

## 13563 Questions and Responses – Set Two

**Q1.** We would like to send through different options to consider. Do you want multiple envelopes or should we include the different options as different sections in the RFP response?

**A1.** Please see section 4.1.7 of the RFP

**Q2.** Section 3.4.1.9

3.4.1.9 .....TransSuite runs on servers located in the Iowa DOT's data center adjacent to the Traffic Operation Center. Connectivity between the TransSuite server and the Video Wall Server will be via Ethernet cables (provided by the successful bidder).

**A.)** Is the connectivity referring to the control of TransSuite Servers or does this refer to Server display will only be over Ethernet to the Video Wall Server? (meaning can control of your TransSuite be over Ethernet, but the servers output physically cabled (over DVI/HDMI/VGA) to input of the Video Wall Server?

**B.)** How many TransSuite Servers are there to support display 72 camera feeds?

**A2. A.)** The actual connectivity to the TransSuite servers will be via a network switch. At a minimum, TransSuite will be used to control (pan, tilt, zoom), display ATMS maps (showing locations of devices, traffic flow, and active events).

The camera video is provided via the Wowza video servers (either accessed thru TransSuite or directly from the Wowza server).

It is anticipated the video wall processor will access both the TransSuite and Wowza servers via Ethernet connection. The connection to the video wall monitors will be thru the video wall processor.

**B.)** TransSuite runs in a virtual server environment.

**Q3.** Section 3.6 Input and Output Terminals:

Question: Do you have a further detailed description of the 24 sources in the room to be displayed on the Video Wall server and quantity and connectivity type (DVI, HDMI, IP, VGA?)

**A3.** The requirement to provide output terminals for a minimum of 24 monitors refers to video wall monitors. The DOT anticipates the bidder's proposed solutions to meet the RFP requirements will propose a video wall of a maximum of 18 monitors. The requirement to provide outputs for a minimum of 24 monitors allows the option for future expansion of the video wall without replacing the processor. Please refer to the response to Question 13 of the PreBid Meeting Vendor Questions (Questions and Responses Set 1).

**Q4.** 3.8 Configuration Requirements:

Question: It is unclear from the bid regarding the requirements at the 9 Operator stations.

**A.)** DO the 9 Operators stations need to have access to all 24 sources in the system and full Keyboard and Mouse (KVM) of these sources at their individual station? Or are the 9 operator stations have fixed local sources that only need to be displayed on the video wall when

necessary and can be pushed to the wall by the operator....no sharing of source or KVM management needed between the 9 operators?

**B.)** How many local displays are at each operator station (Dual Screen, Triple screen, Quad or more?)

**A4. A.)** Section 3.8 requires full control of the video wall, as described in this RFP, from each operator workstation.

**B.)** There will be four (4) monitors at each TOC operator work station.

**Q5.** Question: I see no mention of any remote sources into this room or any requirement to control the wall outside the room or other city locations? Correct?

**A5.** There are no requirements to control the video wall from outside of the TOC.

**Q6.** Please clarify the project time table: The contract begins 6/8/2015. When does the DOT expect an operational wall with commissioning, training and signoff complete?

**A6.** The department would like to have the video wall operating in the Traffic Operations Center by October 1, 2015. However, the dates on the Procurement Timetable are estimated. The Department reserves the right to change the dates.

**Q7.** We want to verify that the video wall panels can be mounted to the plywood on the south wall in the Traffic Control Center and not mounted necessarily on a Free Standing Video Wall Structure as indicated on Appendix E of the RFP. Is this assumption correct?

**A7.** The south wall of the TOC was not designed to support the weight of the monitors. If a proposal to mount the monitors directly to the wall is to be considered, the bidder will be responsible address all possible issues concerning that proposal, including but not limited to:

- a structural analysis of the wall with the proposed loading (conducted by a licensed engineer)
- a plan for structural reinforcements (if necessary)
- plans to provide for other needs (such as ventilation, electrical service, etc.)

**Q8.** The drawing of the Proposed Video Wall - Appendix E instructs shows laminated panels with acoustical fabric panels filling the space below the bottom of the video wall. It is our assumption that we are to respond with a price for delivery and installation of this requirement.

**A8.** The price to procure, deliver and install the panels are to be included in the lump sum bid for Item 1, Video Wall Hardware (refer to RFP Section 3.13.1).

**Q9.** Above the wall the drawing shows that there is 4 feet of Drywall, not listed as Existing Drywall. Are we to assume that this is also part of the project scope which we would be responsible for? If this is a responsibility of the vender, will the drywall be mounted directly to the front wall or will the requirement for the drywall to be installed off of the back wall as part of the total enclosure of the flat panels?

