I-1323 Video Wall Replacement

Questions – 10.16.23: Posted: 10.24.23

1. Based on our Pre-Bid/Pre-Proposal Meeting, we are requesting the As-Built drawings for the building to help us in our design and installation plans for this project. (current architectural, electrical, and AV as-builts)

Answer:

Please email the Procurement Inbox @ procurement@tampa-xway.com to gain access to a OneDrive folder containing the plans.

2. Would THEA consider awarding to consultants with specific knowledge and experience in select items from the Specification 2.1 Qualifications of Respondents or does the firm need to have Professionals with all items in one firm?

Answer:

At least one member of a proposed team must meet all of the requirements identified in Section 2.1. It does not need to be the lead contractor for the Proposer's Team, but the qualifications cannot be met by utilizing the experience of multiple team members.

3. If selected as a consultant, would this preclude that Engineering/Consulting firm from proposing on other THEA Design/Build or Construction contract opportunities?

Answer:

Depending on if there would be a future Procurement that would come from this project or not, THEA would then have to consider if there is a conflict. Any current or future Procurement that is not affiliated with this project, would not cause a conflict of interest. To officially determine if your firm has a conflict of interest, please email the Procurement Inbox.

4. What is the maximum frame/refresh rate for the camera streams?

Answer:

The maximum frame/refresh rate for camera streams to be used on this project is 30 frames-per-second.

5. Does the side wall need access to all sources available on the primary LED wall?

Answer:

Yes. Section 10.A (Technical Requirements/General Requirements), 9th bullet, states that any source shall be able to be placed in any location on the video wall. In this context, the term "video wall" refers to the entire system and includes moving the source from one wall to the other.

6. How are sources acquired from VMS, Genetec, and FLIR? Physical connection to the processor from a VMS client or, does the processor subscribe to the same cameras/streams independently?

Answer:
Either method is acceptable and is dependent on the vendor's proposed solution. Per section 7.A, 2nd bullet, camera images "…shall be fed from the existing…System and/or directly from field cameras…"

7. Types of alarm conditions in your operations and desired system reactions?

Answer:
The system shall accept any type of alarms via network connected devices as well as facility-level alarms from outside of the network. Infrastructure-related alarms include when the system operates on backup power or a network alarm. Incident-detection alarms may be generated when a system detects an incident and sends an SNMP alarm. For the former (infrastructure-related alarms) the wall should display a banner or other visual and audible alert to annunciate the alarm condition. For the latter, a reconfiguration of the content to display cameras and other sources data pertinent to the alarm, shall be implemented. The details of the response shall be recommended by the vendor and determined during integration.

8. Specific actions in response to alarm conditions or existing scripts/processes?

Answer:
The Video Wall system shall respond to alarms as defined in question #7 and is limited to notification and presentation of content. As per Section 8.B, the capability to initiate external scripts or processes shall be inherent to the system, however the only external response to be implemented under this scope of work relates to the presentation of content on the video wall, with may include positioning of a PTZ camera to view a detected incident.

9. Can we confirm the exact number of workstation/server (non-network) connections to the video wall management system and the exact number of encoded streams (network media other than the highway cameras) that must be simultaneously accommodated by the video wall management system?

Answer:
Refer to Section 9 regarding the type and number of sources. The differentiation between network and non-network sources may vary based upon the Proposer's particular means of integrating the specified video feed.

10. Are the operator workstation computers existing and co-located at each desk position? If existing or new, what is the make and model of these systems? Are these workstation computer systems multi-head, and how many connections are expected to be made from each operator back to the video wall management system?

Answer:
THEA anticipates replacing the existing workstations within the next 6-12 months. New workstations are anticipated to operate on Windows 11, with a minimum i7 processor, 16 GB RAM, supporting 2-4

monitors. Proposers/vendors are encouraged to state minimum requirements to ensure the procured workstations are compatible with the proposed video wall system.

The selected vendor solution may require additional hardware to meet the required content sourcing or video wall control functionality. For purposes of screen-mirroring, only one screen-mirroring stream per workstation to the video wall is required. Where multiple monitors are connected to a workstation, it is acceptable (though not preferable) for only one monitor to be shareable.

