

## RFP 11/12-05 Network Architecture Engagement Q & A

**Question:** Presidio will require that Palm Beach State complete the attached Letter of Authorization (LOA) which will allow us to obtain current SmartNET contract information and in turn allow us to respond to the SmartNET support portion of this RFQ.

**Answer:** *Since the RFP does not call for the respondents to take over any existing maintenance agreements, the College will not sign a LOA.*

**Question:** I would like to kindly ask for a one week extension on your RFP 1112-05 for Network Architecture Engagement. There are a few very important components in our solution that will not be released until February 1<sup>st</sup> and they would greatly improve the design and functionality that we would like to offer to the College. I would greatly appreciate your consideration to this request.

**Answer:** *No.*

**Question:** Are 10 Gig uplinks from the access layer switches to the core desired as future capability or required as part of the solution? It's one thing if the access layer switches need to be 10 Gig capable vs. building a new core at each campus with the appropriate amount of 10 Gig ports to support the desired connectivity.

**Answer:** *10G uplinks are required in the solution from the access layer to the core as shown on the T400 series drawings.*

**Question:** Speaking of PoE, do the PoE counts in each of the locations on the T401 through T405 drawings include both the existing WLAN AP count as well as the additional 60 desired APs to be included in the proposal? Depending on the Wireless solution used, external power or PoE+ will be necessary (some 802.11N APs can run on 15.4 watts, but ideally, you want full PoE+ support).

**Answer:** *The quantity of PoE ports identified is anticipated to meet the number of ports required for VoIP, camera and AP ports.*

**Question:** The port counts in the T401 through T405 drawings net out the total switch ports and PoE ports desired in each location. Other areas of the bid state that PoE will be important in the access layer moving forward (as VoIP continues to expand). Do you want PoE capability for only the PoE ports listed, or will all ports for each location require PoE eventually? Whether a chassis switch with line cards, or stackable switches as the technology, different switches or cards are used whether PoE is needed on those ports or not. If only scoped for the minimum PoE, you will have to swap out cards or stackable switches for PoE versions when you need to expand the PoE capabilities in the future as more devices require it.

**Answer:** *The quantity of PoE ports identified is anticipated to meet the number of ports required for VoIP, camera and AP ports.*

**Question:** Do the existing Cisco 3560s in the IDF closets have stacking modules?

**Answer:** *No. Only the 3750G located in the NOC have stacking modules.*

**Question:** The drawings show a cisco 2912 but it does not appear in the inventory list?

**Answer:** *The 2912 is listed on the inventory list as a Catalyst 2912MF-XL*

**Question:** You provide an inventory list of the 4506 in Lake Worth, but do not provide the same information for the other two 4506s at the other campuses. Are they configured identically to the Lake Worth switch from a hardware perspective?

**Answer:** *The Boca Raton 4506 configuration is provided in the "PBSC Network Inventory.pdf" file. The Palm Beach Gardens is configured with similar components as the Boca Raton 4506.*

**Question:** The current core infrastructure does not appear to be able to support the amount of 10 Gig connections anticipated. Do you desire a redundant core 10 Gig configuration as it's a best practice compared to the single core switch architecture utilized today?

**Answer:** *Whatever your source of best practices for network backbone throughput design dictates is the guideline you should follow in preparing your response.*

**Question:** It is stated that the access layer switches all be 802.3af capable as well as support for 10 Gigabit connections. Do you expect each IDF closet to utilize redundant fiber pairs to support an active and standby 10 Gig connection back to the core, or do you wish to only use a single, non redundant uplink connection?

**Answer:** *Attachment B, Clause 2.02(A)(8), page 3 indicates access switches shall support 10/100/1000 Mbps devices.*

*Attachment B, Clause 2.02(A)(15), page 3 indicates PoE is required for the campus typical access switch.*

*Indicate your solutions roadmap or ability to support 10G for the NOC server access switches per Attachment B, Clause 2.02(B)(3), page 6.*

*Redundant network connections from the access to the core is not listed as a requirement. However, your selected source for best practices along with the network usage outlined in the bid documents should dictate if you recommend and propose redundant connections.*

*The PoE solution should support 802.3at power on any PoE port simultaneously.*

**Question:** Is there available fiber from each IDF closet back to the core at each location regardless of how the IDFs are daisy chained today, or are we to follow the charts on the drawings T401 through T405 that specify each IDF closet's connectivity back to the core?

**Answer:** *Follow the T400 series drawings.*

**Question:** The as is drawings show a cisco SR2024 but it does not appear in the inventory list

**Answer:** *The SR2024 is out of scope.*

**Question:** The as is drawings show a 3548 but that does not appear on the inventory list

**Answer:** *The 3548 shown on the drawings is listed as a 3500 48P on the inventory list.*

**Question:** The as is drawings show a 3550-48. Are these included in the 3550 count on the inventory list?

**Answer:** *All 3550s identified in Attachment A Clause 2.02(C)(10) summary inventory are 48 port (this does not include the 3550-12G).*

**Question:** The as is drawings for the existing network show cisco catalyst 2948s, yet they do not show up in the inventory list.

**Answer:** *The Cisco 2948 shown on the as-is drawings should be added to the inventory list.*

**Question:** You mentioned you wanted all hardware shipped and received by March 17th? As the schedule of installation is determined, would it not make more sense to have equipment shipped as needed?

**Answer:** *The systems must be shipped and received by the local implementation team by April 17, 2012 per RFP, Section B, page 7.*

**Question:** It was mentioned in the bidder's conference that in addition to replacing the existing APs in their currently installed locations, it was desired to add 60 APs. Can you provide drawings showing the areas where the new APs are to be installed and document where existing APs are in those areas (if any)?

**Answer:** *The vendor shall provide sixty wireless access points and antennas in addition to the existing quantity identified. Drawings showing the coverage areas are not available at this time. The vendor shall conduct a WLAN survey to validate coverage of the additional sixty access points prior to installation. Palm Beach State College will provide to the successful vendor floor plans in AutoCad format identifying the areas to be covered by the additional sixty access points. The vendor will be responsible to conduct a physical survey of the coverage area to identify interior wall construction material. The vendor is not responsible to supply or install the horizontal cabling or pathway from the network closets to the new access point locations.*

**Question:** Has the existing, non End of Life gear been fully depreciated?

**Answer:** *Not all of the non End of Life equipment has been fully depreciated.*

**Question:** For clarification, can the MDF/IDF/Room where all of the Campus Switch or Campus Cores are located be identified for each campus? Alternatively, can the location where all of the fiber drops that are listed going to the Campus Switch or Campus Core are actually terminated be identified?

