurement Assistant Division Director.

Delegation Authority

The County Mayor or the Mayor's designee will have the authority to exercise all provisions of the contract, including any renewals or extensions, pursuant to Section 2-8.1 of the County Code and Implementing Order 3-38.

Awarded Vendor

Vendor	Principal Address	Local Address	Principal
Certified Network Professionals, Inc. (SBE)	1911 SW 179 Avenue Miramar, FL	4331 NW 22 Street Miami, FL	Orlando G. Suero

Due Diligence

Pursuant to Resolution No. R-187-12, due diligence was conducted in accordance with the Internal Services Department's Procurement Guidelines to determine contractor responsibility, including verifying corporate status and review of performance and compliance issues through various vendor responsibility lists. The lists referenced include convicted vendors, debarred vendors, delinquent contractors, suspended vendors, and federal excluded parties. There were no adverse findings relating to contractor responsibility.

Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners
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Applicable Ordinances and Contract Measures

- The two percent User Access Program (UAP) provision applies.
- The Small Business Enterprise measures did not apply.
- The Living Wage does not apply.

Attachment

A handwritten signature in black ink, appearing to read "J. Osterholt", written in a cursive style.

Jack Osterholt
Deputy Mayor



MEMORANDUM (Revised)

TO: Honorable Chairwoman Audrey M. Edmonson
and Members, Board of County Commissioners

DATE: August 31, 2020

FROM: Abigail Price-Williams
County Attorney

SUBJECT: Agenda Item No. 8(F)(8)

Please note any items checked.

- ☐ "3-Day Rule" for committees applicable if raised
- ☐ 6 weeks required between first reading and public hearing
- ☐ 4 weeks notification to municipal officials required prior to public hearing
- ☐ Decreases revenues or increases expenditures without balancing budget
- ☐ Budget required
- ☐ Statement of fiscal impact required
- ☐ Statement of social equity required
- ☐ Ordinance creating a new board requires detailed County Mayor's report for public hearing
- ☐ No committee review
- ☐ Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3)(h) or (4)(c) ____, or CDMP 9 vote requirement per 2-116.1(4)(c)(2) ____ to approve
- ☐ Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 8(F)(8)
8-31-20

RESOLUTION NO. R-853-20

RESOLUTION AUTHORIZING ADDITIONAL PURCHASING AND EXPENDITURE AUTHORITY AND EXECUTION OF SUPPLEMENTAL AGREEMENT NO. 1 AS A LEGACY PURCHASE WITH CERTIFIED NETWORK PROFESSIONALS, INC. IN AN AMOUNT UP TO \$8,020,420.00 FOR A MODIFIED TOTAL CONTRACT AWARD OF \$22,489,420.00 FOR LEGACY PURCHASE CONTRACT NO. L-4400001195 FOR THE PURCHASE OF AIRPORT SECURITY COMMUNICATIONS MAINTENANCE AGREEMENT FOR THE MIAMI-DADE AVIATION DEPARTMENT; AND AUTHORIZING THE COUNTY MAYOR OR COUNTY MAYOR'S DESIGNEE TO EXERCISE ALL PROVISIONS OF THE CONTRACT, INCLUDING ANY RENEWALS OR EXTENSIONS, PURSUANT TO SECTION 2-8.1 OF THE COUNTY CODE AND IMPLEMENTING ORDER 3-38

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that:

Section 1. This Board authorizes additional purchasing and expenditure authority and execution of Supplemental Agreement No. 1 as a legacy purchase with Certified Network Professionals, Inc. in an amount up to \$8,020,420.00 for a modified total contract award of \$22,489,420.00 for Legacy Purchase Contract No. L-4400001195 for the purchase of Airport Security Communications Maintenance Agreement for the Miami-Dade Aviation Department in substantially the form attached hereto and made a part hereof.

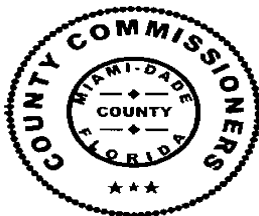
Section 2. This Board authorizes the County Mayor or County Mayor's designee to exercise all provisions of Contract No. L-4400001195, including any renewals or extensions, pursuant to Section 2-8.1 of the Code of Miami-Dade County, Florida and Implementing Order 3-

38. A copy of the complete set of contract of documents are on file with and available upon request from the Internal Services Department, Strategic Procurement Division.

