

RFP1114BT Questions & Answers

QUESTIONS IN BLACK & ANSWERS IN RED

QUESTION: We need some clarification on flexibility of design. It looks as though this might be a very specific system that is used to monitor traffic cameras. We need to know if we will have the ability to design this system or if the manufacturers, brands, part numbers are all going to be provided that need to be quoted or will be a required match to what is already in place? What is the flexibility of design?

ANSWER: The Proposer is not limited to the existing system design. Each Proposer has the option to present any solution to the Department in accordance to the RFP requirements. All solutions and cost associated with the solution will be evaluated based on the RFP requirements. All costs associated with the solution must be submitted per the Bid Price Proposal form. The existing system and its purpose is described within the RFP for clarify.

QUESTION: Has the design already been created with a manufacturer in mind? We understand this was to be reviewed in the walk-through. However, if it is something requiring a certification from the installer, knowing in advance to allow us to determine if this is an opportunity we could actually complete properly.

ANSWER: There is an existing system as described in the RFP, however, there has not been a planned designed for this procurement. Certification for any equipment or software will be solely based on the Proposer's solutions per the recommendations of the manufacturer of the proposed solution.

QUESTION: Is there a dock on site to receive deliveries in advance of the project or do you require that we bring equipment onsite at the time of installation?

ANSWER: There is a loading bay/ area but not at tractor trailer height also no way to unload. We do not have a forklift or pallet puller.

QUESTION: What is the bezel width that you require for the new video wall displays? – The options are 0.88mm, 1.7mm, 3.7mm.

ANSWER: We would prefer the smallest bezel for aesthetics and functionality when utilizing more than one monitor for the same video stream.

QUESTION: The RFP asks for 4K 55" LCD video panels. All current video wall suppliers only make 1920x1080p panels which is the industry standard for 55inch displays. Some suppliers make 65" narrow bezel monitors for video walls that are 4k. Which shall we propose?

ANSWER: With that said, in order to make it easier and keep the 4K requirements either 55" or 65" will be accepted.

QUESTION: Do you want Redundant Power supplies for the video wall displays?

ANSWER: We will leave that up to the contractor. But no, it is not necessary.

QUESTION: If extra rack space is required, will FDOT provide the racks?

ANSWER: FDOT will not provide any equipment. If extra space will be required that is up to the contractor to provide. This is to be a turnkey build.

QUESTION: As a Florida licensed low voltage contractor, we do not typically provide high voltage electrical work and rely on our customers to provide. Please confirm any additional high voltage electrical work will be provided by FDOT.

ANSWER: FDOT will not be doing any electrical work. Relocation of outlets and adding additional power may be needed to complete the project and will be the contractor's responsibility to complete.

QUESTION: I just want to clarify that you will accept 55" panels knowing that they do not display a 4K image.

ANSWER: No, we would accept 55 or 65 as long as they are 4k.

QUESTION: Would you accept 55" displays that convert a 4k signal into their native resolution of 1920x1080

ANSWER: As long as the display is capable of a 4k resolution if a video source is sent to it without degrading quality to do so.

QUESTION: Please clarify who is responsible for providing wall backing and doing the engineering to support each of the video walls?

ANSWER: This is to be a turnkey project any necessary engineering or wall backing is the contractors responsibility.

QUESTION: Who is responsible for the disposition of the existing video systems equipment after it is removed from the existing equipment racks?

ANSWER: Remove/ replace and store in or outside the building for the Department to dispose or surplus properly.

QUESTION: Is there a defined process to dispose / recycle / inventory / repurpose the existing video equipment?

ANSWER: See #1 above.

QUESTION: What types of permits are required for working on FL State property?

ANSWER: No permits needed.

QUESTION: What are the security requirements for the system integrator's personnel?

ANSWER: As long as they are accompanied by one of our staff at all times. There is no additional security screening necessary. Standard MFMP vendor requirements.

QUESTION: Does the system integrator need prior approval from the state for any Sub contractors?

ANSWER: No

QUESTION: Will a list of attendees to the virtual Pre-Bid Walk-thru on May 7, 2020 be made available for public inspection?

ANSWER: Yes, upon request.

QUESTION: What is the current deployment schedule and expected date for substantial completion?

ANSWER: Schedule will be between Project Manager and Awarded Vendor.

QUESTION: Will floor plans and/or schematic drawings of the existing system be made available?

ANSWER: Due to Security reasons these cannot be made available at this time.

QUESTION: Is there an existing audio system with which the new video system will interface?

ANSWER: No. This will need to be included if needed.