- A9.** While the drywall shown above the video in Appendix E was not noted as existing, it does exist. The Video Wall Vendor is not responsible for this drywall.
- Q10.** Would you please provide a copy of your tax exempt certificate?
- A10.** This will be provided to the bidder that is awarded the contract.
- Q11.** Will you please clarify if we can bill and be paid for equipment upon delivery?
- A11.** All payments will be as described in RFP Section 3.14, Payment Terms.
- Q12.** Will you please confirm the number of Operators within the TMC?
- A12.** There are eight operator workstations locations in the TOC. A computer workstation will be located at each of these locations and one "hot" spare will be located on sight (thus the reference to 9 workstations).
- Q13.** Will you please confirm the quantity and location of the Operator computer workstations?
- A13.** Please refer the response to Question 12 (Q12) and Appendix A – Traffic Operations Center (TOC) Room Layout.
- Q14.** Will you please confirm the quantity and type of outputs per Operator computer workstation?
- A14.** Each computer workstation has three (3) display ports, one (1) HDMI port and one (1) DVI port. Any four (4) of these ports can be used simultaneously. Presently, the DOT plans to use all four available ports for the four monitors at each workstation.
- Q15.** How many independent cable/satellite TV inputs are required to the video wall processor?
- A15.** This has yet to be determined. It is not anticipated to exceed 3 independent cable/satellite TV inputs.
- Q16.** Section 3.4.1.9
- A.) If the video wall processor natively runs Windows 7, can the ATMS software be installed as an application on the processor? What are the Software Suites requirements for a PC?
- B.) It is mentioned that connectivity between the TransSuite server and the Video Wall server will be via Ethernet cables. Can you please elaborate on this connectivity and the intention? Is this connection over the Iowa DOT LAN?
- A16.** A.) While it is possible to install the ATMS software as an application on the video wall processor, it is preferable to provide the ATMS access and control via connection directly to the ATMS server.
- B.) It is a direct Ethernet connection, thru a DOT ITS network switch, to the TransSuite server. The intention is to allow control of cameras within the video wall system.

**Q17.** Section 3.4.6

If we were to provide Iowa DOT with the electrical specifications, would IOWA DOT be open to the possibility to have their own licensed electrician run the power and install the electrical connections needed to power the display wall and pull the necessary permits?

**A17.** No.

**Q18.** Section 3.5.5

While a documented API can be provided, who is responsible for creating the interface and programming the commands for this function?

**A18.** The Video Wall Vendor.

**Q19.** Section 3.5.6

Please list all types of signals and quantities that will need to be supported. For example qty X VGA 1600x1200, qty X HDMI 1080 P HDCP compliant, qty X DVI workstations, etc.

**A19.** Those specific inputs have not been completely defined. The bidder shall include in their proposal all of the visual inputs their proposed solution supports.

**Q20.** Section 3.6

Please provide more detail in the input terminal requirements. Please include all types, quantities, and locations of signals to be supported by these terminals.

**A20.** Those details are included in Section 3.6.

**Q21.** Section 3.7.1

How many analog and digital video and of what signal type? Example: composite video, RGBHV, HDMI, IP Streams, etc.

**A21.** The digital video is H.264 video.

**Q22.** Section 3.7.5

The video wall processor is capable of defining and recalling layouts, who is to integrate the VCS portion of this?

**A22.** The Video Wall Vendor. Please refer to the response to Questions 47 (Q47).

**Q23.** Section 3.10

Can you please provide the floor plan in AutoCAD?

**A23.** The floor plan is not immediately available in a CAD format.

**Q24.** Section 3.11.3

Can we use the wall to support the display wall instead of the structure?

**A24.** Please refer to the responses to Question 7 (Q7) above and Question 4 of the PreBid Meeting Vendor Questions (Questions and Responses Set 1)

**Q25.** The technical description describes that cable TV and satellite TV inputs will be displayed on the video wall, but it fails to provide specific counts for how many TV feeds will need to be displayed on the wall at a time.

**A25.** This has yet to be determined. It is not anticipated to exceed 3 independent cable/satellite TV inputs.

**Q26.** Will Iowa DOT provide the Cable/Satellite TV tuners described in section 3.6?

**A26.** Yes.

**Q27.** What video format do the Cable/Satellite tuners support?

**A27.** Unknown at this time.

**Q28.** Do you need to be able to select different channels from these TV tuners, or do they stay permanently tuned to one channel?

**A28.** It is intended for the TOC operators to select channels, as necessary, to stay abreast of current weather and news reports.

**Q29.** What is the video format for the security video feeds described in section 3.6?

**A29.** That information is not immediately available.

**Q30.** What is the video format for the Wowza video server feeds described in section 3.6?

**A30.** The Wowza video server produces H.264 unicast video feeds in the same resolution as provided by the cameras. That information was provided in response to Question 15 of the PreBid Meeting Vendor Questions (Questions and Responses Set 1) and is listed below:

The Axis high definition cameras produce H.264 video with a resolution of 1920 x 1080.

The two types of standard definition cameras (Vicon and Axis) both produce H.264 video, one with 800 x 450 resolution and the other with 704 x 480 resolution.

**Q31.** Can you describe in more detail the computer configuration at each of the 12 operator workstations? Specifically, how many computers? How many monitors? If there are multiple monitors, does each monitor need to be shared on the video wall or just a single monitor?

**A31.** There are eight (8) operator workstation locations in the TOC, each with a single computer workstation. There is also a "hot" spare computer workstation which will be maintained at the TOC.

Each computer workstation will have four (4) monitors. These four monitors will comprise the TOC operators "workspace", with the capability to share content from that workspace to the video wall.