**Answer:** *Refer to T300 series drawings and the "PBSC Network Inventory.pdf" file. A search for the existing core switch model numbers will identify the corresponding room locations.*

**Question:** Do you currently utilize a network management application for wireless APs? If so, what quantity of devices are you licensed for?

**Answer:** *The college currently has licenses for 250 devices.*

**Question:** If a product carries a lifetime warranty would the college settle for a set of two spares per campus instead of a 5% spares?

**Answer:** *The quantity of spares shall be provided as specified.*

**Question:** Will the College be responsible to the support and maintenance of existing current equipment that will be incorporated into the new design?

**Answer:** *The college will continue to be responsible for any maintenance contracts on existing systems that are incorporated into the new design.*

**Question:** Does the College have a specific change order process to be implemented with this project?

**Answer:** *Any changes in the network requirements will follow the College's standard project management processes.*

**Question:** Will the College entertain an alternate response for the wireless portion of the project? In other words can we respond with more than one wireless solution?

**Answer:** *Alternate responses are acceptable. Alternate responses shall be clearly identified with respect to cost and the ability of the alternate system meeting the requirements specified within the RFP.*

**Question:** Will the College purchased equipment outright or can an advantageous leasing proposal be submitted with the response?

**Answer:** *Provide purchase pricing based on the RFP requirements.*

**Question:** Would the College want to utilize a technology recycling company to dispose of end of life equipment that will not be repurposed?

**Answer:** *The vendor is responsible for disposing of equipment per Attachment A Clause 3.01, page 10.*

**Question:** In drawing T401 Table 1, room CS136 is listed twice. Is this double listing of CS136 in error. Or is one of the CS136 mislabeled?

**Answer:** *The requirement for CS135 is listed twice in error.*

**Question:** What is the estimated average power requirement per PoE port? If the max is calculated for each the power feeds for each closet will be high and costly. What will the mix be, cameras, phones, Aps?

**Answer:** *There will be a mix of VoIP, security cameras, IP based security call stations and access points. The PoE solution should support 802.3at power on any PoE port simultaneously.*

**Question:** Referring to Attachment B, Part 2.02. A.16

Are there any plans to also utilize 802.11a. Are there any outdoor Campus locations where wireless coverage will be needed.

**Answer:** *802.11a is not listed as a requirement. All existing and new AP are indoor type.*

**Question:** In drawing T401 Table 1, room IT119 does not list port counts. Can you clarify the access switch port requirements of IT119?

**Answer:** *The port counts for Lake Worth IT119 (NOC) shall include:*

- 1.) 144 ports with a minimum of 48 ports PoE to support the IT building workstation devices. Refer to "PBSC Network Inventory" closet location ITA119, rack C8.*
- 2.) Attachment "A" clause 2.02(B)(2)(a) indicates there are approximately 146 servers in the Lake Worth NOC. Also refer to the "PBSC Network Inventory" closet location ITA119 for the physical placement and connectivity of the existing network devices.*
- 3.) The proposed solution by the vendor shall include the replacement (as necessary based on end-of-life and all other requirements specified) of the workstation, server and network services hardware connectivity within the NOC.*

**Question:** Referring to ATTACHMENT A, section 2.02. C.4 How is the Cisco AIR-LOC2710-L-K9 utilized?

**Answer:** *The WLAN management requirements are specified in Attachment B, Clause 2.02(B), page 6. Whatever your source of best practices for network wireless management design dictates is the guideline you should follow in preparing your response.*

**Question:** Referring to ATTACHMENT A, section 2.02.C.10 Are all the current access points listed Controller Based units? Only 65 are designated as LAP models which normally indicates Cisco Lightweight models.

**Answer:** *All of the existing access points are controller based unites.*

**Question:** A previous question asked about Attachment B sections 2.02.17 and 2.02.18. To be clear, does the RFP terminology of Edge Devices refer to edge access layer switches in the IDFs, edge network perimeter devices including routers, IPS, firewalls, WAN acceleration, etc, or some other type of equipment?

**Answer:** *Edge devices are the customer owned equipment that interfaces with the wide area network.*

**Question:** In Attachment B, Section 2.02.A.7 lists the requirement for the solution to "scale to a network architecture that can support 10Gbps Ethernet in the PBC and FLR backbone network." Does this minimum performance requirement extend to the DMZ Firewall, IPS, DMZ Switch, Edge Firewall, WAN Optimization, Traffic Shaping, and Core Switch? There would appear to be little value in scaling the Internet Edge routers for PBC and FLR to 10G if the throughput is immediately dropped to 1Gbps firewall throughput, IPS throughput, Traffic Shaping throughput, or connections from these devices to the DMZ or Core Switch. Please provide clarification as to the intent of this requirement.

**Answer:** *The DMZ does not need to scale to 10Gbps. The connectivity from FLR and PBC should scale to 10Gbps throughput to the Campus Core.*

**Question:** In Attachment A, Section 2.02.C.10 do the Cisco Catalyst 3560X Device Models in the Summary Inventory of Existing Network Equipment currently have any Network Modules or Service Modules? If so, what is the count of each type of module?

**Answer:** *There is a C3KX-NM-1G network module installed in each 3560X.*

**Question:** In Attachment A, Section 2.02.C.10 the Summary Inventory of Existing Network Equipment lists a Cisco Catalyst 3712 device. Cisco does not have a Catalyst 3712 product. What is the correct part number for this Device Model?

**Answer:** *Revise model 3712 to Cisco WS-C3750G-12S.*

**Question:** In Attachment A, Section 2.02.C.10 does the Summary Inventory of Existing Network Equipment column for Quantity include the devices In Storage Room, or is the total amount of each Device Model the sum of Quantity and In Storage Room, if Section 2.02.C.10 is the official list of existing equipment?

**Answer:** *The quantity of equipment listed in Attachment A summary inventory does not include the spare equipment required as per Attachment B 1.01(A).*

**Question:** In Attachment A, Section 2.02.C.10 is the Summary Inventory of Existing Network Equipment to be the official list of existing equipment for the RFP, or should each respondent use the provided Palm BeachStateNetworkInventory.pdf file on the bid site?

**Answer:** *There have been some revisions to quantity and type of equipment since the survey listed in the "PBSC Network Inventory.pdf" file. The summary inventory in Attachment A is the current type and quantity.*

**Question:** Is the Cisco 4506 located in the Lake Worth Data Center the current Campus Core Switch?

**Answer:** *Yes.*

**Question:** Is there currently a NOC core switch and if so what is the model and the particulars?

**Answer:** *Currently the 4506 switch at Lake Worth is functioning as the core switch for all the building workstation distribution/access switches and the NOC server access switches.*

**Question:** As I understand the current documents, there are three Cisco 4506 Core switches, and they are located at Lake Worth, Palm Beach Gardens, and Boca Raton, and they are the Campus Core Switches at each location. Is this correct?

