



South Orange County Community College District

**RFQ&P No. 5285-2022
Information Technology Consulting Services for
Irvine Valley College Campus-wide Outdoor Wireless Networking Project**

Addendum No. One (1)

June 3, 2022

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Note:

All documents remain unchanged except section or parts added to, revised, deleted and/or clarified by this Addendum.

1. The following documents are attached to this Addendum for reference:
 - Cisco Prime Heat Maps
 - Current IVC Cabling Standards
2. The responses to the questions received by the RFI deadline of May 26, 2022 at 5:00pm and the responses to the questions from the mandatory pre-proposal meeting held on June 1, 2022 at 10:00am are shown below:

Q1: We understand that Plannet Consulting had specified Cisco in the original network design. Would the District be willing to consider alternative OEM's? I.e., Aruba or Ruckus?

A1: No, Irvine Valley College (IVC) plans to implement Cisco wireless equipment.

Q2: Will the awardee of this RFP be precluded from any future award of subsequent RFPs for the said WLAN project?

A2: The awardee of this RFP would not be able to participate in the future RFP for the wireless implementation.

Q3: Will there be Telecommunications As-Builts available for the site? Ideally the following would be beneficial for planning infrastructure:

- a) Outside Plant Conduit/Cabling
- b) Existing Wireless Access Points

A3: For item (a), the awarded vendor will work with the IVC Facilities, Maintenance, and Operations (FMO) department to review available documentation, including diagrams; for item (b) existing WAPs:

AIR-CAP1532I-B-K9 x 2
AIR-AP3802I-B-K9 x 363
AIR-AP1562I-B-K9 x 5
AIR-AP1562D-B-K9 x 2
AIR-AP1542I-B-K9 x 5

Q4: Will there be Electrical As-Builts available for the site?

A4: The awarded vendor will work with the IVC FMO department to review available documentation, including electrical diagrams.

Q5: Can the images and diagrams by PLANNET included in the RFP be provided in higher resolution?

A5: These documents will be made available in a future addendum.

Q6: Can the predictive Wi-Fi reports included in the RFP be provided in higher resolution?

A6: These documents will be made available in a future addendum.

Q7: Is the latest standard documentation available for Wi-Fi and network equipment?

A7: The TS department will provide all available information about the existing Wi-Fi network. The current Cisco wireless network consists of the following:

Controllers:

Cisco WLC 8540 x 2

Access points listed in answer 3.

Heat Maps produced from Cisco Prime are included with this RFI response.

Q8: Will Cisco Systems Inc. be involved in the project design from a component and support standpoint?

A8: We do not have a contract with Cisco for network design. The awarded vendor can coordinate discussions with Cisco as needed.

Q9: What is the desired platform and format for predictive wireless reports?

A9: IVC desires the Ekahau site survey format.

Q10: What is the desired test format once the construction is complete to confirm the desired coverage?

A10: IVC is looking to the awarded vendor to design testing criteria. At a minimum, IVC would like a

before-and-after comparison of predicted vs. actual outdoor wireless coverage.

Q11: Why is SOCCCD/IVC asking for consulting services when you already have a scope of work outlined in the RFP?

A11: The information in the RFP was from a prior study by PLANNET for a wireless mesh design. The college has decided to move towards a design that uses wired connections where possible and is therefore requesting a new design.

Q12: Is Cisco Enterprise the only OEM in consideration or is Cisco Meraki, Aruba or Juniper Mist or another manufacturer equivalent an option as well?

A12: Cisco Enterprise will only be considered, as the college already has made a significant investment in Cisco wireless infrastructure.

Q13: If Cisco Enterprise is the only OEM in consideration, must we only quote devices within the BOM?

A13: This RFP is not requesting quotes for devices. Please review the Scope of Services being requested on pages 15 -16 of the RFQ&P No. 5285-2022 document.

Q14: Is SOCCCD/IVC looking for ongoing Day 2 Support? AT&T can provide Proactive Monitoring and Network Outage Alert, 24/7 manned technical help desk, Equipment Next Business Day Replacement.