**Q32.** Can you tell us how many rack units (RU) of space is available for use in the data-center?

**A32.** Approximately Twenty (20) RUs of rack space have been allotted for video wall processing equipment.

**Q33.** As stated in section 3.3.2, Leidos will develop an optimized CPM schedule for the project as a part of the proposal response, but does IowaDOT have a specific 'Go-Live' date that they need to hit?

**A33.** Please refer to the response to Question 6 (Q6).

**Q34.** Please confirm whether a Proposal Guarantee is required for this project.

**A34.** Please see the bid response page (page 3) regarding the proposal guarantee.

**Q35.** Referencing Paragraph 3.4.3, please confirm the requirement to anchor the pedestal assembly to the concrete floor and not to the raised flooring.

**A35.** Section 3.4.3 requires the video wall support assembly to be anchored to the concrete floor and/or concrete ceiling. Neither the wall nor the raised floor is designed to be structurally adequate to support the video wall.

**Q36.** Please confirm who is responsible for any required, additional penetrations of the raised floor (for example, behind the video wall for cable penetration to cable tray below).

**A36.** The video wall vendor is responsible for any required, additional penetrations of the raised floor. The Vendor shall submit proposed plans, including the proposed penetrations, to the DOT for review and disposition.

**Q37.** Please confirm what version of Windows will be installed on operator workstations.

**A37.** Windows 7

**Q38.** Referencing Paragraph 3.6, please provide total quantity of cameras that are to be made available as individual sources on the video wall.

**A38.** The DOT has over three hundred video cameras statewide. Section 3.7 requires a video wall system with the capability to display a minimum of 72 simultaneous video streams at a specified quality.

**Q39.** Referencing Paragraph 3.6, please confirm the preferred method of displaying TransSuite ATMS Map and Incident Manager.

**A39.** It is anticipated there will be numerous ATMS map displays (for different areas of the state) at different locations on the video wall. TransSuite Event Manager, as well as other TransSuite ATMS modules may be assigned to multiple locations on the video wall.

The Bidder's proposal should describe the flexibility of their proposed solution in placing a variety of content at locations on the video wall.

**Q40.** Referencing Paragraph 3.6 and 3.7.3, please confirm intent to decode each video camera natively within the video wall processor as individual sources so they may be discreetly and individually displayed on the video wall.

- A40.** Confirmed.
- Q41.** Referencing Paragraph 3.6, please confirm cable/satellite TV player make and model.
- A41.** That information is unknown at this time.
- Q42.** Referencing Paragraph 3.6., please confirm how camera tours are configured and are to be viewed on the video wall.
- A42.** It is anticipated there will be multiple camera tours, each with a unique set of cameras, displayed at multiple locations on the video wall. These tours can either be configured by TransSuite or the Vendor's Video Wall solution.
- Q43.** Referencing Paragraph 3.6, please confirm each monitor shall receive a dedicated output from the video wall processor and that no display looping is acceptable.
- A43.** Section 3.6 requires each video wall monitor receives a dedicated output from the video wall processor.
- Q44.** Referencing Paragraph 3.6, please confirm the requirement of output terminals for "24 monitors". Are there any additional display destinations other than the video wall where the video wall system needs to be connected?
- A44.** Please refer to the response to Question 3 (Q3).
- Q45.** Referencing Paragraph 3.7.1-3, please provide list of make and model for all IP cameras and/or encoders.
- A45.** The camera video for the video wall is accessed via the Wowza video server. There is no direct access to camera encoders.
- Please refer to the response to Question 30 (Q30) for a listing of the video formats provided by the Wowza video server.
- Q46.** Referencing Paragraph 3.7.1-3, please confirm the current video network is multicast-enabled and configured for related and required IGMP protocols.
- A46.** Please refer to the response to Question 30 (Q30).
- Q47.** Referencing Paragraphs 3.5.5 and 3.7.5, please confirm requirement and intent of TransSuite SIMS to interface with and control the video wall system as part of the initial deployment. Also, please confirm who is responsible for this integration and programming. If this is in our Scope, please provide contact information for TransCore to coordinate this requirement.
- A47.** Please refer to the response to Question 2, Part A.

It is not intended for TransSuite to control the video wall system. It is intended for TransSuite content to be placed on the video wall (i.e., ATMS maps, camera videos, etc) and to be able to control the function of that content.

- Q48.** Referencing Paragraph 3.4.1 and 3.5.2, please confirm requirement for the video wall to dynamically balance color and brightness between all display units as required over the lifetime of the video wall and not just as part of initial set-up.
- A48.** Confirmed.
- Q49.** Referencing Paragraph 3.4.1, please confirm requirement for the video wall system to warranty against image retention.
- A49.** Please refer to the response to Question 1 of the PreBid Meeting Vendor Questions (Questions and Responses Set 1).
- Q50.** Referencing Paragraph 3.12 for the optional Audio System, please confirm the requirement for time synchronization of the audio and video for the cable/satellite TV feed inclusive of any audio delay and processing.
- A50.** Any proposed solution for the optional Audio System item shall include time synchronization of the audio and video.