**Answer:** *Yes that is correct.*

**Question:** In Attachment A, Section 2.02.C.10 how many of the Cisco Catalyst 3560X-48PF-L devices in the Summary Inventory of Existing Network Equipment have secondary power supplies?

**Answer:** *They do not have secondary power supplies.*

**Question:** Do the Access Points need to be Plenum Rated? It was stated that cabling above the ceilings was to be considered plenum rated required, but does everything above the ceilings need to be plenum rated?

**Answer:** *The vendor shall include plenum rated lockable enclosures to be mounted in a dropped ceiling for all existing and the 60 additional access points.*

**Question:** Would it be possible to get attachment B in word format?

**Answer:** *Yes*

**Question:** Are all of the ports in the following locations considered behind the Infrastructure Firewall/IPS, or are some of the ports utilized for the devices behind the Firewall/IPS and some of the ports utilized for devices that would be placed logically outside of the firewall?

Lake Worth - IT 119 (none specified)

Palm Beach Gardens - LC113.3 (240 ports)

Boca Raton - AD 313 (96 ports)

Belle Glade - CR 211 (96 ports)

What is the count for the total number of ports required for Lake Worth IT 119, and how is that total broken out as far as behind or in front of the infrastructure firewall/IPS? Should prospective vendors use the NetworkDrawing2.vsd and Palm Beach State Network Inventory.pdf to determine what the number of existing ports for IT 119 and provide an equivalent number of ports, and if so what percentage or port count is divided between the in front of and behind the infrastructure firewall/IPS? The inventory document shows a large number of existing ports in ITA119.

**Answer:** *The network services and NOC (data center) servers are behind the Infrastructure Firewall/IPS. All faculty, staff and student access switches are outside the Infrastructure Firewall/IPS.*

*The ports counts for LC113.3, AD313 and CR211 should be verified with Table #1 on the T400 series drawings, answers to other questions asked, and any addendum issued.*

*The port counts for Lake Worth IT119 (NOC) shall include:*

- 1.) 144 ports with a minimum of 48 ports PoE to support the IT building workstation devices. Refer to "PBSC Network Inventory" closet location ITA119, rack C8.*
- 2.) Attachment "A" clause 2.02(B)(2)(a) indicates there are approximately 146 servers in the Lake Worth NOC. Also refer to the "PBSC Network Inventory" closet location ITA119 for the physical placement and connectivity of the existing network devices.*
- 3.) The proposed solution by the vendor shall include the replacement (as necessary based on end-of-life and all other requirements specified) of the workstation, server and network services hardware connectivity within the NOC.*

**Question:** A question was asked about network access control. Does Palm Beach State College differentiate between "network access control" and "network admission control?" Does the requirement for network access control include posture assessment of end-devices to ensure they are properly patched, have anti-virus, etc, before being allowed on the network? Is profiling of devices that can not install a posture assessment client, such as printers and other devices, required? Is authentication required before devices are allowed on the network? Is authorization required for devices after authentication, such as through downloadable access lists or other control mechanisms? Are VPN clients required to be posture assessed? Would Microsoft Active Directory be the back-end database for user authentication?

**Answer:** *The College requires NAC for all wired and VPN clients. Network Access Control should be based on industry standards or, if functional benefits warrant, manufacturer's proprietary solutions. The NAC solution shall integrate with Active Directory as the backend database. The use of Windows, Macintosh OS, and Smartphone operating systems shall be supported by the NAC. Whatever your source for best practices of network access control design dictates the guideline you should follow in preparing your response.*

**Question:** Do you intend to utilize multiple SSID's on the Wireless?

**Answer:** *We currently have multiple SSIDs on the wireless network.*

**Question:** What type of authentication will you be doing for all wireless users?

**Answer:** *Users must authenticate against the College's Active Directory.*

**Question:** There are actually several "End of Life" milestones when it comes to Cisco products. Should equipment be considered End of Life immediately after the End of Life Announcement is released, or at the End of Sale, Last Ship Date, End of Software Maintenance, End of Routine Failure Analysis, End of New Service Attachment, End of Service Contract Renewal, or Last Day of Support milestones? If additional End of Life Announcements are released, or have been released, between the time of the RFP Bid Opening and the Bid Due Date, should the products covered under those announcements be considered End of Life?

**Answer:** Attachment B, Section 2.03(A) defines non-end-of-life as "service contract is still available." Consider any equipment that cannot be covered by a manufacturer's maintenance or service agreement as of January 20, 2012 as end-of-life.

**Question:** The "T-400" series Visio diagrams provided clearly show the "Infrastructure Firewall/IPS" at Lake Worth and Palm Beach Gardens with 10G connectivity. The Boca Raton and Belle Glade locations do not note the throughput requirements. Are 10G firewall/IPS devices a requirement for the Boca Raton and Belle Glade locations, or is the intent to provide 10G connectivity throughout the campus but limit bandwidth to the Media Services, Systems Center, Active Directory, and Print Services to some smaller number, such as 1G or possibly several hundred megabits?

**Answer:** The Infrastructure Firewall and IPS connectivity at Boca Raton and Belle Glade should be 10G.

**Question:** How many points are deducted if vendor was unable to attend the Pre-Bid Meeting?

**Answer:** Attendance to the pre-bid meeting was a pre-requisite to bid submission. The meeting was mandatory and would therefore be considered a non-responsive bid and not be evaluated by the committee.

**Question:** Is a list of attendees made public?

**Answer:** This document is available as part of the laws that require public disclosure. This is not something that is posted but would need to be requested. According to the law, we would have 30 days to provide this document after an official public records request is made. As a courtesy, one can be obtained in person at the Purchasing Department at Palm Beach State College, or a request can be mailed with a SASE to the purchasing department.

**Question:** If so where can it be viewed?

**Answer:** See answer above

**Question:** The Question has been asked, is it possible to eliminate the distribution layer and connect each IDF directly to the core.

17. If it is possible to connect directly from each IDF to the core, does the OM fiber from each closet reach the core?

- a. Are the fiber runs less than 300 meters?
- b. If the OM1 multimode fiber does not go to the core switch for each IDF, is there single mode fiber that would run from each IDF to the core ?

**Answer:** Each network closet in Table #1 of the T400 series drawings noted with the uplink to the "Campus Switch" is provisioned with 24 strands of OM1 and 12 strands of single mode fiber back to the core. Exact distances of the existing fiber optic cable are not known. Any uplinks in Table #1 of the T400 series drawings identified as single mode are in excess of 300m, uplinks identified as OM1 are 300m or less.