The foregoing resolution was offered by Commissioner **Joe A. Martinez**, who moved its adoption. The motion was seconded by Commissioner **Audrey M. Edmonson** and upon being put to a vote, the vote was as follows:

Audrey M. Edmonson, Chairwoman	aye
Rebeca Sosa, Vice Chairwoman	aye
Esteban L. Bovo, Jr.	aye
Jose "Pepe" Diaz	aye
Eileen Higgins	aye
Joe A. Martinez	aye
Dennis C. Moss	aye
Xavier L. Suarez	aye
Daniella Levine Cava	aye
Sally A. Heyman	aye
Barbara J. Jordan	nay
Jean Monestime	nay
Sen. Javier D. Souto	aye

The Chairperson thereupon declared the resolution duly passed and adopted this 31st day of August, 2020. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this Resolution and the filing of this approval with the Clerk of the Board.



MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

Melissa Adames

By: _____

Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Oren Rosenthal

SUPPLEMENTAL AGREEMENT NO. 1

Contract Number: L4400001195

Contract Title: Airport Security Communications
Contractor: Certified Network Professionals Inc.
15757 Pines Blvd., Suite 273
Pembroke Pines, Florida 33027

In accordance with the above referenced Agreement, this supplement when properly executed becomes a part of the Agreement, effective upon execution.

Miami-Dade County ("County") and Certified Network Professionals Inc. ("Contractor") hereby agree that the referenced agreement L4400001195 ("Contract") shall be amended to reflect the following changes. Information that has been added has been underlined and the information that has been deleted is struck through.

1. The Original Agreement shall be amended to add language in Appendix "A", Section 1.4 "Security System Integration,"
2. The Original Agreement shall be amended to add language in Appendix "A", Section 1.7 "Camera and UPS Hardware Support,"
3. The Original Agreement shall be amended to add locations to the list in Appendix "A", Section 2.1 "Scope of Services,"
4. The Original Agreement shall be amended to replace the pricing schedule to Appendix "B", Payment Schedule Maintenance Services,
5. The Original Agreement shall be amended to add and replace language to Exhibit "D", DVTS Hardware Inventory and Software Applications,
6. The Original Agreement shall be amended to add and replace language to Exhibit "E", DVADTS Hardware Inventory,
7. The Original Agreement shall be amended to add and replace language to Exhibit "F", Camera and UPS Hardware Inventory,

All terms, covenants and conditions of the original Contract and any supplemental agreements issued thereto shall remain in full force and effect, except to the extent herein amended.

IN WITNESS WHEREOF, the parties have executed this Supplemental Agreement to County Contract No. L4400001195.

Certified Network Professionals, Inc.

Miami-Dade County

By: [Signature]

By: _____

Name: ORLANDO G. SUEROName: Carlos A. GimenezTitle: PRESIDENTTitle: MayorDate: 9/13/2019

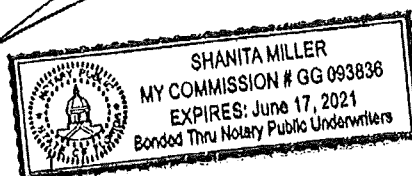
Date: _____

Attest: [Signature]
Corporate Secretary/Notary

Attest: _____

Clerk of the Board

Corporate Seal/Notary

Approved as to form
and legal sufficiency[Signature]
Assistant County Attorney

Appendix A – Scope of Services

1.0 SUMMARY

Miami-Dade Aviation Department (MDAD) is responsible for the operation of Miami International Airport (MIA). These responsibilities include but are not limited to aviation operations, airport construction, security, food and retail concessions, and general aviation. In an effort to fulfill security duties, MDAD has requested a Scope of work for site operations, maintenance, and extending warranties for the Airport Security Network ("ASN") systems, as well as continuing support of the Security System Integration. Work will include daily "on-site" support, 24x7x365 "on-call" support, preventative maintenance activities, and extended warranties for the equipment to ensure proper functionality. Tier 1, Tier 2 and Tier 3 level of support as defined in Article 6 Support and Maintenance Services will be provided for all systems by or through Certified Network Professionals, Inc. ("Service Provider").

1.1 SYSTEM COMPONENT OVERVIEW

The Airport Security Network is a fully integrated security solution that utilizes high-speed digital video, bi-directional audio, and data transmission and gateway systems to seamlessly incorporate media services into the MIA access control platform.

