

## ADDENDUM NO. 5

DATE: November 22, 2016

TO: All Potential Proposers

FROM:  Boyce H. Evans, Purchasing Agent

SUBJECT: Addendum No. 5 – RFP Replacement of Bus Video System

BIDS TO BE OPENED: December 2, 2016, at 11:00:00 a.m. Eastern Time

This addendum is being published to respond to questions asked by potential proposers regarding the above-referenced Request for Proposals. This addendum becomes a part of the Contract Document and modifies the original specifications as noted.

**Question 1:** Under Technical Specification Phase I, line item 3 states: “ The system must support up to eight (8) IP based, high definition camera inputs with an optional video encoder to support analog cameras.” How many analog cameras need to be supported? How many analog cameras and IP cameras will be used simultaneously?

Response: KAT’s intent is for the awarded contractor to provide a high resolution digital solution. There is no plan to utilize analog cameras.

**Question 2:** Under Section B. Cameras and Microphones, line item 1 states: “All cameras will utilize 48V power over Ethernet supplied from the recorder.” Does this specification include the analog cameras as well? If so, our analog cameras function at a much lower voltage which allows extended life of the camera. Is this acceptable?

Response: KAT does not intend to utilize analog cameras.

**Question 3:** The RFP states: “The newer buses are running the Safety Vision 7000, so the existing cameras and cabling to the cameras can possible stay in the bus which will allow the proposer to simply replace the recorder and the main power harness to the recorder.” How many buses are running the Safety Vision 7000? How many existing cameras per bus?

Response: Please refer to response to similar question in Addendum # 2.

**Question 4:** Under Section 4.1 Current Environment, the RFP states: “Please note the City I.T. infrastructure does not support streaming video on the City network. Thus, the proposed solution must include viewing or downloading on-board video on a non-networked workstation using an Internet Service Provider (ISP) such as Comcast or other qualified providers.” Is the city requesting the vendor to provide a cellular network to transfer video? In our experience transferring video over a cellular modem can be extremely costly and would recommend the city only utilize this option for a live look-in.

Response: KAT intends to download select video with audio footage based upon reported events while vehicles are in service. Downloading will normally occur when the vehicle is either at the transit center or garage. KAT also envisions infrequent circumstances where a live look-in will be required by road supervisors in a support vehicle or first responders. Proposers are encouraged to provide cost effective solutions while also considering Wi-Fi capability already available through Digi WR44R routers installed on fixed route buses and cutaways. Note no Digi WR44R routers are installed on any of the twenty-two para-transit vans.

**Question 5:** Under Technical Specification Phase III, line item 3 states: “The system will feature a built-in accelerometer” Will the City accept a system that utilized an external accelerometer?

Response: Yes, but the awarded proposer shall install after receiving approval from KAT’s Chief Maintenance Officer of their installation plan by vehicle type.

**Question 6:** Will The City please provide the information requested below:

Quantity Information (Storage/Server):

- a. Total number of units & total number of units daily expecting uploads (ex: 296 busses, xx% run daily)
- b. Expected daily run-time (ex: each unit records 30-40 events/min per day)
- c. Detail drawing of parking facility or lot
- d. Any current wireless frequencies in use today

Quality & Content (Storage/ Server)

- a. Video format and/or resolution (ex: 4CIF 704 x 480, 720p, 1080p)
- b. Frame Rate (ex: 15-30fps)
- c. Quality Selection (ex: High, Med & Low)

Physical Server (Server)

- a. Will the district be providing this? If not, Mount Type (ex: rack or tower)

Response:

Quantity Information (Storage/Server):

- a. Total peak bus/paratransit = 78 on weekdays, some running as many as 20 hours per day. Many operators routinely hit the save button throughout the day. Currently we have no

way to track an accurate total. Potentially every transit vehicle could have at least one downloadable event per day. Downloading only requested times and times when the save button is activated, there could be many vehicles with nothing marked for download. Any estimate of % of run daily would be purely speculative.

- b. Weekdays run 1021.50 hours per day.
- c. Provided in Addendum # 2.
- d. Provided in Addendum # 3.

Quality & Content (Storage/ Server)

- a. See response to question 9
- b. See response to question 9
- c. See response to question 9

Physical Server (Server)

- a. Addressed in Addendum # 3. The awarded proposer is to provide a rack mountable server.

