

Butler Community College

Request for Proposal for Network Switch Infrastructure (Network infrastructure - Wired)

RFPID: DT-NET-WIRED-2017

Submitted Questions and Answers

10 July – 2017

1. For core switches is there a need for minimum of 120 10 gig baseT ports with POE+ or is this for initial deployment for future capacity?
 - A. Researching

2. The MDF / IDF section ask for: “Power supply with a rating capable of providing full Class 4, 802.3at PoE power to 70% of the total available switch ports” 802.3AT standard requires 30 watts at source to each port. Is this what is meant and is design spec for 48 port switches, 24 port switches or entire fully loaded chassis at full capacity?
 - A. Our goal is for 70% of the total available switch ports at a given location to supply 30 watts at source to each port.

3. The bid spec asks for: Provide at least 2 SFP+ ports with the ability to run 10 Giga-bps speeds over either single mode fiber optic cable and an additional 6 or more ports that can deliver 10 Giga-bps via copper connections Are the copper 10 gig ports dac cables (ie sfp+ type ports) or does this mean RJ45 10 gigbaseT POE+? Also are the requirements for 6 additional 10 gig copper ports per switch or per stack or chassis?
 - A. The answer to this question is dependent on the devices bid by the vendor. In the event that the bid is single u switches, the request is for 2 SFP+ ports with the ability to run 10Gbps over single mode fiber. In the event that the vendor bids a chassis solution the request is for 2 SFP+ ports with the ability to run 10Gbps over single mode fiber AND an additional 6 RJ45 10Gbps POE+.

4. Do the included port counts include growth or should we add growth in? Can we meet the port counts using combination of 48 & 24 port switches, or is it desired for 48 port switches only?
 - A. Growth is included in the port count and port counts and devices specified were due to rack space limits. Additionally, it is our goal to standardize models across the institution.
5. How many fiber transceivers and/or copper dacs are desired per switch or per switch stack? If fiber 10 gig – 10 gig single mode LR type transceivers?
 - A. Please refer to answer on question 3 above. Yes on LR type transceivers.

15 July – 2017

1. Is there cabling preference Cat5E or Cat6 or Cat6A?
 - a. cable preference is Cat6A blue Plenum
2. Is there a cable management standard for closets?
 - a. One is being implemented this year. For the wireless project all patch cables for AP's in the MDF/IDF need to be the same color, TBD color
3. Will we need to replace any IDF closet racks or Posts?
 - a. Should not need to replaced, but some racks have very limited open space.
4. Do the racks have enough space to accommodate parallel network?
 - a. Some racks have very limited open space.
5. For certain aspects of the solution can virtual machine appliances be used in place of hardware appliances? If Virtual appliances are desired what type of virtual environment will Butler provide: i.e. Vmware ESXI, Hyper-V, Citrix etc. and are there any limitations on the amount of processor, memory or cpu that we should be aware of ?
 - a. We are open to proposals for each type of solution. Any virtual appliance exceeding 4 vcpu/cores and 16gb ram per appliance will need to be discussed.