

## RFP Questions

### Posted to Website on 10/13/2011

- Do you require an external enclosure with a locking mechanism for the externally facing AP's?

*The AP's that would be installed externally would need to be done so in a weather controlled and secure environment. The summer temperature in the Imperial Valley is regularly in the 110 to 115 degree range and can reach as high as the 125 degree range. The AP's need to be able to function in this environment, whether that is via an enclosure or some other method is up to each vendor. Also, because they are externally accessible there needs to be some way of securing the AP's.*

- Do you have any cabling install hour requirements, i.e. 10 PM to 6 AM? Weekend?

*For the purposes of this bid we do not have any special install hours or days at this time. If the project moves forward as scheduled the goal would be to work on the installation during Winter Break. If something changes and there is a need for off hour work, that will be negotiated at that time.*

- If a vendor is targeting package 1 do they need to have a current C7 license?

*If the IVC decides to go with Package 1 instead of Package 2 then the vendor, or sub-contractor, would need the license(s) that are necessary for the work that is being done.*

### Posted to Website on 10/11/2011

- Does the UPS need to be an APC?

*That would be our preference, but are willing to entertain other solutions.*

- Does equipment need to integrate with a Radius server?

*That would be preferable. We are currently working on a Radius solution that we would like to integrate with all packages.*

- **Are the IDF's/MDF's Layer 2 or Layer 3?**  
*At this time they are Layer 2.*
- **What type of POE injectors?**  
*We do not have a set standard. Can be individual injectors or an injector switch.*
- **Does the wireless need to handle VOIP?**  
*Yes, while IVC is not using wireless handsets at this time we would like to be in a position to grow into them.*
- **Will IVC do any necessary electrical work, including on the poles to provide power to the AP's that are 'meshed' into the network?**  
*Yes, IVC does plan to do our own electrical.*
- **Can you provide building dimensions?**  
*We do not have drawings for all buildings; however, we have found drawings of some of the buildings. They have been added to the building drawing link.*
- **All Access Points cables to IDF/MDF?**  
*Yes*
- **Access Points above or below ceiling?**  
*Preference would be above ceiling, but final decision will be based on the best coverage.*
- **Multiple Cables to each Access Point?**  
*If required for the Access Point, please list as an option.*
- **Cable/Patch panel Manufacturer?**  
*None Required.*
- **Plenum Cabling?**  
*Only in those area where it is required.*
- **What type of cable for the cabling portion of Package #1?**  
*CAT 6 UTP is the preferred Cabling type.*
- **A Question below asked "What Applications would you like to monitor." A follow up to that response is: How many cpu sockets of**

web-servers through which application traffic runs? Shall we include Banner?

*Yes, Webstar has 1 - 4 core processor and INB has 1 - 4 core processor.*

- A Question below asked "What Databases do you have and how many? Across those DB's How many servers are they spread across?" A follow up question has been posed: On the Three Oracle databases - How many cpu sockets per server?

*The Banner Oracle server currently has two cpu's with two processors per CPU, The Degree works server currently has 1 CPU with four processors, The ODS server currently has 4 CPU's*

- Does IVC want to terminate VPN or just Pass it?

*We would like to terminate all VPN connections at the edge security device. There are no requirements whether the tunnel is IPSEC or SSL.*

- Is this a core connection or a perimeter?

*The connection is at the edge between the public internet and the private network.*

- Would you need a redundant power supply line? (AC or DC)

*Redundancy is a positive, we are currently on AC power.*

- Is this 1G minimum connected to a 1G line or do you require it to connect to 10G network?

*At this time the network connection at both ends are 1 Gigabit connections.*

- Would you require the device to fail open.

*That would be our preference, but it doesn't rule out a device that fails closed.*

- Is this inline or span mode?

*Depends on the device. If it needs to be in line to get the full function of the device then that is what we would want. If it has full functionality in span mode then that will work.*

- What is the total number of interfaces, fiber or copper in Package #2?

*We would like a minimum of 5 interfaces, but if an appliance has less it doesn't disqualify it. Interfaces can be either fiber or copper*

- Do you require installation services for the Enterprise Monitoring and Diagnostic Services?