A14: This RFP is not requesting support options. Please review the Scope of Services being requested on pages 15 -16 of the RFQ&P No. 5285-2022 document.

Q15: Is there an expectation or desire to support standards based, seamless and secure integration between Wi-Fi and Commercial Provider Radio Access Networks (RAN) networks?

A15: There is no current expectation to support RAN networks. This can be discussed during the design phase.

Q16: Is there already an approved budget?

A16: Yes, there is an approved budget for this project.

Q17: Does SOCCCD/IVC have a preference on a OpEx or CapEx model?

A17: For this and future wireless network projects, the district is not currently considering OpEx.

Q18: Has the environment changed since the site survey was performed in 2021?

A18: A refresh of the network cores and edge is in progress. The BOM can be provided to the awarded vendor.

Q19: Which site surveys tools were used to perform the site survey?

A19: This information will be made available in a future addendum.

Q20: Is a Visio diagram available consisting of the network infrastructure (Routers, Switches, etc)?

A20: The college is currently undergoing a switch network refresh that encompasses new Cisco core and edge switches. IVC will work with the vendor implementing the Cisco switch network refresh to provide all network documentation.

Q21: What are the make and model of the routers and switches?

A21: The college is currently undergoing a switch network refresh that encompasses new Cisco core and edge switches. IVC will provide a copy of the network refresh BOM to the awarded vendor.

Q22: Internet Circuits: What is the Internet bandwidth of the IVC campus?

A22: IVC has dual 10Gb Internet circuits connected to the CENIC network.

Q23: Is a diagram of the wireless network available?

A23: IVC will provide to the awarded vendor all available network documentation.

Q24: What is the make, model, and software version of the controllers, access points, RADIUS server, tool to monitor wireless, etc.?

A24: IVC will provide to the awarded vendor all available network information.

Q25: Is Cisco DNA Center currently installed? Or will this need to be deployed as part of this outdoor wireless project?

A25: IVC is currently undergoing a switch network refresh that encompasses new Cisco core and edge switches that includes Cisco DNA Center.

SSID (Q26-Q28)

Q26: How many SSIDs are being broadcast?

A26: IVC will provide all available information for the existing Wi-Fi to the awarded vendor at the outset of the engagement. Currently there are 7 SSIDs.

Q27: What are the names and function of each SSID?

A27: Here is a breakdown of the current SSIDs:

IVCW_VOICE -> Cisco wireless phones
IVCW_EVENTS -> Guest Events
IVCW_SECURE -> IoT devices
IVCW_STUDOM ->
IVCW_STAFF -> Staff and Faculty wireless
IVCW_STUDENT -> Student Wireless
IVCW_STUD_INST -> instructional wireless for all the labs with laptops.

Q28: How are devices authenticated to each SSID?

A28: Here is a breakdown of the current device authentication methods:

IVCW_VOICE -> mac filter
IVCW_EVENTS -> using WAP password and username and password given
IVCW_SECURE -> mac filter
IVCW_STUDOM -> Radius
IVCW_STAFF -> Radius
IVCW_STUDENT -> Radius
IVCW_STUD_INST -> Radius

Q29: What the most common wireless devices used on the network?

A29: The majority of wireless users will be students using a variety of mobile devices on the wireless network. Given that IVC currently has limited outdoor wireless coverage, it does not have current statistics for the types of devices that will be used on the outdoor wireless network.

Q30: Which apps will users need to access on the wireless network?

A30: The majority of wireless users will be students using a variety of mobile devices on the wireless network. Given that IVC currently has limited outdoor wireless coverage, it does not have current statistics for the types of devices that will be used on the outdoor wireless network.

Q31: Are there any ongoing wireless issues that we should be aware of?

A31: IVC will provide all available information for the existing Wi-Fi to the awarded vendor at the outset of the engagement. IVC desires that the existing Cisco WAPs be upgraded with the proper licenses to be managed on new Cisco controllers that support the latest Wi-Fi 6 WAPs.