1.2 DIGITAL VIDEO TRANSPORT SYSTEM (DVTS)

The Airport Security Network is a fully integrated security solution that utilizes high-speed digital video, bi-directional audio, and data transmission and gateway systems to seamlessly incorporate media services into the MIA access control platform.

1.3 DIGITAL VIDEO, AUDIO, AND DATA TRANSPORT SYSTEM (DVADTS)

The Digital Video, Audio, and Data Transport System (DVADTS) is a high-capacity MPLS network that provides dynamic, transparent virtual networks with support for traffic engineering to address the stringent requirements of the ASN. Juniper Networks is the manufacturer of the hardware and software being utilized at Miami International Airport for the ASN. The Juniper MX and EX product lines are used to provide the latest MPLS functionality, scalability for future expansion, and low latency transport for all other ASN systems.

1.4 SECURITY SYSTEM INTEGRATION

The Security System Integration at MIA is a proprietary solution built specifically for the functionality required by Miami Dade Aviation Department. The integration includes software development that has been tailored to MDAD Security Specifications. This customization provides seamless communications between the subsystems defined in this section, as well as the integration with the Access Control System (ACS) and Digital Video Recording System (DVRs). All systems are integrated through customized API (application program interface) files to allow integrated and non-integrated applications to run on one single Security Operator Work Station (SOW). The Service Provider must have the special knowledge required of the customized integration to provide the current services and certify all versions of the Security System Integration.

In addition to the API integration between all the subsystems described here, all servers controlling each component has been moved to a virtual server platform to increase reliability, performance, and resiliency of each system. The Service Provider will be responsible to provide the professional services required to maintain this platform and coordinate any support issues with the associated vendor on behalf of the ABSM.

1.5 DIGITAL VIDEO TRANSPORT SYSTEM (DVTS) ONSITE SUPPORT

Service Provider will provide Tier 1, Tier 2, Tier 3, warranty support, and be responsible for the system hardware and software listed in Exhibit "D". This will include day-to-day services as well as troubleshooting, break/fix service, firmware, code, and patches that address known issues. Installation of equipment that is not part of a break/fix issue is considered a MAC. In addition to the firmware and code on the switches the Service Provider is responsible for the hardware and software applications listed in Exhibit "D". Software Applications will be supported to the extent that it is functional as to the latest MIA certified version.

System Warranty on the CellStack Database/Manager/Gateway software includes integration testing with all sub-systems that are part of the current ASN. Any additions or changes to the aforementioned hardware or software applications other than bug fixes or update releases is considered outside of the System Warranty scope and is viewed as a MAC (move/add/change). Any addition or deletions with the exception of user/database management of systems will be done as a MAC and will have warranty pricing to include the additional scope into this extended warranty.

1.6 DIGITAL VIDEO, AUDIO, AND DATA TRANSPORT SYSTEM (DVADTS) ONSITE SUPPORT

System Service Provider will provide Tier 1, Tier 2, Tier 3, warranty support, and be responsible for the DVADTS consisting of Juniper Network hardware. This will include day-to-day services as well as troubleshooting, break/fix service, firmware, code, and patches that address known issues. Installation of equipment that is not part of a break/fix issue is considered a MAC. In addition to the firmware and code on the switches the System Warranty provider is responsible for the hardware listed in Exhibit "E".

Any additions or changes to the aforementioned hardware or software applications other than bug fixes or update releases is considered outside of the System Warranty scope and is viewed as a MAC (move/add/change). Any addition or deletions with the exception of user/database management of systems will be done as a MAC and will have warranty pricing to include the additional scope into this extended warranty.

1.7 VIRTUAL SERVER PLATFORM, MOXA, CAMERA, AND UPS SUPPORT

System Service Provider will provide Tier 1, Tier 2, Tier 3, support as defined in Article 7 Support and Maintenance Services for the system hardware noted below. This will include day-to-day services as well as troubleshooting, break/fix service, firmware, code, and patches that address known issues. Installation of equipment that is not part of a break/fix issue is considered a MAC. The System Warranty provider is responsible for the support services of the hardware listed in Exhibit "F". The System Service Provider will only be responsible for the labor services related to the hardware listed in Exhibit "F". MDAD will be responsible for the hardware cost of any replacement parts related to cameras and UPS hardware listed in Exhibit "F". Any additions or changes to the aforementioned hardware or software applications other than bug fixes or update

releases is considered outside of the System Warranty scope and is viewed as a MAC (move/add/change). Any addition or deletions with the exception of user/database management of systems will be done as a MAC and will have warranty pricing to include the additional scope into this extended warranty.