11. Does THEA have a VMS (video management system) in place for controlling and managing and viewing the highway cameras? Is Genetec the present and/or future VMS for this facility? What is the specific product version, and will it be retained or added as part of the upgrades?

Answer:

THEA currently uses the DYNAC ATMS Software for control and viewing of THEA Cameras and the City of Tampa has used Control Point Software as part of the legacy Jupiter Video Wall System to display City of Tampa Cameras. However, the use of the Control Point software is neither desired nor allowed and the DYNAC ATMS software is currently in the process of being replaced by Teledyne/FLIR Cameleon ATMS software for controlling THEA's CCTVs. Genetec is not used for the present or planned for the future VMS.

12. Should the video wall management system include failover redundancy (duplicate hardware), or is the typical internal redundancy of hot-swappable RAID drive arrays and redundant power supplies adequate?

Answer:

Per 10.A: [2nd bullet] full database redundancy (both content sources and user profiles) is required; the system shall automatically failover to a backup database if the primary database becomes corrupted or physically fails. Additionally, per 10.D, redundant power supplies and input signals to the displays are required as they are common points of failure. Full hardware redundancy is not required; it would be acceptable if content is retrievable/displayable on only a portion of the video wall or on local monitors in the event of a partial hardware failure.

13. Please clarify any other key points or requirements from the specification, such as "Cat XL," operator workstations, encoding, API integration for alarms, decoder cards, input cards, and warranty details.

Answer:

This question is unclear. Many of the requirements are presented as functional and performance requirements and not product specifications or required hardware architecture. It is up to the proposer/vendor to select products meeting the functional and performance requirements of the system. Warranty requirements are to be fulfilled by the selected vendor during the stated duration and are irrespective of the equipment manufacturer's warranty. The selected vendor shall be the single point-of-contact for THEA pertaining to warranty claims, as noted on Page 56, Section 14.

14. Where is the Kapsch DYNAC and Chameleon software installed?

Answer:
The current Kapsch DYNAC system and the future FLIR/Cameleon system will have a physical presence in the Server Room located behind the control room.

15. Is it required that the file cabinets and storage space currently underneath the video wall remain, or can they be removed?

Answer:
The selected vendor shall remove these file cabinets.

16. May we visit the site again to examine required architectural, structural, electrical, and/or mechanical modifications?

Answer:
No further site visits will be scheduled before the proposal due-date.

17. Are there required or preferred ecosystems for processing, routing and control (Crestron, Extron, etc.), and if so, what is it?

Answer:
The system shall reliably meet the functional and performance requirements set forth in the RFP.

18. Are there any other encode/decode devices currently in use for any streams not encompassed DYNAC, Cameleon, Genetec, and Teledyne Flir that are not listed in the RFP document, and if so, what are they?

Answer:
Encode/Decode systems shall be furnished and installed as device pairs by the selected vendor. Sources are as indicated in the RFP (see Section 9).

19. Are there ATMS that were not listed in the RFP document that need to be considered for integration, and if so, what are they?

Answer:
Not at this time, although the system is required to be scalable to support additional sources with minimal equipment, cost, and labor. (Section 1, third paragraph).

20. Can THEA's network administrators or other personnel provide any outline of preferred best practices for compliance of new networked equipment encompassed in the new design?

Answer:

Physical installation of networked equipment should comply with industry standards including cable management in rack and through ceilings/floors. Where possible, existing pathways will be used including patch panels and network switches/etc.
New networked equipment must be under active support per the RFP requirements including security, firmware, and similar updates from manufacturers. All networked equipment will be evaluated in consideration of zero trust network access.

21. What is the preferred location in the control room for the two (2) ad-hoc HDMI inputs such as specific desk(s) or wall plate(s) in a particular location?

Answer:
The locations shall be coordinated with THEA after award. Desk/tabletop inputs are preferred over wall plates to allow for a place for the serving device to sit.