**Question:** Can we eliminate the distribution layer? Is there enough fiber to go from each closet to the campus core?

**Answer:** There are sufficient existing fiber strands to eliminate the distribution layer except for the fiber from ETA221 to the NOC on the Lake Worth Campus. The quantity of network closets supported from ETA221 exceed the number of fiber pairs between ETA221 and the NOC.

**Question:** Do you use 802.1x today? Do you use radius? If Yes what Server do you use?

**Answer:** 802.1x or Radius is not used. Currently the Bluesocket enables authentication with AD via LDAP. Vendors shall use your source for best practices in network authentication design in preparing your response.

**Question:** Do you only want PoE switches to cover your minimum amount of ports listed on the tables in the network drawings or do you want all edge ports to be PoE?

**Answer:** *The PoE ports identified are the minimum required. The vendor shall use their source for best practices for network design to guide access (edge) switch design.*

**Question:** Is a list of recommended training classes required or the actual class tuition requested?

**Answer:** *Vendor to indicate recommended training and include in bid all costs associated with providing the recommended training for up to four Palm Beach State College network engineers. Vendor to indicate if training will be provided on customer's premise or at vendor/manufacturer facility.*

**Question:** What is the average height of where the existing Aps are mounted? Are any in the gym over 15 feet high?

**Answer:** *APs are mostly mounted in ceilings, at a height of 12 – 15 feet. There are no APs in the gym.*

**Question:** Do we need to test all fiber or just the fiber we will use?

**Answer:** *Just the fiber that will be used.*

**Question:** For the UPSs, what is the average power budget per closet? May we present sm, med, and lg, UPS pricing and determine the number of each after award?

**Answer:** *The power budget per closet will be based on the vendor's solution. The UPS capacity requirements are specified in Attachment B, clause 2.04(C)(3) and the UPS battery capacity and run time requirements are specified in Attachment B, clause 2.04(C)(4), on page 9.*

**Question:** Can work on the access layer, closets, be done M-F 8-5 or is Sunday the only day?

**Answer:** *Work on the access layer closets has to be scheduled to ensure that users at the College do not have interruptions. The work will be done during College off hours, typically between 11pm and 6am M-F, after 6pm Saturday and all day Sunday.*

**Question:** You mention references, is there a certain number you are looking for or points you would consider important when looking at a reference account?

**Answer:** *Vendors shall provide a minimum of three references. Provide a brief description of each project, contact information, and identify vendor's key personal involved on the referenced project and their role. It is preferred that the referenced projects include the vendor's design and implementation project manager(s) as part of the key personal involved on the project.*

**Question:** On Appendix A there is a signature line. Does this signature need to be an original ink signature or is electronic sufficient?

**Answer:** *Manual signature in original ink is required.*

**Question:** In Section C1 Letter B states the RFP response is due back via "electronic copy". Is electronic copy email or a CD? If email is there a size limit on emails received?

**Answer:** *A flash drive / thumb drive / USB drive is the acceptable device for which a single pdf copy of the manual submission should be stored and submitted.*

**Question:** Are the network drawings in the "Network Drawing" attachment to the RFP different phases of current vs. future for the network?

**Answer:** *The T200 series of drawings is a WAN overview, the T300 series of drawings are the current state of the network and the T400 series of drawings are the desired state of the network.*

**Question:** What state of the network does the T201 drawing depict? (Current, projected future)?

**Answer:** *Current.*

**Question:** What state of the network does the T301-T306 drawings depict? (Current, projected future)?

**Answer:** *Current.*

**Question:** What state of the network does the T401-T405 drawings depict? (Current, projected future)?

**Answer:** *Future.*

**Question:** T401 table 1 lists uplinks for many switches as Campus Switch. Yet no drawings or tables list the campus switch or the requirements. What is the current model of the campus switch and what are the future requirements for it.

**Answer:** *The "Campus Switch" is shown on drawing T401.*

**Question:** Drawing T301 has a switch labeled AD224 yet that switch is not listed on drawing T401 Table 1 nor is it in the Palm Beach State Inventory PDF document. Is this switch still required, and if so what are the requirements?

**Answer:** *The room was previously named AD224 but has since been re-named to AD207.3 by facilities.*

**Question:** Drawing T301 has 3 switches listed as AH207, however That designation is listed twice on T401 table 1 as AH207.3 with 72 ports going to the campus switch, and as AH207 with 192 ports going to AH101.1. What is correct in this?

**Answer:** *Drawing T401 properly identifies the port requirements for AD207.3 and AH207.*

**Question:** Drawing T301 has an 8 port fiber switch listed as AH101.1 and a 48 port cisco 3560 switches listed as AH101.1, however the network inventory shows those two as AH101.2 and T401 table 1 lists an AH101.2 with only 48 ports copper. What is correct?

**Answer:** *The room was previously named AH101.1 but has since been re-named to AH101.2 by facilities. Provide the port counts identified on drawing T401.*

**Question:** Network Inventory lists a switch AU164, yet it is not listed on T301 nor on T401 table 1. Is this switch still required and what is the particulars and what does it uplink to?

**Answer:** *Drawing T301 properly identifies the existing switch in AU164.*

**Question:** Drawing T401 table 1 lists switches AH207 and AH308 terminating on AH101.1, but the table does not list an AH101.1. Is there an AH101 Switch, and if so what is the requirements and what is the uplink?

**Answer:** *The room was previously named AH101.1 but has since been re-named to AH101.2 by facilities. The switches in rooms AH207 and AH308 should have uplinks to room AH101.2.*

**Question:** Network Inventory and T301 show two 48 port copper switches as BK109.3, yet T401 table 1 lists BK109.3 as only being 48 ports. What is correct and what is needed?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** Network Inventory and T301 list BA101.1 as a copper switch with 48 ports, however T401 table 1 lists it as having 72 ports and has BA201.1 of one switch and BA301.1 with three switches all connecting to BA101.1 via fiber. What are the proper requirements for these switches?

**Answer:** *The "Total Ports" and "PoE Ports" identified on Table #1 of all T400 series drawings are the quantity of ports required for workstation and AP (or other PoE devices) connections. Any ports required to support uplinks to other switches are in addition to the "Total Ports" and "PoE Ports" identified on Table #1 of the T400 series drawings.*

**Question:** Network Inventory and T401 table 1 list a BA135 24 port switch, however it is not on T301. What are the requirements for this switch?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** Network inventory and T401 table 1 list a CF120 but T301 does not have this switch, it lists a CF119. What is correct?