QUESTION: The specs for FDOT D1 HQ call for a 80" 4K LED display with (4) HDMI, (1) Display Port, VGA and USB ports.

ANSWER: We have been unable to locate a display with those input capabilities. Please verify which make and model display is preferred or the minimum available inputs that can be accepted. The inputs for all displays, both video wall and remote displays (inside and outside of the control room) shall be able to connect to the video display server. If the inputs are not compatible with the video display server, the vendor is required to furnish and install converters or other means of connecting to the video display server.

QUESTION: The RFP indicates that all video connections to the displays are via fiber optic cable. Are hybrid copper / fiber optic cables acceptable?

ANSWER: Yes.

From Virtual Site Walk-through:

QUESTION: During the pre-bid meeting we were shown that in the TMC there are acoustic panels covering wall areas where new LCD video walls will be installed on side walls. Where these overlap the new video wall displays, does FDOT want the acoustic panels removed completely, or do some acoustic panels need to be modified and re-installed?

ANSWER: The acoustic panels need to be modified and re-installed by the vendor as needed.

If some need to be modified and re-installed, is that work within the scope of this project?

ANSWER: Yes

If yes, how many, so that we can estimate the work?

ANSWER: This is unknown

QUESTION: How much power is currently available to the video wall system racks in the Swift Center TMC?

ANSWER: 3 42u Rack each Rack has (2) power strips. Each power strip has 24 outlets. I can provide pictures of the power strips in the rack tomorrow morning.

QUESTION: How much power is currently available to the video wall system racks in the STMC?

ANSWER: 2 42U Racks each Rack has 2 power strips unsure of how many or type.(best guess same power strip that is at Swift)

QUESTION: How much power is currently available to the video wall system racks in the FDOT D1 HQ location?

ANSWER: There is not an existing video wall system in the FDOT D1 HQ location.

Exhibit A, Scope of Services:

QUESTION: *Section III, New Video Wall Solution Requirements (pg. 25 of the PDF) Regarding the displays at FDOT D1 HQ site, this section indicates that "The displays for the FDOT D1 HQ Site will **not** be part of this new video solution procurement." The ten (10) FDOT D1 HQ displays are described on page 27 (of the PDF) under "Remove Video Walls "and in Table 2.*

QUESTION: *Please confirm – will the ten (10) FDOT D1 HQ LCD displays described be provided by FDOT (existing) or others under separate procurement?*

ANSWER: *These displays will be purchased by FDOT under separate contract.*

Will these displays also be installed by others, or does the Vendor need to install any of these LCD displays under this procurement?

ANSWER: *We will be handling the install of these at HQ.*

QUESTION: Section III, New Video Wall Solution Requirements (pg. 25 of the PDF) - Please clarify the requirement "The new solution must be scalable and allow for the addition of a minimum of twenty (20) new remote site locations as needed **without the need to purchase any additional hardware**".

This requirement is too vague. In order for Vendors to account for twenty (20) additional remote sites, "without the need to purchase any additional hardware", we would need to know how many displays, what size, resolution and bezel size of the display, and the display array configuration you may want at each of the remote sites. Vendors cannot configure the appropriate processing power at the remote sites without knowing what types of sources you wish to display, or how many cameras and TV tuners you wish to display simultaneously. We don't know what type of connectivity you may have, or wish to have to any of the additional remote sites and whether you expect the vendor to account for the connectivity (fiber, network equipment, etc..) between the main and remote sites. Due to the significant amount of detail required from FDOT D1 to account for twenty (20) additional remote site locations, "without the need to purchase any additional hardware", **we are requesting that you remove this requirement.**

ANSWER: I would think that we could just state that "The Vendor shall consider that the 20 remote displays will all be located in the TMC Control Room and will be the same size and type as is detailed within this RFP. The display array configuration can be considered to be one 3X4 display configuration and one 2X4 display configuration." This would at least provide D1 with the ability to add several displays without purchasing more equipment.

QUESTION: Section III, New Video Wall Solution Requirements, FDOT SWIFT SunGuide Center (pg. 25 of the PDF) Regarding the fifteen (15) 67", 4:3 aspect ratio, LED DLP rear projection displays that require replacement of the projection engines, these engines are available in either XGA - 1024x768, the same resolution currently installed, or higher resolution SXGA+ 1400x1050. Which resolution replacement engines does FDOT require?