22. May the new display mounting structure extend to, or be attached to, the ceiling?

Answer:
Attachments to the ceiling would require structural verification to ensure the ceiling can support the equipment. Aesthetics must be maintained, including any modification to acoustic ceiling tiles. It will not be permissible to increase the height of the video displays which will sacrifice appropriate sightlines.

23. Will the three (3) shortlisted firms be notified in time to prepare pricing for the Price Proposal, or is the Price Proposal required to be prepared at the time of the Expanded Letters of Response (ELOR) Package?

Answer:
Per the Schedule of Events, Price Proposals are due by all Respondents on 11/20/23 by 9 am. All Respondents are to submit a Price Proposal as they will not know their score until the Opening scheduled for 11/27/23 @ 9:30 am. The Respondent with proposals with an average score of fifty-five (55) points or higher, will have their Price Proposal opened at the Opening.

24. Who is the general contractor of preference?

Answer:
There is no general contractor of preference.

25. Who is the electrical contractor of preference?

Answer:
There is no electrical contractor of preference.

26. What manufacturer specifications were used to describe the technologies in this RFP for the video wall processing?

Answer:

The RFP is not restricted to any particular vendor, provided the system meets the specified requirements.

27. What is the process to get the video processor and other AV hardware to be approved assets that can operate on the THEA network?

Answer:

All hardware should have manufacturer data sheets available for review prior to installation. Data sheets should include measurements, power requirements, BTU, networking, and other relevant information.
See question 20 for additional information.

28. Per page 45, section C concerning layering and transparency. It is typically the case that transparency overlays come from traffic management software and not from a windowing processor. Is it the case that THEA needs this ability within the video wall software, or can it be accomplished otherwise as mentioned in the traffic management software.

Answer:

The stated functionality is not exclusive to the Video Wall system and may be performed by other software applications.

29. Per page 45, section F concerning "72 simultaneous camera streams". Is it the case that your camera feeds are being fed in groups of 9 from the Gentec VMS?

Answer:

The requirement for 72 simultaneous and direct streams refers to individual camera images, freely and independently displayable. The requirement of 72 simultaneous streams is based on the size and foreseeable use of the video wall; that it is a multiple of 9 is coincidental.

30. Can you provide details on the THEA information Technology and network standards mentioned on page 55 section G?

Answer:

THEA network standards include minimum 1Gbps data connections for endpoint devices with 10Gbps connections for large throughput scenarios. Cabling default is CAT6 ethernet for 1/10Gbps. Fiber cabling is used as needed for selected applications and WAN connections. THEA will facilitate network design and connections based on security and other requirements.
See question 20 for additional information.

31. This RFP asks for functionality to be maintained throughout the entirety of the project, while physical walls are being demolished and constructed. Is it the case that operators are to remain in the room while this work is being performed or will they be relocated to a separate space?

Answer:

Operators will remain in the room. Reasonable coordination and accommodations will be made to coordinate operations work to not conflict with construction.

32. Please provide structural detailed plans for each wall the video wall will be installed.

Answer:

Any available as-builts will be provided as per the response to Question #1. Please email the Procurement Inbox @ procurement@tampa-xway.com to gain access to a OneDrive folder containing the plans.

33. Please confirm conduit pathways will be in place for both electrical and Low voltage.

Answer:

Construction shall be in accordance with applicable indoor building codes. Where conduit may be required, it shall be the responsibility of the vendor to install it.

34. Please confirm if you intend on the AV integrator to install the high voltage electrical or if this will be done by your electrical contractor.

Answer:

Per section 12.B, power shall be obtained from existing 120/208-volt panelboards. An electrical subpanel (see section 6.B) shall be installed by the vendor or its designated subcontractor. All electrical work shall be performed by the vendor/subcontractor. There is no high-voltage electrical work anticipated.