**Answer:** *The room was previously named CF119 but has since been re-named to CF120 by facilities. Provide the port counts identified on drawing T401.*

**Question:** Network inventory and T401 table 1 list a CE204 but T301 does not have this switch. Is this switch required?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** T401 table 1 lists CRA106 as 96 ports, T301 lists it as 3 48 port switches and the network inventory does not list it at all. What is the correct requirement for this switch?

**Answer:** *Provide the port counts identified on drawing T401. CRA106 is identified in the "Network Inventory".*

**Question:** T401 table 1 lists CRB105.1 as 48 ports, however T301 and the network inventory do not even list this switch. What is the correct requirement for this switch?

**Answer:** *Provide the port counts identified on drawing T401. CRB105.1 is identified in the "Network Inventory" and drawing T301.*

**Question:** T301 shows switches CJA119.1, CJC108, and CJE115, however none of them are on T401 table 1 nor the network inventory. What is correct? Are these switches required and if so what are the connectivity requirements?

**Answer:** *The room was previously named CJA119.1 but has since been re-named to CJA130.1 by facilities. Provide the port counts identified on drawing T401. Consider CJC 108 and CJE115 out of scope and should not be included in your response.*

**Question:** T401 table 1 lists CS136 as a 24 port switch however T301 and the network inventory list it as a 48 port switch. What are the correct requirements?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** T401 table 1 lists CT131 as 96 ports which is two switches, however T301 has it listed as two 48 port switches and 3 24 port switches, and the network inventory has it listed as two 48 port switches and two 24 port switches. What are the correct requirements?

**Answer:** *Refer to drawing T401 table #1 and revise room CT131 to 192 Total Ports and 22 PoE Ports.*

**Question:** T401 table 1 lists CF120 connected to CT131, however T301 lists a switch CF119 connected to CT131. What are the correct requirements?

**Answer:** *Provide the uplinks identified on drawing T401.*

**Question:** T401 table 1 and network inventory list a CJA130.1 48 port switch, however T301 does not list that switch. What are the correct requirements?

**Answer:** *The room was previously named CJA119.1 but has since been re-named to CJA130.1 by facilities. Provide the port counts identified on drawing T401.*

**Question:** T401 table 1 lists DW111 as 72 ports, however network inventory and T301 list it as 48 ports. What are the correct requirements?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** T401 table 1 lists ETA217 as 96 ports, however network inventory lists it as one 24 port switch and T301 lists it as three 48 port switches. What are the correct requirements?

**Answer:** *Refer to drawing T401 table #1 and revise room ETA217 to 240 Total Ports and 22 PoE Ports.*

**Question:** T401 table 1 and network inventory list ETA155 as 144 ports, however T301 lists only two switches. What the correct requirements?

**Answer:** *Provide the port counts identified on drawing T401.*

**Question:** Section C2.c of the proposal, Evaluation Criteria - Review Process states:

"Palm Beach State College recognizes that multiple manufacturers will likely be required within each vendor's proposed solution. Solutions that incorporate best of breed components for specific functions such as firewall, IPS, traffic shaping, wireless, etc., will not result in a reduced score due to multiple manufacturers proposed. Proposed solutions that incorporate multiple manufactures without functional benefits to Palm Beach State College may result in a reduced score"

If a single manufacturer is utilized for all product categories, and one or more of the products is not "Best of Breed" as evaluated by the vendor, Palm Beach State College, general industry consensus, or other criteria, will this result in a reduced score? Rephrased, what is the relative weight Palm Beach State College places on Best of Breed products as compared to single manufacturer?

**Answer:** *The proposal will be weighted per the RFP clause C2 (b) on page 11. All components or systems must meet the requirements within the RFP. Proposed solutions that incorporate multiple manufactures without functional benefits to Palm Beach State College may result in a reduced score as per the weighting in RFP clause C2(b)(I) on page 11.*

**Question:** As a separate but related question, is the RFP to be interpreted that Best of Breed products are a requirement of the RFP?

**Answer:** *Best of Breed is not a specified requirement in the RFP.*

**Question:** Attachment A Section 2.02.A.2. states:

"A complete version of the survey will be available separately."

Can a complete version of the application survey be posted on the RFP web site?

**Answer:** *Yes. The list represents applications identified on servers on January 28, 2010.*

**Question:** Section C5.a Execution - Performance of Services states:

"Vendor shall be responsible to daily backup systems and configurations during the configuration and testing phases of the implementation."

Is this requirement limited to cover the systems and configurations of the products included in the proposal, or does the daily backup of systems and configurations entail other systems at the Palm Beach State College? If other systems are included, what systems, capacities, and backup solutions are currently in use? Is the intention of this statement to hold the vendor responsible for the loss of any configurations or other settings of any equipment included in the proposal and configured by the vendor due to any power loss, equipment malfunction, or other event that results in the loss of work performed, and absolve Palm Beach State College from any liability from such loss? Will the vendor be required to provide Palm Beach State College with copies of the daily backup systems and configurations at completion of the project, at designated project milestones, or on a periodic basis?

**Answer:** *The vendor is responsible for daily backup of all existing and new network devices (layer 2 and layer 3) throughout the project until system acceptance. The daily backups are intended to provide rapid recovery from misconfigurations which may lead to lost switches, routing or VLANs. The vendor shall provide copies of the latest backups to Palm Beach State College at project milestones agreed to by Palm Beach State College and the vendor. Palm Beach State College currently uses Cisco Discovery Protocol (CDP) to propagate information throughout the network. CDP is not a requirement for the new network. However, the vendor will be responsible to coordinate the migration, if required, from CDP to IEEE 802.1AB or any other link layer protocol recommended by the vendor.*

**Question:** Regarding existing and future WLAN coverage, can you provide detailed interior building maps that are to scale so that an accurate predictive site survey can be conducted?

In addition, can you provide details regarding the interior wall construction material for each location where WLAN coverage is required?

If this information cannot be supplied, can you please clearly identify the locations where you like APs to be deployed?

**Answer:** *The existing WLAN access points are to be replaced in their current location; vendor is not required to conduct survey for existing WLAN locations. The quantity of existing WLAN access points is identified in Attachment "A", clause 2.02(C) (10) on page 6.*

*The vendor shall provide sixty wireless access points and antennas in addition to the existing quantity identified. The vendor shall conduct a WLAN survey to validate coverage of the additional sixty access points prior to installation. Palm Beach State College will provide to the successful vendor floor plans in AutoCad format identifying the areas to be covered by the additional sixty access points. The vendor will be responsible to conduct a physical survey of the coverage area to identify interior wall construction material. The vendor is not responsible to supply or install the horizontal cabling or pathway from the network closets to the new access point locations.*

**Question:** Regarding the requirement in 2.03 A, the Cisco WLC4404 is not shown as EoL on your matrix (in appendix A), however, according to Cisco's website, the WLC4404 is EoL. Is it your expectation that a non-Cisco WLAN controller be provided at no charge?