*No, but we would like some support available to help with any install problems and assistance with initial configuration.*

- **Shall the centralized solution be redundant or high available?**  
(Example: two redundant wireless LAN controllers or wireless switches)

*The final answer will depend on cost. For the RFP please use “high available.”*

- **Is mesh networking required for both indoor and outdoor access points?**

*See Below (a and b)*

- a) **Is mesh networking required in the 100% of indoor access points?**

*No, not required on any indoor AP's unless there is other way to get connectivity to the AP.*

- b) **Is mesh networking required in the 100% of outdoor access points?** *Only required in those open areas that it is not possible to get a copper cable to.*

- **Is wireless coverage required in 100% of the outdoor areas including: soccer fields, parking lots, tennis courts and drop off areas?**

*No, coverage is required basically from parking lot to parking lot, with the assumption that there will be some signal bleed into the parking lots and athletic fields. Tennis courts and the drop off areas are considered as part of the main campus and would need coverage.*

- **Could IVC provide a drawing of the IVC campus in an Autocad file?**

*We are working on providing a few more drawings, but will not be able to provide them in Autocad at this time.*

- **How many computers are on the network?**

*There are approximately 800 Staff and Faculty computers on the wired network. The number of student and staff devices that will be on the wireless network is unknown.*

- **How many users are on the network?**

*There are approximately 800 users on the wired network. The number of users on the wireless is unknown.*

- **What is the bandwidth of the primary Internet connection and the interface type?**

*The primary uplink to the internet is currently Gigabit copper. However, we have Gigabit fiber connections available.*

- **What is the number of user and site-to-site VPNS needed?**  
*We would like to have a minimum of 4 site-to-site VPN's and 20 user sessions, all concurrent.*
- **Does IVC need content (URL) filtering included?**  
*IVC does not have content filtering requirements as a K-12 institution does. But we are interested in finding the best solution and would be interested in learning how content filtering could be of benefit to help us meet our security needs.*
- **Should Antivirus included?**  
*We are not specifically looking for an antivirus solution; however, we are interested in finding the best solution for IVC. If you feel the security equipment provides additional value to IVC beyond what is called for we would be interested in learning about it as an optional item that is priced separately.*
- **Should web malware protection included?**  
*We are not specifically looking for a malware solution; however, we are interested in finding the best solution for IVC. If you feel the security equipment provides additional value to IVC beyond what is called for we would be interested in learning about it as an optional item that is priced separately.*
- **Do we need to include a reporting server for in-depth reporting? Or does IVC only want the features that are on the firewall? (Firewalls can generally only hold a limited amount of logs)**  
*We would be interested in a reporting server, but from an optional standpoint.*
- **Under “minimum of 1 Gbps throughput”, is this the total stateful throughput of the firewall, or the total throughput with any and all security features enabled?**  
*It is the total Stateful throughput. We would however, like to know what the total throughput of the firewall is with any and all security features enables.*
- **Will a pre and/or post survey be required as part of this RFP?**  
*Whatever is necessary to provide a good estimate of the number of AP's necessary to provide coverage of the IVC Campus. At the end of the project we would like to know where the weak points are.*
- **Can you please provide your definition of “Mesh Networking?”**

*There are some areas on Campus where it is not possible to have copper cabling available, but we still would like to have wireless in these areas. The access points in these areas need to “mesh” with other access points and provide coverage in those areas.*

- **Will the vendor be responsible for setting up the wireless VLAN and any required QoS on the switches?**  
*We would like to look at this as a joint venture. We would like assistance with the initial set up and configuration, but we would like to be very involved in the process so that we can take over and complete the install and know how to make changes to the equipment and add any future AP's.*
- **Will you require the vendor to supply patch cords for the device and closet end?**  
*Yes.*
- **Edge Security to separate Local Area Network from Public Internet.**  
*To have firewall functional functionality*
- **Who is your preferred server platform manufacturer?**  
*We are currently using HP servers. We hope to have a new SAN and Chassis Servers in place this month.*
- **Are additional drawings available for the campus that provide more detail in regards to cabling?**  
*Some additional drawings have been found and are now available for downloading from the RFP page..*
- **For Package 1-1, are there existing patch panels that we can use, or if we should plan to add new patch panels in every closet?**  
*Anticipate needing new patch panels.*
- **How many areas will be considered high density?**  
*We anticipate that the two large lecture halls, the Library, and The Student Center will be the high density areas.*
- **How many users will there typically be in a classroom and various gathering places?**  
*The typical classroom will have around 30 students.*

**Posted to Website on 10/6/2011**

- **Is the virtual environment based on VMware or Hyper-V? How many Hypervisors are there and how many virtual servers?**

*The virtual environment is going to be Hyper-V. We anticipate two Hypervisors, one for our virtual server environment and one for our virtual desktop environment. Because we are moving into our virtual environment, this is an estimate. We estimate 30 total virtual servers when we are completed.*

