JMU
JAMES MADISON
U N I V E R S I T Y.

January 7, ~~2019~~ *2020*
cms

ADDENDUM NO.: Two

TO ALL OFFERORS:

REFERENCE: Request for Proposal No: **RFP# CMJ-1068**
Dated: December 2, 2019
Commodity: Atlantic Union Bank Center – High Density Wireless Network
RFP Closing On: **January 14, 2020 at 2:00pm**

Please note the clarifications and/or changes made on this proposal:

1. **Question: Can you please kindly advise of the address for where the circuit will terminate? Or, if not yet established the closest approximate address, along with actual LONG/LAT coordinates?**

   Answer: 645 University Blvd, Harrisonburg, VA 22801

2. **Question: What's the circuit bandwidth you'll require?**

   Answer: Offeror should propose and justify adequate bandwidth per RFP specifications for their proposed solution.

3. **Question: Would a site visit of the center be available?**

   Answer: A site visit will not be possible before RFP close.

4. **Question: Is JMU willing to allow vendors to propose a Ruckus/CommScope homogeneous solution?**

   Answer: The scope of the specification for Manufacturers and Products has not changed.

5. **Question: Would JMU entertain proposals to consist of Ruckus Access Points, Switches and Controller?**

   Answer: The scope of the specification for Manufacturers and Products has not changed.

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752 Ott Street, Room 1042
Wine Price Building
Harrisonburg, VA 22807
Office of 540.568.3145 Phone
PROCUREMENT SERVICES 540.568.7936 Fax

6. **Question: Will the University accept a powered fiber solution in the event that a WAP exceeds 100M?**

   Answer: Yes, however pathways have been designed in such a way that that should not be necessary.

7. **Question: Are J-Hooks an acceptable pathway or does the University require all CAT6A runs for WAP's be in conduit back to tray?**

   Answer: Owner will provide conduit pathways from the WAP location to the cable tray.

8. **Question: Is a legend for Attachment E available to confirm what the Red Dot and Red Outline areas identify? Do those areas have existing Wi-Fi as part of the construction package?**

   Answer: The areas outlined in red are exclusion areas outside the scope of the RFP. Yes, the red dots represent WAP locations for JMU back of house network.

9. **Question: From the requested references, are there specific details that the photo of installation should reflect?**

   Answer: We are looking for a representation of past work performed. Sample photos of equipment as installed, rack installations with terminations, cabling, etc.

10. **Question: Does the University have a preference for an underseat/picocell WLAN solution versus an overhead WLAN solution?**

    Answer: Our preference is for an overhead solution but are open to alternate solutions.

11. **Question: Is there a requirement to provide external WiFi coverage outside the Arena for onboarding patrons?**

    Answer: It is desirable for WiFi coverage to be available external to the building immediately adjacent to the main entrance to the facility.

12. **Question: Can the University provide a list of low voltage / network wiring contractors that have recently worked on the campus? Of this list of low voltage network wiring contractors that have recently worked on campus, which are VA certified SWAM members? Which low voltage network wiring contractor is working for the GC (general contractor) doing the current arena construction?**

    Answer: While the University does not have preferred local cabling contractors VA certified SWAM members would be ideal (https://www.sbsd.virginia.gov/directory/).

13. **Question: Can the University provide a list of electrical contractors that have recently worked on the campus? Of this list of electrical contractors that have recently worked on campus, which are VA certified SWAM members? Which electrical contractor is working for the GC (general contractor) doing the current arena construction?**

    Answer: While the University does not have preferred local electrical contractors VA certified SWAM members would be ideal (https://www.sbsd.virginia.gov/directory/).

14. **Question: Can APs be placed in the arena "centerhung" scoreboard? Will the centerhung be stowed / retracted when the arena is being used for convocation or as a theater? What is the height above the floor of the centerhung when deployed versus when it is stowed?**

    Answer: There is not an issue with placing APs on the underbelly of the center hung. However, it is not preferred. Any placements will have to be coordinated with LED vendor. Nested height and game height will vary slightly based on manufacturer of center hung.

15. **Question: What is the height above the floor of the catwalk? Are there any structural limitations to the catwalk from a load perspective that would prohibit or limit its use for installation of access points? Does the catwalk have a pervasive cable tray system that can be utilized for routing Ethernet cables?**

Answer: Installing APs on the catwalk is preferred and a cable tray is provided. There is a cable tray and there is no structural concern.

16. **Question: Can the University provide RCP (Reflected Ceiling Plan) drawings for the arena? Specifically, we're looking for ceiling types and elevations.**

Answer: A full construction set was provided as part of the distribution. RCPs should be included within.