**Answer:** *Refer to the table in Attachment "A", clause 2.02(C) (10) on page 6, the Cisco WLC4404 shall be considered "End of Life" and replaced within the scope of this project.*

**Question:** Can you provide the fiber distance from closet to Core. We have 10 Gigabit LRM Long Reach Multimode SFP's/Gbics/Transceivers which allow you to go greater distances than the standard 10GB SR Optic. We can use the 10GB-LRM SFP instead of using the more expensive 10GB-LR - Single Mode SFP.

**Answer:** *Exact distances of the existing fiber optic cable is not known. Any uplinks in Table #1 of the T400 series drawings identified as single mode are in excess of 300m, but the exact length is not known.*

**Question:** Is it required to have a wireless controller per site or would it be possible to propose a single wireless controller HA pair?

**Answer:** *Wireless controller to be a centralized solution per Attachment "B", clause 2.02(A) (16) (b) on page 4.*

**Question:** Does each campus have its own AD? PDC?

**Answer:** *AD is a single forest for all physical locations and all domain controllers are located in the Lake Worth data center.*

**Question:** Is there one AD for all campuses.

**Answer:** *There is one AD forest for all campuses.*

**Question:** Is there a desire to control all wireless and wired security policies from a single location/pane of glass?

**Answer:** *All wireless security policies shall be from a single pane of glass. All wired security policies shall be from a single pane of glass. Palm Beach State College will consider all wireless and all wired security policies from a single pane of glass based on the vendor's recommendations.*

**Question:** Do you have the need to address BYOD? IPAD's, Tables, Androids, Blackberries?

**Answer:** *The wireless user community has the full spectrum of devices available.*

**Question:** Do you require Network Access Control Capabilities?

**Answer:** *Network Access Control is required.*

**Question:** If Network Access Control Capabilities are included in both the wired and wireless solution at no extra cost is that a value add for the University?

**Answer:** *Network Access Control is required.*

**Question:** If our solution includes virtual firewall like capability on every switch port and every access point taking most of the firewall decisions and moving it to the edge and allowing you to keep your existing firewalls and allowing a more secure network. Would that be acceptable?

**Answer:** *The vendor shall use their source for best practices for network design to guide firewall specifications, while meeting the requirements specified in the RFP.*

**Question:** Can you make the RFP available in word format?

**Answer:** *The RFP is only available in a PDF format.*

**Question:** Maintenance costs for networking equipment can be very, very expensive. Some manufacturers charge as much as 10% of list price for maintenance support and when you add 4 hour response, the costs of maintenance can go through the roof. The University can save hundreds of thousands of dollars, even millions of dollars depending on the maintenance plan chosen for the networking equipment. You have requirements for 24/7/365 and 4 hour response on everything. The cost for 4 hour response can be very expensive. If our products offer a lifetime warranty on the edge switches which includes next business day. Will the University accept a plan of simply purchasing 1 or two spare edge switches and saving the premium dollars that would be spent on 4 hour response?

**Answer:** *The vendor shall meet the network maintenance requirements specified in the RFP. Optional cost saving opportunities can be presented for Palm Beach State College's consideration.*

**Question:** Our wireless controllers also offer lifetime warranty and only 1 is required. Can you live with the lifetime warranty that comes with the product and save the 4 hour response dollars?

**Answer:** *The vendor shall meet the network maintenance requirements specified in the RFP. Optional cost saving opportunities can be presented for Palm Beach State College's consideration.*

**Question:** Our Wireless Access Points offer a lifetime warranty. Can the University live with the lifetime warranty and keep a few spares per campus and save the premium dollars for 4 hour response?

**Answer:** *The vendor shall meet the network maintenance requirements specified in the RFP. Optional cost saving opportunities can be presented for Palm Beach State College's consideration.*

**Question:** Section C5.a Execution - Performance of Services states:

"For work required to be performed outside of normal business hours, vendor shall submit a request to Palm Beach State College for approval indicating date, duration, work to be performed, and technicians required."

What lead-time is required for requests for work outside of normal business hours?

**Answer:** *One week.*

**Question:** As a separate but related question, is the RFP to be interpreted that Best of Breed products are a requirement of the RFP?

**Answer:** *Best of Breed is not a specified requirement in the RFP*

**Question:** There is a pre-bid meeting Jan 5 at the Lake Worth campus. Can you give us a time and location when we will be meeting?

**Answer:** *1pm, [NS 129 Building, Lake Worth Campus](#), 4200 Congress Avenue, Lake Worth FL 33461*

**Question:** "Palm Beach State College recognizes that multiple manufacturers will likely be required within each vendor's proposed solution. Solutions that incorporate best of breed components for specific functions such as firewall, IPS, traffic shaping, wireless, etc., will not result in a reduced score due to multiple manufacturers proposed. Proposed solutions that incorporate multiple manufactures without functional benefits to Palm Beach State College may result in a reduced score"

If a single manufacturer is utilized for all product categories, and one or more of the products is not "Best of Breed" as evaluated by the vendor, Palm Beach State College, general industry consensus, or other criteria, will this result in a reduced score? Rephrased, what is the relative weight Palm Beach State College places on Best of Breed products as compared to single manufacturer?

**Answer:** *The proposal will be weighted per the RFP clause C2 (b) on page 11. All components or systems must meet the requirements within the RFP. Proposed solutions that incorporate multiple manufacturers without functional benefits to Palm Beach State College may result in a reduced score as per the weighting in RFP clause C2(b)(l) on page 11.*

**Question:** Per the RFP Schedule (B2), vendor questions are due 1/17/2012. When does the College expect to provide answers?

**Answer:** *The same date as the Final Addenda Issued date, January 24, 2012.*

**Question:** Will the College entertain a proposal with options?

**Answer:** *Yes, as long as all options meet all of the requirements as presented in the bid specification.*

**Question:** Is it possible to get the Visio drawings in digital format?

**Answer:** *Yes.*

**Question:** Does the College have a BGP AS number? If so, do you currently exchange routing information with your providers?

**Answer:** *Yes, we have a BGP AS number and exchange routing information with our providers.*

**Question:** What speed is being considered with the IPS system, as a choke point is mentioned in the Attachment B, Part 2.02, question 4a?

**Answer:** *The line speed of the IPS should be at least the same as the line speed of the network segment you propose to locate the IPS.*

**Question:** In the Attachment B, Part 2.02 - question 17 refers to "all systems" - is this considered non-edge equipment, while the following question 18 refers to the edge equipment?