- **How many servers/clients are to be protected with Bare Metal recovery?**

*Our goal would be to protect as many as possible depending on cost and other resource factors. But at a minimum we would like to protect our primary servers such as Web server, Exchange, SQL, etc.. We anticipate this number to be 5-7.*

- **How many Exchange mailboxes are there? This is for QRME**  
*Currently there are 822 exchange mailboxes.*

- **How much data is going to disk for NetVault: SmartDisk?**

*At this time we currently have approximately 5.5 TB available for backups. As to the amount of data currently being backed we don't know the exact amount. We estimate around 3 to 4 TB.*

- **Does Exchange 2010 db have any DAGs in it and how many?**

*We currently only have 1 Exchange Server*

- **What is the OS that the MySQL db is residing on**

*We will be running SQL on Windows Server 2008.*

- **If they need hardware for the server platforms as part of the RFP. Are they supplying the hardware or is it needed?**

*If the program is capable of running within a virtual environment then we will be providing the server platforms. If Not then the server platform will need to be provided.*

- What Databases do you have and how many? Across those DB's how many servers are they spread across?**  
*We are currently re-designing the data center so the list will represent both what we have and where we are going. All of the DB's are on single servers*

  - Two SQL databases*
    - One for SARs that currently exists*
    - Domain wide SQL database for multiple uses, i.e. exchange and other softwares*
  - Three Oracle databases*
    - One is currently on Solaris*
    - Two are currently on Red Hat*
- What Applications would you like to monitor?**  
*We would like to monitor various servers both virtual and physical. Things like webpages, Exchange, SQL, Hyper-V, Terminal Server, and generic server things like disk space and cpu usage, memory usage.*
- How many network devices do you have?**  
*Approximately 50 network devices*
- How many HyperV hosts do you have? How many physical sockets does each host have?**  
*There will be three physical hosts. Each will have 2 processors with 4 core each.*
- How many users in the network?**  
*There are approximately 800 Faculty/Staff using the network. Additionally there are approximately 2,000 students at peak times on campus.*
- What is the max amount of traffic you expect at the peak time of the day?**  
*At this time we are running between 50 and 60 Mbps. The unknown is how much additional traffic will be added once we have an campus wide wireless solution in place.*
- How much of an increase in users are you expecting over the next few years (future proof user count necessity)?**

*We expect minimal growth in student count over the next two or three years.*

- **Wireless Question:** With the map provided, we are able to spec out the outside AP's. However, is there any more information that can be given to calculate the AP's inside the buildings?

*While the Site Walk on the 7<sup>th</sup> of October is optional, we are encouraging those vendors that are bidding on the wireless package will attend to gain a more complete understanding of the buildings. However, I will give as accurate a description as possible.*

*The exterior walls of the buildings are concrete block, the interior walls are primarily wood frame and sheetrock, but any load bearing walls, normally in the middle of the building, are concrete block. The ceilings are primarily drop, but there are areas of hard ceilings. I have not looked, but my understanding is that there is room above the drop ceilings to work.*

*Each building will vary in the number of classrooms and office space, but a general break down of the buildings are:*

*10 Building is the Offices and Board Room, no classrooms.*

*100 Building is the Counseling Center, no classrooms*

*200 Building is 6 Classrooms and 4 Offices*

*300 Building is 6 Classrooms, large music room, 3 small music rooms and 6 Offices*

*400 Building is being renovated and will be 6 Classrooms, Resource Center Offices/Labs and 3 Offices*

*500 Building are metal buildings that consist of 10 Classrooms and one office area*

*600 Building is the Student Center, no classrooms*

*700 Building is the Gym*

*900 Building is 6 Classrooms,5 Offices and 1 Lab*

*1000 Building is Office Area*

*1100, 1200, 1300 are Metal buildings that have 6 classrooms and are currently used as career tech*

*1500 is the Library and media center*

*1600 and 1700 are Portable Buildings that are currently used as office areas*

*1800 is a metal building that is maintenance and operations*

*2100 is our Nursing facility. It has some small classrooms, but will need to be treated much like a hospital*

*2200 and 2300 are the day care facilities*

*2600 is portable Buildings that are being used as a Computer Lab(s)*

*2700 is a new building that has 30 or so classrooms of different sizes, science classrooms, a large lecture hall and other open space.*

*2800 is a small art gallery*

*T100-600 are temporary trailers that will remain while we are under construction*