17. **Question: Would it be possible for the selected contractor to leverage higher education discounts available to the University when procuring network equipment from Cisco?**

Answer: Offeror should submit pricing based on offerors discount.

18. **Question: Given the research and preparation required to do a thorough and complete response, will the University consider an extension on the response deadline for an additional week or two?**

Answer: Not possible at this time.

19. **Question: In Attachment D, Performance Specifications, Part 3 Execution, subsection 3.2 Expected System Performance, item #7 states:** *No support for legacy 802.11 standards are required. Contractor shall focus on standards n, ac, ax as the basis for their proposed solution.*

    We understand the desire to "future-proof" your network as much as practical but we believe that requiring the 802.11ax protocol, which is <u>currently unratified</u>, is an exercise in using "bleeding edge" technology. We call it "bleeding edge" specifically due to the revamping of the protocol that scraps backward compatibility giving it an "all or nothing" nature to its implementation and we do not foresee a preponderance of client devices using the *ax* standard for 5 years (2025). We estimate this will increase this portion of the project's cost 2-3x. Again, it's not currently supported by any client devices nor is it fully ratified standard. AC wave2 with backwards compatibility to N is reasonable and still future proofs the system.

    Please confirm you require an 802.11ax transmitting system in your responses.

Answer: We do not require 802.11ax.

20. **Question: In reference to page 32, part A, "All network equipment power circuits must have an emergency back-up system as deemed necessary per the local or state fire code; whichever is more restrictive."**

    Does the local/regional legal code and or JMU require UPS?

Answer: Electrical circuits are owner provided with generator back up. Offeror should provide enough UPS capacity to accommodate for generator switch over in the event of a power failure.

21. **Question: In reference to page 39, section 1.1 Acceptable Manufacturers and Products, part A, "All network equipment power circuits must have an emergency back-up system as deemed necessary per the local or state fire code; whichever is more restrictive.**

   Does network core equipment include Firewalls, Gateways and Policy Servers?

   Answer: Yes. See answer to previous question number 20.

22. **Question: In reference to page 43, section 1, "The Contractor is responsible for determination, and verification of the number and type of access points to be deployed. Locations are expected to be a mixture of cable tray, exterior, and finished ceiling, and clear span installations based upon coverage needs." Is under seat and/or handrail AP Mounting locations acceptable?**

   Answer: See answer to previous question number 10.

23. **Question: In reference to page 44, section 1, "Contractor is required to determine quantities of SSIDs broadcasted and non-broadcasted, based upon their proposed solution and forthcoming needs of the University. James Madison University in any form, to include JMU, shall not be used in SSID naming conventions. Contractor is required to coordinate with JMU Information Technology for all SSID naming conventions." And section 2, "Contractor is required to determine quantities of VLANs based upon their proposed solution and forthcoming needs of the University."**

   Will University provide SSID/VLAN guidance or specification? Specifically, will specific VLANs be assigned to services such as vending etc? Will security requirements such as isolation be indicated? What SSID requirements and authentication plus coverage be applied to each application or service?

   Answer: The University has no preconceived quantity of required SSIDs or VLANs and will work with the winning vendor to determine SSID, VLAN, and security requirements.

24. **Question: In reference to page 46, section 1, "Virtual Beacons: University preference; Mist Virtual Beaconing Application. What application/service will be required of Beacons? Wayfinding, Location Based Services, Advertising etc?**

   Answer: This is a future capability. None of these references should be excluded from potential capabilities.

25. **Question: Can a more specific coverage details be provided of the outdoor plazas and parking areas?**

   Answer: WiFi coverage of the parking areas are not included in the scope of this RFP. See answer to previous question number 11.

26. **Question: Since the Wi-FI exclusion areas are adjacent to required coverage will any guidance be given as to co-channel interference, maximum signal levels in exclusion areas, etc.**

   Answer: Yes. JMU will coordinate with the awarded contractor.

27. **Question: Will there be a DAS system?**

   Answer: There are no immediate plans for a cellular DAS. There will be a Public Safety DAS installed outside the scope of this RFP.

28. **Question: Will there be any wireless audio or video systems operating in the coverage areas?**

   Answer: Yes. A separate solicitation was issued and is pending award.

29. Question: Does the 11 Mbps per user refer to Downstream, Upstream or Bi-Directional throughput?

Answer: Bi-Directional.

30. Question: Between 802.1x and HS 2.0 SSID's does the university have and estimate of the number of radius server interconnects?

Answer: No

31. Question: Does the university have any minimum RSSI/SNR requirements other that achieving the minimum data rates?

Answer: No

Signify receipt of this addendum by initialing *"Addendum #2_____"* on the signature page of your proposal.

Sincerely,

Colleen Johnson
Buyer Specialist
Phone: (540-568-3137)