**Answer:** *The "all systems" verbiage is in a subsection below the main section #17, so "all systems" refers to Edge Devices, Campus Core, NOC Core, NOC Server Access, and DMZ switches only. Section 2.02.18 is for building access or MDF/IDF equipment.*

**Question:** Are architectural system designs allowed in the proposal response as attachments for reference?

**Answer:** *Yes.*

**Question:** Attachment B, Part 3.01- will onsite visits to other customers be acceptable for Proof In Concept approval?

**Answer:** *Refer to Attachment B, Part 3, clause 3.01(A) on page 11. Change "Vendor may be required to provide a Proof In Concept partial deployment of the proposed solution. Identify a range of any additional costs that may be incurred to provide, install, configure, test and verify the Proof In Concept." to read; "Vendor may be required to provide a Proof In Concept partial deployment of the proposed solution. The vendors are not required to include any costs associated with providing a proof in concept within the bids. If Palm Beach State College determines, during the review and selection of the proposed vendor solutions, that a Proof in Concept is required, any associated costs will be negotiated with the vendor(s) at that time."*

**Question:** Will there be any opportunity for the vendor to present the solution to a voting group?

**Answer:** *Per section B2 – Schedule, of the RFP, if a vendor is short listed then the vendor will be interviewed by the review committee and can provide additional solution detail as requested by the committee.*

**Question:** You mention you have an IT plan for the network, can you share that?

**Answer:** *If the question is in reference to the College I.T. plan noted in section 2.03, page 7 of Attachment B, then the plan is not specific to the network, but to the management of the IT assets of the College. As such, the plan is not for the network and would not add any value to the solution outside of the stated need to have a single management platform.*

**Question:** What network equipment do you consider not end of life and intend to keep?

**Answer:** *Attachment A, Section 2.02.C10, page 6, has a summary of equipment with designations equipment which are end-of-life and which are not. Also refer to Attachment B, Section 2.03, page 7. Palm Beach State College requires the network enterprise be managed from a single platform. The vendor must either support non-end-of-life equipment on their single management platform or replace non-end-of-life equipment with supported components.*

**Question:** What other equipment do you consider end of life and not end of life? (firewalls, load balancers, VPN concentrators)

**Answer:** *The following equipment is also considered end-of-life:*

- 1.) Two (2) Bluesocket WG-1100 units
- 2.) One (1) Bluesocket WG-2100 unit
- 3.) One (1) Nortel VPN 3050

**Question:** Do you feel that the current Cisco 4506 core switches meet the specifications you stated for a core switch?

**Answer:** *The specifications in the bid documents constitutes all of our requirements. Please evaluate all equipment against those specifications and make a recommendation to either keep in place, redeploy or retire the equipment within your enterprise network solution.*

**Question:** Your current network seems to have several switches daisy chained off of other switches. Do you want all Access Switches directly connected back to a Distribution layer switch?

**Answer:** *Whatever your source for best practices for network design dictates is the guideline you should follow in preparing your response. Daisy chaining within the same closet should be avoided unless there is a functional or cost benefit based on the vendor's solution.*

*Refer to T400 series of network drawings. The Palm Beach Gardens campus is the only campus that requires daisy chaining from LC113.3 Building MDF to other campus Building MDFs and downstream access switches, due to existing fiber optic infrastructure interconnecting the campus buildings. All other campuses can support access switches linked to a common distribution switch within each building, and each distribution switch linked to the Campus Core Switch.*

**Question:** Do you have sufficient spare fiber to be able to put in new switches and then cut users to the new network switches?

**Answer:** *Yes.*

**Question:** Can you provide more detailed information on the network connectivity from the access switches to the campus switch?

**Answer:** *Access layer connectivity is explained in Attachment A, Section 2.02.C.1.a (2), page 4 and in the drawings in the Network Drawings posting on the bid website.*

**Question:** What switch is designated as the campus switch or switches?

**Answer:** Refer to drawing T401. The vendor can select whether a Campus Switch is required within their solution. The vendor can choose if there are functional and/or cost benefits of terminating all campus Building MDF switches in the Campus Core Switch.

**Question:** How do you want to connect access layer switches up to the distribution layer switches?

**Answer:** Whatever your source for best practices for network design dictates is the guideline you should follow in preparing your response. The existing system is connected via OM1 fiber optic infrastructure, and there are spare single mode fiber strands available as well.

**Question:** You ask for a lot of redundancy, however all switches appear to be single connected to the campus and campus core switches. Do you want redundant connections from the access to the core switches?

**Answer:** Redundant network connections from the access to the core is not listed as a requirement. However, your selected source for best practices along with the network usage outlined in the bid documents should dictate if you recommend and propose redundant connections.

**Question:** Is the Data Center really the NOC network? If not where is it?

**Answer:** The data center is the NOC network.

**Question:** Do you do layer 3 only at the core, or is it down to the distribution or access layer switches?

**Answer:** Only at the core.

**Question:** What routing protocols do you use and where do you use them?

**Answer:** BGP at the edge, OSPF on the internal network.

**Question:** How do you intend to segregate campus traffic from DC/NOC traffic?

**Answer:** The T400 series network drawings show the NOC provisioned with dedicated firewalls and NOC core switches. The vendor shall provide their logical network and routing recommendations that meet the requirements of Attachment B based on their source of best practices for network design.

**Question:** Can you discuss your data center plans? Are you moving to 10G? How fast will you be moving to 10G? Do you have plans for convergence (FCOE/10G/CNA's)? Will you continue to move to a VM environment? Do you plan to deploy other hypervisors?

**Answer:** Refer to drawing T401 and the RFP Attachment B, Section 2.02.A. The VM strategy, as stated, is to virtualize whenever feasible. Microsoft Hyper-V is under evaluation and may be deployed in production in the future alongside the existing VMWare virtualization environment.

**Question:** Can you share your fiber map?

**Answer:** We do not have a current fiber map. Table #1 on each of the T400 series drawings identifies the location of the uplinks for each switch. The campus maps show the relative location of each network closet in each building, and each building on the campus.

**Question:** Do you have a list of known choke points in the network?

**Answer:** The only known choke point is our existing firewall and only on an occasional basis.

**Question:** You ask for CAT6 Patch cables. What is the copper infrastructure today? Cat5? Cat6?

**Answer:** The copper infrastructure is a combination of CAT5e and CAT6.

**Question:** Who is verifying the ability of the fiber plant to support 10Gbit Ethernet?

**Answer:** RFP Section C5.B, page 13, calls for the winning bidder to test the fiber connections currently terminated for 10G capability and to deliver test results to the College.

**Question:** Do we need to provide different physical switches for student access? Can we consolidate access switches located in the same closets?