In case of a HIGH priority (P1) emergency response, Service Provide will receive a work order number from the Airport Building Systems Manager ("ABSM") as a notice to proceed with repair services. In the case of LOW priority (P2) support, Service Provider will submit a written proposal to the ABSM for approval. Upon written acceptance, Service Provider will commence repair services.

2.0 SERVICE DESCRIPTION

2.1 SCOPE OF SERVICES

The scope of this agreement is limited to equipment and software described in this document and locations listed below.

SER#1 (A3820)	E1316	Bldg. 5A	<u>N3037</u>
SER#2 (A3129)	B3030 (Integration Facility)	Bldg. 100	<u>N1079</u>
SER#3 (A3105)	B3030 (B203)	E2089	<u>N1115</u>
SER#4 (B3192)	Police Station (PS214)	F3445	<u>Bldg. 742</u>
SER#5 (C4121)	Heliport (7 th Floor)	G3325	<u>Bldg. 805</u>
SER#6 (D3917)	Finger Print (Flamingo)	H3003	<u>Bldg. 719 (CCC)</u>
SER#7 (D3078)	Garage, 1 st floor	J2218	<u>Cargo Chiller Plant</u>
SER#8 (D3084)	SOW & OWS locations	N1038	<u>E1049</u>
SER#9 (E1502/3)	E1316	N1054	<u>E2466</u>
SER#10 (E1803)	CCE OCR	N2026	<u>E2826</u>
SER#11 (S1558)	North Side Fire	N2034	<u>E9490</u>
SER#12 (F1540)	Video Shop	N2048	<u>F1153</u>
SER#13 (F1770)	GAS Facility	<u>N2001</u>	<u>G1041</u>
SER#14 (G1107)	Midfield Fire	<u>N1124</u>	
SER#15 (G1764)	B3047 Fuel Farm	<u>N2004</u>	
SER#16 (H1472)	Central Control Plaza	<u>N2030</u>	
SER#18 (J1B25)	Landside Ops	<u>N2064</u>	
SER#19 (J3038)	Opa Locka Airport		
<u>Bldg. 3095</u>	<u>H0104</u>	<u>J5029</u>	
<u>Bldg. 3140</u>	<u>H0105</u>	<u>J6001</u>	
<u>Bldg. 700</u>	<u>H0214</u>	<u>N1010</u>	
<u>Bldg. 701</u>	<u>H1058</u>	<u>N1020</u>	
<u>Bldg. 702</u>	<u>H1604</u>	<u>N1033</u>	
<u>Bldg. 706</u>	<u>H1640</u>	<u>N1046</u>	
<u>Bldg. 707</u>	<u>J1012</u>	<u>N1048</u>	
<u>Bldg. 708</u>	<u>J1146</u>	<u>N1051</u>	
<u>Bldg. 709</u>	<u>N1079</u>		

APPENDIX B – PAYMENT SCHEDULE MAINTENANCE SERVICES

1. Annual Pricing Schedule

Pricing Schedule			
Coverage Period		Yearly	Monthly
Original Term	Year 1	\$1,006,752	\$83,896
	Year 2	\$1,177,356	\$98,113
	Year 3	\$1,212,684	\$101,057
	Year 4	\$1,773,744 1,249,056	\$147,812 104,088
	Year 5	\$1,826,964 1,286,532	\$152,247 107,211
	Year 6	\$1,881,768 1,325,124	\$156,814 110,427
OTR 1	Year 7	\$1,938,228 1,364,880	\$161,519 113,740
	Year 8	\$1,996,368 1,405,824	\$166,364 117,152
OTR 2	Year 9	\$2,056,260 1,448,004	\$171,355 120,667
	Year 10	\$2,117,952 1,491,444	\$176,496 124,287

2. Optional MAC Hourly Ceiling Rate

All MAC's and additional work will be quoted to MDAD using Service Provider standard rate of \$125 per hour.