ANSWER: The latest version is desired, which in this case is the SXGA+

QUESTION: Section III, (pg. 29 of the PDF) IX. Projectors and Displays Minimum Requirements indicates the following:

- "Display Monitor's Image Quality – Display monitors within the SWIFT Center shall be designed for a 365/24/7 control room. All other display monitors are not required to be rated for 24-hour operations without the need to power off the monitor. The monitors shall be **thin bezel** displays."
 - "Thin Bezel", as described in manufacturer's literature can vary widely from 2mm up to 25mm, and each manufacturer uses different terms such as "ultra-narrow bezel", "razor narrow bezel", etc.
 - LCD displays for use in Video Wall arrays (inside the control center) where you want a very small bezel so that visual lines on the video wall are minimal, are generally available with options for tiled bezel widths of as thin as .88 mm, 1.7- 1.9 mm or as large as 5.8 mm. The commonly used specification for LCD tiled bezel widths in RFPs for video walls are described as equal or less than 1mm or 2mm, etc.

QUESTION: Question: For the new Video Wall LCD displays (inside the control center), what is the maximum tiled bezel width in millimeters that FDOT requires, i.e. equal or less than 1mm, 2mm, 3mm?

ANSWER: Less than 1mm.

Exhibit A, Scope of Services Questions:

QUESTION: Section III, (pg. 25 of the PDF) - Please clarify the requirement "The new solution must be scalable and allow for the addition of a minimum of twenty (20) new remote site locations as needed without the need to purchase any additional hardware". Does FDOT D1 want to purchase additional Hardware and or Software at this time to meet this requirement? Are these 20 remote sites fitted with a single display or a video wall system?

ANSWER: The Department is requesting that the Proposer includes a system that capable of scaling up and has the necessary hardware performance to support additional remote devices. This should also include any licenses to support the remote display servers.

ANSWER: The remotes sites should be cable of support one or two displays each.

QUESTION: Section III, (pg. 25 of the PDF) – "Vendor shall be responsible for providing all necessary power circuits, receptacles, wiring and cabling necessary to power all Video Wall system components." Does FDOT D1 have any restrictions for adding power to the monitor locations including licensing, certified electrical contractors, or other?

ANSWER: This will be addressed in Addendum #4.

QUESTION: Section III, (pg. 25 of the PDF) - Video Walls - "Only projection engines to be replaced, the existing housing will be reused." Does FDOT D1 wish to replace the engines with the same resolution as today (XGA- 1024x768) or upgrade to (SXGA+ 1400x1050)?

ANSWER: Please provide a solution that meets the RFP requirements for Video wall resolution.

QUESTION: Section III, (pg. 25 of the PDF) FDOT SWIFT SunGuide Center - Please clarify the mention of a "virtual server". Does FDOT require utilization of a virtual server to run parts of the system software, or must the solution support this as an option? If required, please also note that the typical practice is for the software to run on a Customer provided virtual machine, as opposed to having a vendor provide hardware to host the virtual machine.

The same question also applies to the STMC Site and FDOT D1 HQ Remote Site sections on pg. 26 & 27.

ANSWER: The Proposer may propose physical or virtual servers. The Department currently has the ability to support both solutions however, per the RFP the entire virtual solution must be provided by the proposer.

QUESTION: Table 1 Display Monitor Type (pg.26 of the PDF) states "55 LED HD 4K". This is a textual contradiction between HD and 4K. Also, there are no known commercial-grade 46" monitors with 4K resolution. **Section IX, Projectors and Displays Minimum Requirements (pg.30 of the PDF)** indicates "Quality – video wall resolution shall be 1920x1080p at minimum while remote displays shall be 4k at minimum".

Please provide clarification about the resolution required for the LCD monitors

ANSWER: Response: The RFP will be updated. Please see addendum #4. For this RFP 4K UHD is used in synonymous with HD. The 46" monitor is should be a standard LCD monitor. An addendum will be issued to update the RFP.

QUESTION: Table 1 - Display Monitors at SWIFT Center (pg.26 of the PDF) and Table 2 Display Monitors at FDOT D1 HQ both indicate a requirement for 4x HDMI, Display Port, VGA and USB on the monitors. The requirement for this combination of inputs would exclude many commonly used commercial grade LCD displays for video walls. Beyond connectivity to the proposed video wall processing system, could you please explain the requirement for all the other inputs?

ANSWER: The display monitors only require a minimum of 4 HDMI and 1 USB inputs. Please reference Addendum #4 for clarity.

QUESTION: Table 2 (pg. 27 of the PDF) lists monitors "to be installed" in various locations at the FDOT D1 HQ, but Paragraph III states "The displays for the FDOT D1 HQ Site will not be part of this new video solution procurement." Please clarify FODT's intent.

ANSWER: The Displays for the FDOT D1 HQ Site location will be furnished and installed by the Department. The Proposer will need to provide a connection from the Video Wall solution to the display monitors.