**Answer:** *Whatever your source for best practices for network design dictates is the guideline you should follow in preparing your response.*

**Question:** In a typical high availability network the access layer switches are connected to a distribution or core via two connections to two distribution or core switches, or continue with a single connection from the access switches?

**Answer:** *Redundant network connections from the access to the core is not listed as a requirement. However, whatever your source for best practices for network design dictates is the guideline you should follow in preparing your response.*

**Question:** At this time it looks like you have no 10GbE in the Data Center. If this is true, as we look at upgrading the DC should we provide switches supporting for 1/10GbE to enable 10GbE in the DC at a later date?

**Answer:** *Network drawing T401 shows the desire to have 10GbE connectivity from the new NOC Core Switch to all new Access switches in the data center as a result of this project. Also refer to Attachment B, Section 2.02.B.3, page 6.*

**Question:** What multicast protocol is required to support streaming video? What type of CODEC do you think you will use? How many streams do you expect to have at peak times?

**Answer:** *Streaming video today is primarily from Windows Media Server and Windows Media Encoder as well as from Tricaster (<http://www.newtek.com/tricaster.html>) in Windows Media format. Future CODEC usage is not known at this time.*

**Question:** Can you discuss / share your plans for moving to IPV6?

**Answer:** *We currently do not have a set timeline for moving to IPV6. Our ISP, Palm Beach County, is not moving to IPV6 yet, so we have little compelling us to move.*

**Question:** You specify OM1 fiber in most of the network. Do you plan on upgrading that as there are serious distance limitations on that when connecting to 10Gbit optics?

**Answer:** *There are no plans to upgrade the existing OM1 fiber as part of this project. There is existing spare single-mode fiber available. The vendor will need to determine if multimode 850nm or 1310nm wavelength interfaces, or single-mode interfaces are required to support their 10Gbit solution.*

**Question:** Who is required to certify the current fiber for 10Gbit Ethernet?

**Answer:** *RFP Section C5.b, page 13, requires that the fiber be tested by the vendor and the test results are part of the deliverables of the project.*

**Question:** POE is mentioned, POE+ is not. Do you require POE or POE+?

**Answer:** *The RFP calls for equipment bid to meet all current standards. 802.3at is the current standard from the IEEE.*

**Question:** Do you intend to have a wireless site survey completed to determine proper placement of the Wireless Access Points?

**Answer:** *Coverage areas for the existing wireless access points is available at <http://www.palmbeachstate.edu/paw>, under the Access Points heading on that page. There will be an additional set of locations and we anticipate up to 60 new access points needed beyond the replacements for the existing access points. A site survey is needed for the new coverage areas and should be included as part of the deliverable for this project.*

**Question:** What types of segregation of users are required on the wireless?

**Answer:** *The wireless network is considered a separate network and is “outside” of the production networks of the College. The wireless network provides Internet access only but users must authenticate against the College’s Active Directory to get use of the wireless network. Bluesocket wireless gateways are currently providing user authentication.*

**Question:** Do you intend to reutilize the current Nortel 3050 VPN concentrator?  
If not please provide all requirements for a replacement?

- a. Number of users.
- b. SSL or IPSEC VPN.
- c. How many of each.

**Answer:** *Vendor shall recommend an appropriate VPN solution to support:*

*Up to 100 simultaneous users with 75 SSL users and 25 IPsec users.*

*Vendor shall describe their ability to add more users/licenses if the need grows in the future.*

**Question:** What are the requirements for the firewalls and how many?

**Answer:** *Attachment B, Part 2, Section 2.02.3 specifies that the existing Checkpoint firewall solution could stay in place in the new design OR a new firewall solution/design, based on benefits expressed in your response, will be considered. The firewall solution will consist of stateful firewall pairs.*

**Question:** Do you intend to replace the Traffic Shapers? If so what are the specifications?

**Answer:** *Replacement of the existing traffic shaping equipment will be considered based on benefits to the replacement expressed in your response. The existing traffic shaping solution meets the needs of the College.*

**Question:** What are the specs for the DMZ switch?

**Answer:** *The vendor shall use their source for best practices for network design to guide DMZ switch specifications. The minimum requirements in addition to those specified in Attachment B are: 1.) 64 downlink ports, 10/100/1000 Ethernet*

*2.) Uplink port(s) upgradable to 10GbE*

**Question:** You mention a Proof of Concept. Where do you intend that to be done?

**Answer:** *Refer to Attachment B, Part 3, clause 3.01(A) on page 11. Change “Vendor may be required to provide a Proof In Concept partial deployment of the proposed solution. Identify a range of any additional costs that may be incurred to provide, install, configure, test and verify the Proof In Concept.” to read; “Vendor may be required to provide a Proof In Concept partial deployment of the proposed solution. The vendors are not required to include any costs associated with providing a proof in concept within the bids. If Palm Beach State College determines, during the review and selection of the proposed vendor solutions, that a Proof in Concept is required, any associated costs will be negotiated with the vendor(s) at that time.”*

**Question:** Of the Cisco equipment that is not listed as end of life, is it on Cisco's road map for going end of life in the near future and if so what is the date?

**Answer:** *That information is available, as of the date of this response, at [http://tools.cisco.com/search/JSP/search-results.get?isNavigation=true&strQueryText=end-of-life&strSelectedModifierValue=cdcdocumenttype%3A%3A%5E%26quot%3BEnd-of-Life+%26amp%3B+End-of-Sale+Notices%26quot%3B%24%3A%3ADocument+Type%3A%3AEnd-of-Life+%26+End-of-Sale+Notices%3A%3A%3A%3A&strSortBy=cdcdate&strqueryid=2&websessionid=awagNhHAKxZOiXAA1E5vlp3&strCurrentSimilarSearchBreadCrumb=&strCurrentSelectedModifierValues=&country=US&language=en&profile=enushomesppublished&c\\_navsequence=0%3A0&strSearchPageContext=allresults](http://tools.cisco.com/search/JSP/search-results.get?isNavigation=true&strQueryText=end-of-life&strSelectedModifierValue=cdcdocumenttype%3A%3A%5E%26quot%3BEnd-of-Life+%26amp%3B+End-of-Sale+Notices%26quot%3B%24%3A%3ADocument+Type%3A%3AEnd-of-Life+%26+End-of-Sale+Notices%3A%3A%3A%3A&strSortBy=cdcdate&strqueryid=2&websessionid=awagNhHAKxZOiXAA1E5vlp3&strCurrentSimilarSearchBreadCrumb=&strCurrentSelectedModifierValues=&country=US&language=en&profile=enushomesppublished&c_navsequence=0%3A0&strSearchPageContext=allresults).*