**Question 7:** Please specify your intended purpose for the back-up camera:

Monitor and record the back-up camera's view from the rear of the vehicle

Monitor only, displaying only the back-up camera's view

Monitor all camera views and, when vehicle is in reverse, automatically switch to full-screen display of back-up camera's view

Other:

Response: This is only for the twenty-two para-transit vans and the primary use is for the drivers, however, all camera views must be maintained in the event of an accident.

**Question 8:** According to number 3 on page 8 of the RFP, "The system must support up to eight (8) IP based, high definition camera inputs with an optional video encoder to support analog cameras."

Is it your intent to utilize existing analog cameras?

Yes No

If yes, what is the make and model of the existing analog cameras?

Will you provide a wiring diagram of the connectors for the existing analog cameras?

Yes No

Response: See response to question 9

**Question 9:** According to number 4 on page 8 of the RFP, "The system must provide power over the Ethernet to high definition cameras directly with no additional hardware needed."

Is it your intent to utilize existing IP cameras?

Yes No

If yes, what is the brand and model of the existing IP cameras?

What type(s) of connectors do the existing IP cameras have?

Response: Responses to questions above where we wrote “see response to question 9” and any other questions regarding a server, connectivity, use of existing equipment, and resolution: The awarded proposer must provide a high definition, I.P. based camera system with audio. All equipment provided under the contract and any existing transit vehicle camera equipment the proposer chooses to utilize as a part of their proposal must provide a clear and crisp video and audio recording when viewed on any proposer provided server (if needed) and proposer provided computer workstation. The viewed video, on the workstation screen, must be a minimum resolution of 1920 X 1080 and a frame rate of at least 30 ips with no video freezing and skipping. The heavy-duty buses with SafetyVision 7000 Pro have SafetyVision GEN II I.P. based cameras utilizing CAT-5 cabling and the six newest low-floor cutaway vans have a mixture of SafetyVision GEN II and GEN III I.P. based cameras utilizing CAT-6 cabling. Three para-transit vans are outfitted with the SafetyVision 7000 Pro systems with Gen III cameras but CAT-5 cabling. Also, and to provide additional clarification, the following changes to the technical specifications are made as follows:

Clarification: Page 9, Line 32 is changed to read: .....with a resolution at a minimum of HD 1920 X 1080.....

Clarification: Page 10, Line 4 is changed to read: Camera resolution shall be HD 1920 X 1080 and a frame rate of 30 ips.

During Phase I and II, the awarded proposer must only provide the necessary equipment to record audio and video and the means to view KAT management selected high resolution video on a proposer provided computer. KAT employees will manually remove appropriate camera system media for placement into a proposer provided device that enables the computer workstation to view high resolution video (minimum HD 1920 X 1080 and 30 ips).

During phase III, the proposer must provide all additional equipment and connectivity to enable wireless downloading of management selected audio/video at the transit center and the Magnolia Avenue garage. As in phase I and II, video viewing will occur in the Manager of Safety and Training’s office at Magnolia Avenue. Additionally during phase III, the awarded proposer must provide the capability to perform a “live look” of activity on transit vehicles by a KAT road supervisor or first responder. No City or PBA connectivity, server, or equipment is available for any of these purposes with the exception of the following.

1. A two-post server rack with 6U available space in the Magnolia Avenue automation room (upstairs room dedicated to automation equipment).
2. A four-post server cabinet in PBA’s security office at the transit center with 9U of available space.
3. Cable space within underground conduit between the bus lot service building and the operations/maintenance facility at Magnolia Avenue.
4. Both AT&T and Comcast (Xfinity) provide carrier services at the transit center and Magnolia facility. Proposers may consider creating an account with one of these service providers as a means of providing connectivity.

5. Fixed route buses and cutaway vans have a Digi WR44R router with a multi-band 5 element (WiFi/GPS/LTE) antenna as components of the DR600 AVL system. This router, which was recently installed, currently enables wireless download of data to the bus/van DR600 when parked at the bus lot, GPS data broadcasting for AVL while on route, and passenger Wi-Fi within the bus/van. Cellular connectivity for this existing system is provided by Verizon. This system has additional available capacity for access point data downloading and cellular data. For more information on this system, contact Chris Cates, Clever Devices, 919.622.8505 or CCates@CleverDevices.com . If you plan on connectivity through the Digi WR44R router, you must do so utilizing an Ethernet connection. City Information Systems manages configuration of the WR44R router.