35. Page 51. Section C. Structural requirements:
"The vendor shall provide structural calculations demonstrating that all walls are capable of supporting the weight of the attached displays. Mounting details shall be provided. The existing wall between the Control Room and the Video Wall Service Corridor rests on top of a raised tile floor. The vendor shall determine if any reinforcements to this wall are needed in order to house the displays and shall design and provide such structural enhancements. The large opening in the aforementioned wall, currently occupied by the existing rear-projection cubes, shall be framed and finished with drywall and appropriate backing material in a manner such that it forms one cohesive, solid wall that may support the displays that will be attached to it. The finishing shall be painted on both sides to match the surroundings. Any required structural drawings and calculations shall be signed and sealed by a Professional Engineer licensed in the State of Florida."
Please confirm if the AV integrator is responsible for constructing the wall and reinforcing or will this be provided by others?

Answer:

The selected vendor shall be responsible for this design and construction.

36. Pg. 44- 7,C and Pg.50, 12, bullet 8 on the page: PTZ Camera Control from the video wall interface is listed as a requirement in both of these sections.

- Does THEA have a direct connection to these cameras or will the Video Wall controller receive them via the Genetec System?
- Are these PTZ cameras ONVIF compatible?

Answer:

See response to Question #6. The RFP does not specify whether camera feeds shall come from the cameras directly or from the Genetec system. Cameras are ONVIF compatible.

37. Pg.46 9.A. Network Sources: Do THEA and City of Tampa CCTV Cameras reside on the same physical network or have network provisions been made to accept both camera systems?

Answer:

THEA cameras and the City of Tampa cameras are on separate physical networks, and these networks shall remain separate.

38. Pg.46 9.A. Network Sources: Please indicate which version of the Genetec Video Management System THEA utilizes?

Answer:

See response to Question #11.

39. Pg.44 8.B. The RFP states: "Administrators and Users shall be able to create scripts that react to alarm conditions by automatically recalling wall states and even making calls to other applications…"

- Does THEA require that the video wall solution provide this general capability, or are there specific applications that THEA requires this capability for?
- If reacting to specific applications is required with the proposal, please indicate which applications, and any other related details.

Answer:

Refer to the response to Question #8.

40. Pg.46 9.B. Non-Network Sources: Do Cameleon and Facility Generated Alarm sources reside on a Workstation PC, Server, or other device?

Answer:

Any non-network sources will reside either in the Server Room #224 or the Comm Room #223 (refer to Figure 5). Note that some sources that feed video via non-network means may still have alarm capabilities on-network.

41. Pg.47 9.B. Non-Network Sources: Where will the 2 Auxiliary HDMI inputs be located? Does THEA require audio for these sources?

Answer:

See response to Question #21. Yes, audio shall be supported via the HDMI interface.

42. Pg.48 10.D. Video Wall Service Corridor:

- It is expected that racks needed for the video wall operation will be placed in the Video Wall Service Corridor?
- Will THEA provide a temporary location to install the backend processing and video wall controllers as per 13. Staging and Removals? In order to maintain 50% usability, the new equipment

must be located in the same area during the construction phase of the front video wall. The exposure to dust could greatly reduce the life of this sensitive electronic equipment.

- Is it acceptable to locate the video wall equipment rack in the server room (where the subpanel will be installed), rather than the corridor behind the video wall?

Answer:

Yes, the racks are expected to be located in the Video Wall Service Corridor as a final condition. THEA will work with the vendor to identify temporary locations in the Control Room for equipment needed during construction. The Server Room may not be used to house video wall equipment, temporarily or permanently. The Vendor shall be responsible for ensuring that no existing or proposed new equipment is impacted by dust or construction debris.

43. Pg.54 Figure 5: Control room video wall placement. During the Site Pre-Proposal meeting it was expressed that the side video wall may be placed on the left side of the room.

- Can THEA confirm which wall the Side Video Wall will be placed on?
- Can THEA provide a Building Architecture drawing to ensure that a cable path is available for either side wall location?

Answer:

THEA will entertain proposals with the side wall on either the left or right side of the room. The vendor shall verify constructability and electrical/cable paths for the selected location.

44. Pg.54-55 12.F. Compatibility: The RFP states "The system shall interface with existing and planned management systems including but not limited to DYNAC, Cameleon, Genetec, and Teledyne FLIR."

