

**ADVANCED TRAFFIC MANAGEMENT SYSTEM**  
**RFP No. 16201-FY17-06**  
**Addendum #3**  
**October 21, 2016**

**Exhibit 4 has been revised and must be used in the proposal submittal. Exhibit 4 is being provided in both Word and Excel formats as attachments to this addendum.**

**Questions and Answers:**

**Question 1:** May I request a schematic that shows the current communications infrastructure of the Town?

**Answer 1:** A schematic is not available. For information about the current communications infrastructure, please see:

- Page 3, Item 2 Background; and
- Pages 4-5, Item 4 Scope of Work, specifically Communications System Upgrade

**Question 2:** Does the 40 page limit also include the Functional Requirements Matrix?

**Answer 2:** Yes.

**Question 3:** Is the 40 page limit for double sided pages? Meaning a total of 80 pages?

**Answer 3:** No – the 40 page limit is for single-sided pages, or 20 double-sided pages, with the exception of Section G – Catalogue Cuts, which are excluded from the page limits.

**Question 4:** Exhibit 4 of the Advanced Traffic Management System RFP (RFP No. 16201-FY17-06) has two line items for laptops:

- Item 10: Field Laptop with CSS software, Quantity of 2
- Item 16: Rugged Field Laptop, Quantity of 1

However, Exhibit 2 only includes one set of requirements for Field Laptop (#20, lines 20.1 through 20.11). Please clarify whether Items 10 and 16 of Exhibit 4 should both meet the requirements of Exhibit 2, #20 – Field Laptop.

**Answer 4:** Exhibit 4 has been revised to remove Item 16. Item 10 has been changed to “Rugged Field Laptop with CSS software, Quantity of 2”. A revised Exhibit 4 is attached and must be used in the proposal submittal.

**Question 5:** Will the Town of Leesburg consider a battery backup system that is approved and used by VDOT and many state agencies that uses “line interactive” technology rather than “power conditioning”?

**Answer 5:** No, power conditioning only.

**Question 6:** Is it the intent in the RFP for the Offeror to replace all of the existing switches, routers, etc., in the traffic control cabinets and existing central ATMS facilities? Please clarify what is to be replaced, and what is to be preserved of the existing communications

plant.

**Answer 6: The existing central ATMS equipment shall remain as well as any existing compatible switches/routers.**

**Question 7:** Will the Town of Leesburg provide a communications diagram of the existing communications infrastructure and layout?

- a. Is it possible to identify by Manufacturer and model number all routers, switches, and other network/communications equipment currently used in traffic controllers, masters, and at the central traffic management facilities?
- b. Is the network/communications plant used by the current traffic management system dedicated exclusively to the traffic management system and isolated from any larger enterprise (or business) LAN that the Town of Leesburg may have in place; or has it already been integrated with the Town's enterprise LAN to some degree?
  - i. If the traffic management communications plant is a dedicated or isolated system, is there any intent, as part of this project, for the Offeror to integrate the traffic management system communications facilities with the Town of Leesburg's enterprise LAN?
  - ii. If the two systems (Town of Leesburg enterprise LAN and Traffic Management LAN/communications plant) are integrated already to some extent, can a diagram of the interfaces between the traffic management LAN and communications subsystems and the larger Town of Leesburg enterprise LAN be provided?
- c. Can the Town of Leesburg identify what providers supply the various leased-line/leased fiber, the type of service provided at each location (MPLS, dial-up, DSL, ISDN, "CATV" Broadband Ethernet, telco "POTS" service, etc.), and the equipment by Manufacturer and Model number used with those circuits in each cabinet and at central?

**Answer 7: A communications diagram of the existing communications infrastructure and layout if not available (see Question 1).**

- a) **GDI serial FLD2 modems, KUSA KY-CSV170EM Layer 2 Switch.**
- b) **The current traffic management system network/communications plant is integrated with its own subnet.**
  - i) **No.**
  - ii) **The interface is Cisco Nexus 9000 from TOC to Cisco Nexus 9000 server room a with 20gig trunk.**
- c) **Verizon POTS and Comcast dark fiber, GDI FLD2, US Robotic 57k.**

**Question 8:** During implementation and the following support phases of the project, will the Offeror be permitted to have remote access via broadband into the Offeror's system?

**Answer 8: Yes.**

**Question 9:** Will the Town of Leesburg consider alternative proposals to dial up such as vDSL, 4G cellular, etc?

**Answer 9: Due to continuing cost constraints, where applicable, town-owned fiber will be installed as funding and development is available.**

**Question 10:** On Page 4, Scope of Work, please clarify what is meant by the requirement that the proposed solution shall “Support IP/Ethernet protocols over ... dial-up serial.” Dial-up serial circuits (54kbps typical) cannot support anywhere near the bandwidth that is required to support applications (e.g. NTCIP compliant implementations) that are designed to use and require use of high bandwidth hardware and communications systems built to handle IP/Ethernet protocols (10 MB typical/minimum). Is it a requirement that Ethernet IP packets actually will be conveyed over the “dial-up” circuits, even given the severe performance impacts that will result from trying to send typical Ethernet packets of over a circuit of such limited bandwidth?

**Answer 10: On Page 4, Scope of Work,” Support IP/Ethernet protocols over ... dial-up serial” should be “Support IP/Ethernet protocols over leased and Town owned fiber and serial communications over dial-up POTS”.**

**Question 11:** Does the Layer 3 switch need to be environmentally hardened?

**Answer 11: Yes.**

**Question 12:** Where does the agency expect the specified Layer 3 switches to be installed? At the central office, or in select field locations, or everywhere?