6. The twenty-two para-transit vans do not have the Digi WR44R router nor any other wireless system with exception of a portable tablet that ties in to EcoLane para-transit management system. There is no means to utilize this tablet system for anything other than EcoLane.

7. Note that installation of any wireless access points must be closely coordinated with City Information Systems.

**Question 10:** According to number 29 on page 9 of the RFP, “The bus has a limited space to install the system. Please confirm the system dimensions (minus cameras) do not exceed 12" x 4" x 14".” Will you accept a system of the following dimensions: 4.6 inches (height) x 9.4 inches (width) x 12.8 inches (depth)?

Response: This City will accept those dimensions.

**Question 11:** According to number 29 on page 9 of the RFP, “The system must be compatible with the facility-based system and allow for software interoperability between vehicle and facility systems.” Please describe the “facility based systems” and “software” to which you are referring, specifying each by brand and model. Facility based systems:

Response: The awarded contractor shall provide the facility based system. Proposers shall not plan on utilizing any existing computers nor networks provided by the City of Knoxville nor the Public Building Authority.

**Question 12: INSTALLATION**

- What hours are available for performing installations? Please check all that are permitted.
- Monday through Friday daytime hours of \_to
- After hours Monday through Friday
- Weekends
- Holidays

Response: Please see response to Addendum # 3, question # 3.

**Question 13:** Is disposal of the removed system required by the bidder?

Response: As stated in Section I (Statement of Intent), paragraph 1, “all removed bus camera equipment is to be provided to KAT’s maintenance department).

**Question 14:** Are we permitted to dispose of the removed systems in your supplied dumpster?

Response: See response above.

**Question 15:** Are we permitted to dispose of the installed systems' packing materials in your supplied dumpster?

Response: Yes.

**Question 16:** To help us provide the most accurate installation information, please provide the following: After the bid opening, what is the expected award date and after an award is made, how soon will a purchase order be issued?

Response: The City plans to make an award as soon as practical but cannot provide an anticipated date of award at this time because it depends on the number of quality proposals that we receive and the time it takes the City's evaluation committee to conduct its due diligence in evaluating said proposals, conducting demonstrations of the proposed products, and negotiating the terms of a contract. Once a contract is fully executed then it could take up to three weeks to award the subsequent purchase order.

**Question 17:** Which of the following is available from the agency to aid in the delivery of the equipment - at the location in which it will be delivered (Dock, pallet jack, forklift, etc.)?

Response: A pallet jack and forklift can be made available from the City

**Question 18:** Does the Agency have space to store the equipment awaiting the installation?

Response: Yes.

**Question 19:** Please provide the physical address(es) where the vehicles will be located for downloading the recorded events via Wi-Fi connection. (Add additional sites as needed.)

Response: Garage - 1135 Magnolia Avenue

**Question 20:** Is Wi-Fi required at this site?

Response: No. Wi-Fi is not required at this location.

**Question 21:** Where is "Site #2" and is Wi-Fi required at this site:

Response: Location is at the City's Transit Center located at 301 Church Avenue. No, this site currently has Wi-Fi.

**Question 22:** Are there any vehicles that do not park in one of the specified locations?

Response: No.

**Question 23:** Can you supply us with a detailed map of all sites showing the preferred placement for the access points?

Response: No.

**Question 24:** May we schedule a site visit?

Response: Yes.

**Question 25:** Do you have a current data plan in effect for use?

Response: Yes. The provider is Verizon.

**Question 26:** Do you want a data plan included in our pricing?

Response: No.

**Question 27:** If a cellular connection is required, do you have a preference between Sprint or Verizon as the service provider?

Response: Not applicable

**Question 28:** Will proposer be responsible for providing a server? \*Note: Client is responsible for the installation and connectivity of the server.

Response: The awarded proposer shall provide a rack mountable server. Additionally, the awarded proposer is responsible for installation and connectivity of all equipment, which also includes the server which will be placed in available space in existing racks/cabinets. The server and any related facility cabling installation must be coordinated with the Public Building Authority.

**Question 29:** Please provide the following information about your IT Department contact person and are we permitted to contact this person prior to bid opening to obtain clarity of your needs?

Response: The City will provide this information to the winning proposer at the appropriate time and “no,” there is to be no contact with anyone in the City except the Purchasing Division while this procurement is “in play,” so to speak.

**END OF ADDENDUM NO. 5**