QUESTION: STMC Site Section (pg. 26 of the PDF). Please confirm, will the array of 12 Mitsubishi cubes at this site be reused without modification?

ANSWER: That is correct.

QUESTION: Section IV – Project Management, (pg. 28 of the PDF) "The VENDOR must host a bi-weekly progress meeting and provide a two week look ahead of future work and update of accomplished tasks". Please confirm - is it acceptable to host meetings remotely during periods when work is not being performed on site?

ANSWER: Meetings can be hosted remotely

How many of these progress meetings does the requestor foresee for the entire project that the Vendor will need to travel to the site for?

ANSWER: The Proposer will need to determine based on the solution and project schedule.

QUESTION: Section VII - System Minimum Hardware Requirements, (pg.29 of the PDF) - The minimum processor requirements include a 4.2Ghz 35M Cache, 9.60GT/s, QPI, Turbo, HT, 14C/28T. Please confirm that these specifications are correct in particular the processor clock speed.

ANSWER: The RFP is correct. The Proposer, however, may propose an alternate equivalent solution for the Department to consider.

QUESTION: Section XI, Support and Warranty, (pg. 30 of the RFP)

First paragraph indicates that during the support period of 10 years, next day delivery of RMA parts is required. Considering that video wall server and display server computers and LCDs are not 10-year life span products and that manufacturers may provide support of products for that period, but not do not guarantee overnight spares, we believe that this is an unrealistic requirement. Would FDOT modify this requirement to overnight RMA delivery during the warranty period instead?

ANSWER: The Proposer may propose a solution they believe is achievable for FDOT to consider.

- The software warranty requirement is for 10 years. Extended warranty for software is typically dependent on purchasing Support Services from the software manufacturer. Does FDOT want the vendors to proposed 1 year of annual support, renewable each year, up to 10 years?
- **ANSWER: The Proposer may determine how to bid the warranty and support cost to best achieve meeting the minimum requirements of the RFP.**

QUESTION: Section XII, (pg.31 of the PDF) please clarify the requirement that indicates: *“The video wall management system software shall support the virtualization of the management server and remote desktop transport software. The system shall consist of at least one management server and one failover management server that can reside as separate virtual instances on separate hosts”* Does FDOT require utilization of a virtual server to run parts of the system software, or must the solution support this as an option?

ANSWER: The intent is that the system has the ability to virtualize its core/central software management component to allow for site redundancy. The Proposer may propose an alternative solution for redundancy to the Department that meets the RFP requirements.

QUESTION: Section XII, (pg.31 of the PDF) Under the "mirroring and remote monitoring" requirement, please clarify the sub requirement "complete hardware redundancy and system back-up". Does FDOT mean that the solution's mirroring and remote monitoring capabilities must support a potential redundant configuration as an option, or does FDOT require hardware redundancy and back-up in the proposed solution?

ANSWER: The proposed system must be have a method of redundancy and server back-ups to ensure the system can recover or be recovered after a critical event to minimize downtime.

QUESTION: Will FDOT be responsible for disposing of old equipment not being re-used?

ANSWER: The Department will dispose of unused computer equipment from the existing system. The Proposer is responsible for any other elements.

Exhibit "B " Compensation Questions

QUESTION: Exhibit "B " Compensation, 3.0 Progress Payments (pg.35 of the PDF): It appears that payments will be made only after completion of each project. A single payment after completion is not customary and places a financial burden on the Vendor to cover hardware costs for this period of time. Will FDOT allow for progress payments for each site, for example, one progress payment for the equipment upon delivery to the respective site., and a second progress payment for the balance of the respective site amount upon completion of the respective site?

ANSWER: Please see Exhibit B of the RFP.

QUESTION: Exhibit "B " Compensation, 4.0 Liquidated Damages- There is no description for a possible extension to completion dates due to circumstances outside the control of the Vendor. Particularly at this time, when equipment delays from manufacturers are common due to Covid 19 pandemic, this a concern. How will delays for circumstances outside the control of the Vendor be handled?

ANSWER: The FDOT PM will make provisions for reasonable issues that are unforeseen to the Proposer, however, that will be at the sole discretion of the Department.

Special Conditions Questions

QUESTION: 22.2.3 Deployment Plan & Project Schedule (pg.17 of the PDF) Indicates a March 1, 2020 start date. Please provide an updated approximate start date.

ANSWER: The start date will be updated within Addendum #4.

QUESTION: 22.3 Price Proposal (pg.18 of the PDF) indicates that for the Price Proposal, only the "1 original" is mentioned. Please confirm that no electronic version is required for the Part II, price forms.