- DYNAC and Cameleon are both listed as Non-Networked sources, thus can you please confirm what interface is required with these systems? Does it simply mean that source must be available for display through the system?

Answer:

The Video Wall system shall reside on the THEA network. The video output from the systems categorized as "non-network" shall connect to the Video Wall system in a native video transmission format and not as a screen-capture from a workstation monitor, as that would result in loss of video quality. Examples include, but are not limited to, ATMS, camera feeds, and television video feed.

45. Pg. 42, 6,B: The RFP states "Inquire with THEA regarding THEA's desire to retain any existing display equipment." During the October 4th Pre-Proposal meeting it was expressed that no existing equipment will be kept. Please confirm that all existing equipment will be disposed of, and not retained by THEA.

Answer:

THEA does not intend, but reserves the right, to retain existing display equipment.

46. Pg 43, 7,B: Are there any sources to be displayed from the conference room or is there a need to connect the existing conference room display to the proposed video wall collaboration system?

Answer:
Only Audio functionality is to be installed in the Conference Room per Section 12.E.

47. Pg.46 9,A: Waze is mentioned as a source for the system. Does THEA want the video wall system to respond to alarms and alerts from Waze, such as automatically displaying geolocated cameras?

Answer:
Response to Waze alarms is not a requirement. However, the capability to respond to incident-detection alarms, which may include Waze in the future, shall be included. See Question #7.

48. Please clarify what appears to be conflicting requirements: Pg. 42,6,B states "Remove existing architectural enclosure behind existing video wall; restore surrounding surfaces to match". Pg. 51, C. states "The large opening in the aforementioned wall, currently occupied by the existing rear-projection cubes, shall be framed and finished with drywall and appropriate backing material in a manner such that it forms one cohesive, solid wall that may support the displays that will be attached to it. The finishing shall be painted on both sides to match the surroundings" Pg.55, 13 states "Removal of the existing system shall include removal of the 5-foot-wide enclosure that houses existing rear projection cubes. Affected floors and walls shall be restored to match surrounding conditions. "

- Is the requirement to modify and provide support structure in the existing opening of the video wall enclosure or completely remove enclosure and install the video wall on the rear wall?

Answer:
The "enclosure" referenced on Pg. 42, section 6.B and Pg. 55, section 13 refers to the structure housing the existing video cube displays. The surface of the new video displays shall be installed at the same distance from operators desks as the existing screens, not the rear wall of the Video Wall Service Corridor.

49. Pg. 55, 13: Please confirm; will an operational side video wall installation meet the requirements of 50% of capacity while the front video wall is dismantled?

Answer:
Confirmed.

50. Pg.55, 13: Please confirm; will the current operators be working in the Operations Center while the front wall is being dismantled?

Answer:
Confirmed. See Question #31.

51. Please confirm, were the Prime Contractors bidding on this project required to attend the mandatory Prebid meeting on October 4 or can one of their subcontractors meet that requirement of mandatory attendance?

Answer:

Per the RFP - Attendance at the Pre-Proposal Meeting is mandatory. Any Proposer failing to attend may be deemed non-responsive and eliminated from further consideration.

52. Must the Proposer include Sales Tax in the proposed price? If so, what is the applicable rate?

Answer:

THEA is a tax-exempt agency. Taxes should not be applied. THEA has a Tax Exempt Form that can be completed for the Consumer.

53. 1Pg. 21, Section C implies that all forms, including Form 1, Payment and Performance Bond must be included in the ELOR package. Page 13, 2.17 indicates that the Payment and Performance Bond is due "at the time of execution of the agreement", which is customary. Please confirm that the Payment and Performance Bond must be submitted by the selected Vendor at the time of execution of the agreement.

Answer:

Per the RFP- 2.17 PAYMENT AND PERFORMANCE BOND: A Payment and Performance Bond is required for this solicitation. A copy of the required Form 1 – PAYMENT AND PERFORMANCE BOND is contained in Section C. The Payment and Performance Bond is due at the time of execution of the agreement.