3. Additional Optional Items

The equipment list below represents the standard MDAD pricing for hardware presently deployed at the Miami International Airport under this agreement. Prices will remain unchanged throughout the term of the contract, unless initiated by the original equipment manufacturer. If a change in price occurs, the ABSM must be notified within 30 days of such change.

Manufacturer	Platform	Part Number	Description	Price
Juniper	MX80	MX80-AC-B	MX80 chassis with 2 MIC slots, 4x10GE XFP built-in ports, AC power supply, Fan Tray w/Filter, JunOS	\$33,600
Juniper	MX80	MIC-3D-2XGE-XFP	2x10G MIC for MX, requires optics sold separately	\$6,000
Juniper	MX80	PWR-MX80-AC-S	MX80 AC Power Supply	\$1,200
Juniper	MX80	XFP-10G-L-OC192-SR1	Dual Rate 10G pluggable transceiver for 10GE and OC192, 1310nm for 10Km transmission.	\$2,304
Juniper	MX80	XFP-10G-S	10GE pluggable transceiver, 850nm for 300m transmission	\$1,440
Juniper	MX80	CBL-JX-PWR-US	Power Cable, REGION: US. - Spare - Type B, NEMA 5-15 (North American 15A/125V grounded)	\$24

**EXHIBIT "D": DIGITAL VIDEO TRANSPORT SYSTEM (DVTS) – HARDWARE INVENTORY
AND SOFTWARE APPLICATIONS**

Hardware CellStack Video/Audio Equipment and Quantity:

- o Centauri 14-slot Chassis – 65
- o Centauri AC Power Supply – 65
- o Centauri CNTRL-IP Modules – 130
- o MJPEG TX-4 Video Card – 396
- o High Density Audio Card – 130
- o Expansion REU – 65

Hardware EMCOM Audio Equipment and VoIP System:

Audio Interface Mixer Model 844 – Qty. 49 52
Intercom Model 842 – Qty. 4445- 1231
EmVista Central (2 servers)
EmVista Maintenance (1 server)
EmVista Agent Client (30 clients)

Software Applications:

- o CellStack Operator 6.5 (30 clients)
- o CellStack Manager 6.5 (1 server)
- o CellStack Vision+ software (30 clients)
- o CellStack Gateway (1 server)
- o Customized NSS Application

**EXHIBIT "E": DIGITAL VIDEO, AUDIO, AND DATA TRANSPORT SYSTEM (DVADTS) –
HARDWARE INVENTORY****Hardware Juniper Network Equipment and Quantity:**

- Redundant EX8208 system bundle: 8-slot chassis with passive backplane - Qty. 4
- 8-port 10GbE SFP+ line card; requires SFP+ optics sold separately - Qty. 10
- MX80 chassis with 2 MIC slots, 4x10GE XFP built-in ports - Qty. 4
- 2x10G MIC for MX, requires optics sold separately - Qty. 4
- EX4200, 24-port 10/100/1000BaseT with Dual PS - Qty. 42 47
- EX4200, 48-port 10/100/1000BaseT with Dual PS - Qty. 46 24
- EX4200, 24-port 1000BaseX SFP with Dual PS - Qty. 7 8
- EX4200 2-Port 10G SFP+ / 4-port 1G SFP Uplink Module - Qty. 54 66
- EX4300, 24-port 10/100/1000BaseT with Dual PS - Qty. 14
- EX4300, 48-port 10/100/1000BaseT with Dual PS - Qty. 7 18
- EX4300, 32-port 1000BaseX SFP with Dual PS - Qty. 8
- EX4300, 4-Port 10G SFP+ Uplink Module – Qty. 7 40
- EX4550, 32-Port 1/10G SFP+ Converged Switch – Qty. 8
- EX2200-C, 12-Port 10/100/1000BaseT Switch – Qty. 23
- EX2200, 24-Port 10/100/1000BaseT Switch – Qty. 2

EXHIBIT "F": VIRTUAL SERVER PLATFORM, MOXA, CAMERA, AND UPS
HARDWARE INVENTORY

Hardware Equipment and Quantity:

- Analog Cameras – Qty. 2200-2400
- IP Cameras – Qty. 400 700
- Uninterrupted Power Supplies (UPS) – Qty. 200-251
- Virtual Server platform for ASN Subsystems – Qty. 3
- MOXA Industrial Hardened Switch – Qty. 30