Outdoor wireless (Q32 – Q35)

Q32: What type of services will be used for the outdoor wireless (Email, Internet access, access to IVR data network, Applications, Voice, Video, etc)?

A32: The outdoor wireless is for student and employee use, so there may be a variety of uses of the

network. We will have several Police vehicles with various devices that will need wireless access.

Q33: What are the estimated clients that will be using the outdoor wireless during peak time?

A33: IVC can make available current wireless statistics available to the awarded vendor. Since the current outdoor wireless coverage is limited to about a dozen existing outdoor WAPs, those statistics may not be an accurate indicator of eventual outdoor traffic.

Q34: What are the square feet of area that the outdoor wireless will need to cover?

A34: The campus has over 60 acres of area to cover (refer to the campus map in the Appendix)

Q35: Where will the Trendnet switches be installed?

A35: Exact locations of any network equipment specified will be determined during the network design process.

Q36: Please provide most current Irvine Valley College Cabling and Technology Standards.

A36: The current IVC low-voltage standards are included in an attachment.

Q37: Is the Cisco wireless backhaul the selected data communication technology for the field WAPs?

A37: Yes, Cisco wireless equipment will be implemented.

Q38: Please provide the definition of "full wireless coverage across the entire campus". For example: is full coverage what is shown on the PlanNet heatmap? Or is full coverage everything within the physical boundaries of the campus including all of the athletic fields, parking lots, bus stops, between buildings, un-occupied exterior spaces, etc.

A38: IVC desires wireless coverage includes the entire physical campus.

Q39: Does this mean that the college is no longer considering wireless mesh networking in the design, or is the college still open to mesh networking for some areas of the campus.

A39: IVC is open to wireless mesh where wired is not possible or cost prohibitive.

Q40: Is there a master plan or individual planning documentation that describes the scope and schedule of the campus projects that may impact the wireless design? If so, can that be provided.

A40: The awarded vendor will work with the IVC FMO department to review the schedules for other projects that may impact the wireless design.

Q41: Is passive optical network (PON) technology and infrastructure considered as one of the access network Technology Standards?

A41: IVC network technology standards will be reviewed with the awarded vendor. PON is not currently an IVC standard.

Q42: Are current campus electrical and LV infrastructure as-builts available in electronic format?

A42: The awarded vendor will be provided with all available documentation.

Q43: Please confirm the project A/E BIM software is Revit and version

A43: The college is open to using Revit. The college would like original file copies along with PDF files.

Q44: Is it possible to get a copy of the IVC-IT Security requirements before bid?

A44: Security detailed requirements for the wireless network will be finalized during the project design phase. District security standards can be found in Administrative Regulations 3720 thru 3736 on the SOCCCD website at [Board Policies - South Orange County Community College District \(soccdd.edu\)](http://soccdd.edu).

Q45: Please confirm the "Cisco wireless technology" means Wi-Fi. If so, please provide the current WLAN as-built.

A45: Cisco wireless technology refers to Wi-Fi.

Q46: Is there a preferred contract or a priority for the pre-negotiated contracts / schedules that the college would like to reference for this project?

A46: The preferred contracts will be determined once the wireless network design is completed.

Q47: In Phase 1, the RFQ notes that the design and schedule need to incorporate "into the wireless design and implementation schedule changes to the campus caused by expansion of parking lot solar shade canopy systems, implementation of digital signage, deployment of Electric Vehicle Charge Stations, and other capital outlay projects. The proposal plan should include meetings with FMO, TS, and other facility project participants and stakeholders such as contractors and Southern California Edison." Please provide details on these projects and associated schedules.

A47: The awarded vendor will work with the IVC FMO department to review the schedules for other projects that may impact the wireless design.

Q48: Does FMO and TS departments have existing conditions/as-built drawings that indicate all existing pathways across campus for the team to survey? Will FMO and TS survey and confirm potential pathways or will the design team need to survey all locations?

