Technology Committee Agenda 3-10-14

Time: 6:30PM

Location: Board Room

Questions after last meeting:

1. Google Analytics access has been restored, access given to Mr. Finucan per Dr. Stropkaj
2. So can you give me a rundown of how many VLANs we have, and the rationale behind our VLAN topology? Is there a student VLAN, and a teacher one? How is it split up? And why?
    a. Current vlans: 16 - Legacy, Imaging, Servers, Security Devices, Power Control, HVAC, High School, Middle School, Dormont, Aiken, Myrtle, wireless and guest wireless
    b. To shrink the broadcast domains down to help performance (example, one vlan does not see the other's dhcp packets), for security – guest wireless, public spaces (ie library may be segmented or steam lab), staff / student, security / camera
3. Do we used managed or unmanaged switches? Assuming we use managed switches, what would we lose by going to unmanaged ones?
    a. We use mostly managed switches except for unmanaged small switches in some classrooms where ports are limited.
    b. We would lose the ability to create VLANs. Having managed switches allow us to prevent network outages by someone plugging in a looped switch device by mistake or on purpose. Using managed switches gives us traffic statistics so devices generating high amounts of traffic i.e virus, malicious software, or bad cables can be traced. Managed switches give us the ability to monitor fans, heat, and health. It is very difficult to troubleshoot issues outlined above when using an unmanaged switch. You basically have to walk around the campus pulling cables out one by one to trace issues. You have no statistics to tell you where a bandwidth bleed might be except for how rapid several hundred LED's are blinking. To summarize you'd lose the ability to segment traffic, to troubleshoot, to guard against bridge loops, to monitor health, and to do port authentication for segmenting guests.
4. Clarification of Technology Directors Role: Mr. Smith will plan projects and submit final project plan to board for review and vote. If a deep dive is needed Mr. Smith will invite project team members to the table for a Q&A.

Agenda Items

- Dairy Association Event at Aiken (3/4)
- Google Doodle Event in STEAM room (3/5)
- Three interns from Duquesne
- Review of past months help desk tickets (see report)
- Used rest of STEAM grant to purchase 3D MakerBot printer for STEAM room
    - Met with tech ed department to review 3D printers
    - Received and reviewed training materials with tech ed department
    - Reviewed current curriculum with tech ed department and how 3D printer fits
    - Goal is to ensure seamless transition of this equipment into the curriculum.