**Answer 12: The switches will be installed at select field location(s).**

**Question 13:** Is there any expectation for the Layer 3 switch to provide security functionality outside of encrypted management (SSH, HTTPS, SFTP) and ACLs?

**Answer 13: No.**

**Question 14:** Is the Layer 3 switch expected to be DIN Rail mounted, or will a rack mounted solution be accepted?

**Answer 14: Rack mounted, router can be either.**

**Question 15:** Is the Town of Leesburg leasing dark fiber or shared connections?

**Answer 15: The Town leases dark fiber.**

**Question 16:** With reference to the Offeror obtaining the timing and configuration data in the existing Peek controllers, will complete information be available for all intersections via printed reports, “PDF” files, etc. obtainable via the existing CLMATS system?

- a. Will the Town assemble that information for the Offeror, or will the Offeror be permitted to run the reports, export files, etc. from the existing CLMATS system?
- b. Are phasing diagrams, or construction plans that show current phasing for each intersection for the purpose of configuring intersection graphics?
- c. If neither of the above is available, please describe what is available, and how the Offeror will be expected to gather this information.

**Answer 16: The Town will supply pdf files per intersection, manual extraction shall be needed if the CLMATS database is corrupted or missing items. Intersection drawings will be available as needed.**

**Question 17:** Does the completed Functional Requirements Matrix (i.e., Exhibit 2, which is 15 pages) count against the 40-page limit?

**Answer 17: Yes. (see answer to Question 2).**

**Question 18:** Please clarify the number of intersections to be integrated and the communications type.

**Answer 18: 59 intersections, 50 with fiber and 9 with POTS dial-up.**

**Question 19:** Please clarify whether the requirements for Exhibit 4, Item 5 – Communication switch/router are included in 16.a (16.1a through 16.9a) Communication Upgrade (System Technology Requirements) on page 27.

**Answer 19: Requirements are covered under section 16.a through 16.b, pages 27 & 28 for both switches and routers.**

**Question 20:** It appears that Exhibit 4, Price Proposal is missing a line item that would correspond with the requirements of 16.b (16.1b through 16.6b). Please clarify whether another pay item will be added to Exhibit 4 for this specified switch/router.

**Answer 20: Exhibit 4 has been revised to add item # 19, Layer 3 Router, quantity 3. A revised Exhibit 4 is attached and must be used in the proposal submittal.**

**Question 21:** For the SFPs, what are the anticipated fiber distances?

**Answer 21: 20km for 1310nm and 550m for 850, maximum.**

**Question 22:** Is there a reason why the town is bidding for a ATC cabinet?

**Answer 22: Future migration.**

**Question 23:** What is the value the town sees in the ATC cabinet?

**Answer 23: Future migration to ATC platform.**

**Question 24:** Are there any specific intersections within Leesburg that would require the ATC cabinet and can you tell us why this is needed?

**Answer 24: No, future migration, safety uniformity (future).**

**Question 25:** Are you wanting the low voltage version of the ATC Cabinet or the high voltage version?

**Answer 25: High voltage.**

**Question 26:** If you are looking for low voltage [ATC cabinet], are you going to replace all of the LED signal with low voltage LEDs?

**Answer 26: When future LED development and cost permits.**

**Question 27:** Are you aware that there is no approved standard or specification for the ATC cabinet and that by using it you are not going to have NEMA to fall back on?

**Answer 27: Yes.**

**Question 28:** Are you aware that there is only one supplier of the plug in components for the cabinet and as such that might affect future pricing?

**Answer 28:** Yes.

**Question 29:** Please clarify the requirements of 16.c in Exhibit 2. Can the Town provide a recommendation for a product that meets this requirement?

**Answer 29:** The Town cannot make a recommendation for this product. Clarification: power supply shall meet functional requirements of 16.c as well as, installation into existing detector racks, 2 channel wide maximum.

**Requirement for 16.5 shall mean 2 positions, 4 channel wide slots, for power supply and Ethernet switch.**

**END OF ADDENDUM #3**

OFFEROR MUST RETURN THIS FORM WITH PROPOSAL  
REVISED 10/21/16

**Exhibit 4  
Price Proposal**

Item	Description	Quantity	Unit	Unit Price	Total
1	Central Hardware / Server(s)	1	LS		
2	Central System Software	1	LS		
3	ATC controller	70	Each		
4	ATC software	70	Each		
5	Communication switch/router	36	Each		
6	Small Form-Factor Pluggable (SFP) 1310 nm	32	Each		
7	Small Form-Factor Pluggable (SFP) 850 nm	50	Each		
8	Rack Power supply	32	Each		
9	Rack Power supply with 2 position rack	17	Each		
10	Rugged Field Laptop with CSS software	2	Each		
11	MMU	70	Each		
12	ATCi cabinet with UPS	2	Each		
13	55" Flat Screen System Monitor with Wall Mount	1	Each		
14	PCMT8000 Monitor tester with TS1, TS2 Cables	1	Each		
15	TS1 Suit Case Tester	1	Each		
16	DELETED	3	Each		
17	Annual Maintenance / License	1	LS		
18	Dial-up modem for serial communications	8	Each		
19	Layer 3 Router	3	Each		
<b>SUB-TOTAL</b>					

**Central System Software Add-On Modules (Optional):**

Item	Name & Description	Quantity	Unit	Unit Price	Total
A			Each		
B			Each		
C			Each		
D			Each		
<b>SUB-TOTAL</b>					

<b>GRAND TOTAL</b>					
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