A48: There are some as-built drawings which will be provided to the awarded vendor. It is anticipated that the design team will survey all locations to the extent necessary to finalize the design.

Q49: Please confirm that the district will not be bidding out this project to alternate wireless companies. The project will be single sourced to Cisco.

A49: Yes, IVC will be implementing a Cisco outdoor wireless network.

Q50: Due to supply chain demands, is the District willing to look at other vendors besides Cisco? If equipment is not available, what alternatives are there for equipment selection?

A50: No, IVC will only accept a Cisco outdoor wireless solution, even if that delays the eventual deployment dates.

Q51: Phase III – please confirm bi-weekly site inspections and bi-weekly project meetings indicate meetings every 2 weeks and not twice per week. Is the intent for the project meetings and the site inspections to happen on the same day?

A51: We confirm that bi-weekly inspections and meetings indicate every two weeks. The project and site inspection meetings do not be to be on the same day.

Q52: Confirm that the installing contractor will be engaged/contracted by the District and not by the awarded consultant.

A52: Confirmed, the installing contractor will be engaged by the District.

Q53: Is it intended or desired to have the WAP installed on existing structures (buildings, light poles, etc.) across campus or will the project be installing new poles, bollards, etc. for mounting purposes?

A53: IVC will review with the awarded vendor each installation location to jointly determine whether to use an existing structure or to specify a new structure/mount installation. Existing structures will most likely be preferred to keep costs down, but new structures are not precluded.

Q54: Should the design team carry an architect to assist with detailing any installations on existing buildings?

A54: That is up to the awarded vendor. For phase 2, if the RFP document that is developed needs drawings, then the awarded vendor will need to provide whatever services are necessary to finalize the RFP.

Q55: Is the selected consultant coordinating the permitting process?

A55: Yes

Q56: Please confirm we do not need to include Appendix D, E, F, and G in our submission.

A56: Confirmed, you do not need to include those appendices.

Q57: Will the meeting be recorded and shared for those that want to review at a later time?

A57: No

Q58: Is Fluid mesh design acceptable for the mesh areas?

A58: That will be decided during the design phase of the project.

Q59: Will the final project construction documents be subject to DSA review?

A59: We anticipate that DSA will not be involved, but that will be determined based on the build requirements developed for each location.

Q60: If we bid for this consulting project, will our firm be allowed to bid for future implementation work or not?

A60: The awarded vendor will not be able to bid on the implementation work.

Q61: What is the budget for the project?

A61: We have a budget that we will share with the awarded vendor.

Q62: Will we need to provide the resources for Phase 2 (installation of WAP)?

A62: No

Q63: Are there any considerations for future Smart Campus initiatives that could affect this design phase?

A63: None at this time.

Q64: Will 5G coverage be needed outdoors?

A64: That is not a current requirement but can be discussed with awarded vendor during the Phase I - Design.

Q65: Are you anticipating that the system, once built, will be commissioned (testing the system, before the final check is cut to the contractor)?

A65: Yes

Q66: Will onsite support be needed?

A66: Support options will be included as part of the RFP developed in Phase II - Bidding.

Q67: Will this project expect new above ground pedestals and power like at Saddleback College?

A67: The awarded vendor will advise IVC on structure builds as part of Phase I - Design. Ground pedestals may be considered.

Q68: Will there be an inspection by an official at the end of the project?

A68: The awarded vendor will be responsible for review of the completed work (see the Scope of Services, Phase II on page 16)

Q69: Is there a mandatory requirement to have a certified EE on the project? What type of certification is required for the EE? Is it a degree?

A69: The District asks that the vendor provide electrical engineering resources to work with the IVC FMO department should the need arise.

Q70: What is the scope of the digital signage? Will the winning bidder implement that?

A70: The digital signage project is already in progress, and the details will be shared with the awarded vendor. The awarded vendor of this RFP will not be a part of that project's implementation.

Q71: Will blue lights be a part of this project?

A71: No