ANSWER: The original copy the only copy required.

QUESTION: PUR 1000 General Contract Conditions, 16 (pg.6) indicates that the State does not pay Federal taxes on direct purchases. Does the bidder need to add any other sales taxes (state, local, etc.) to the bid prices?

ANSWER: The state is a tax-exempt entity.

QUESTION: Considering the requirement for working remotely in many parts of the country. Will FDOT allow for electronic proposal submittal via e-mail, rather than hard copy?

ANSWER: Please see Addendum 6 for instructions

QUESTION: As the Site Visits have been postponed, we request an extension to the RFP due date and deadline for questions to a similar period of time following the date of the Site Visits.

ANSWER: All dates will be updated. Please see Addendum #4

QUESTION: When are the Technical and the Price Proposal due? ...on or before 6/1/2020, 10 AM?

Addendum # 5 states the following opening dates:

- 6/1/2020 / Technical Proposal Opening, 10 AM
- 6/15/2020 / Price Proposal Opening, 10 AM

ANSWER: Please see Addendum 6

QUESTION: As Mitsubishi cube engines do not come with 4 HDMI and 1 USB inputs, is this

a mistaken requirement? # Addendum 5, Table 1: Display Monitors to be installed in Various Locations at the SWIFT Center, states the following:- Under the "Display Monitor Type" column: (15) 67" DLP / Under the "Monitor Inputs" column: 4 HDMI, 1 USB

ANSWER: The inputs for all displays, both video wall and remote displays (inside and outside of the control room) shall be able to connect to the video display server. If the inputs are not compatible with the video display server, the vendor is required to furnish and install converters or other means of connecting to the video display server.

QUESTION: LCD monitors are either HD (1920 x 1080) or 4K resolution (not both). Please clarify which resolution is required for the Video Wall LCDs? - All of the monitors designated as Left Video Wall 1 & 2, Right Video Wall 1 & 2, are identified under the "Display Monitor Type" as 55" HD 4K. - Section IX, Projectors and Displays Minimum Requirements (pg.30 of the PDF) indicates

"Quality – video wall resolution shall be 1920x1080p at minimum while remote displays shall be 4k at minimum".

ANSWER: For the upgrade of the existing video wall, the vendor shall upgrade the existing chassis of the existing video wall which has a 4:3 aspect ratio. The engine upgrades shall be the latest version available. LCD remote displays within the control room are to be 55" small bezel HD displays. All LCD remote displays outside of the control room are to be 55" 4k displays.

QUESTION: LCD monitors are either HD (1920 x 1080) or 4K resolution (not both). Please clarify which resolution is required for the 2 x LCDs in the TMC Interior Hall (TMC Vestibule), HD or 4K? The monitors designated to the TMC Interior Hall (TMC Vestibule) are identified as (2) 55" HD 4K monitors

ANSWER: All LCD remote displays outside of the control room are to be 55" 4k displays

QUESTION: LCD monitors are either HD (1920 x 1080) or 4K (not both). Please clarify which resolution is required for the various (new) LCDs at the HQ location, HD or 4K? Addendum # 5, Table 2: Display Monitors to be installed in Various Locations at the FDOT D1

HQ, states the following: - Under "Display Monitor Type" all the LCD monitors are identified as HD 4K in various sizes.

ANSWER: LCD displays within the HQ Building are to be 55" 4k displays.

QUESTION: Is there existing electrical power near all the LCD designated areas, outside of the control room, both at the SWIFT Center and the HQ Remote Site?

. In the RFP, section III, New Video Wall Solution Requirements, third paragraph (Video Walls), last bullet point, it states the following requirements:

"All displays in the SWIFT Center must be rated as 24 hour monitors and shall not be required to be powered off to improve performance."

Several LCD manufacturers claim that their LCDs are "designed and rated" for 24/7 operations. However, most LCD manufacturers will not warranty their LCDs, which are allegedly "designed and rated" for 24/7 usage, against image retention (ghosting) and image burn-in, which are the most common problems associated with LCDs when used continuously.

QUESTION: Does FDOT want video wall LCDs that are both "designed and rated" for 24/7 usage AND warrantied against image retention and image burn-in, OR LCDs that are simply rated as 24 hour monitors by the manufacturers who do not consider image retention and image burn-in as a defect, and, therefore, not a warrantable service item/matter?

ANSWER: In my opinion the LCDs in the Control Room should include a warranty for 24/7 usage without the need to be powered off to improve performance and the warranty needs to include image retention and burn-in.