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To: John Jay College Community  
From: Praveen Panchal, Chief Information Officer  
Date: October 25, 2011  
Re: New Building Technology

In anticipation of the new building opening for business, DoIT would like to provide an overview of the IT infrastructure, classroom technology and computer lab facilities that you can look forward to.

### **Datacenter**

The datacenter in North Hall has been replaced by a state-of-the-art datacenter in the new building that is serving as the central point for the College's core network, telecommunications and server infrastructures. A green design was implemented to save on power costs. It is expected to lower power usage considerably while extending useful life of servers. This location is also saving on cooling costs by using newer targeted air conditioning system. To provide redundancy it has been equipped with secondary cooling capacity, battery backup system, and has been connected to generator power to further mitigate the risk of service outages.

### **Network**

The network backbone uses two 10 gigabits uplinks to support current and future technologies. These links connect to a state-of-the-art core network that offers full active-active redundancy for all connections. The network in the new building is much faster than elsewhere on campus. As a result of the upgraded network all faculty, staff and student computers in the new building are being provided 1 gigabit of wired connectivity. This represents 10 times faster non-internet connection speed than in other John Jay buildings. Over 8,000 network ports have been provisioned to ensure that network connectivity is available where and when it is needed. As a result we expect that moving forward most requests for additional network connectivity will take much less time to provide.

### **Telecommunications**

The new network infrastructure was also designed to support Voice over IP (VoIP) telecommunications technology including all of the features that come with a state-of-the-art telecom system. As a result all occupants of the new

building will have voicemail in their email inbox (Unified Messaging) and will be provided with a caller ID display phone.

Currently, Haaren Hall telecom needs are served by our existing Siemens platform which is integrated with the new building's Cisco telecom platform. We have recently been approved for capital funding of \$300,000 to procure an identical Cisco platform for Haaren Hall. We anticipate the migration from Siemens to Cisco to take place sometime in summer 2012.

In addition, the new building telecom devices have been provisioned to provide enhanced Unified Communication (UC) technologies in the future. UC will someday allow members of the campus community the ability to Chat, Video Conference, perform On-Demand Video Chatting and provide Presence (this indicates your availability - whether you are on the phone, busy, away or in a meeting) information from their computer and mobile devices.

## **Wireless**

Finally, the new building infrastructure extends the College's existing wireless networks and security measures to all new building locations including the Jay Walk and café on 11<sup>th</sup> avenue. This includes provisions to support VoIP wireless devices in the future. In total this location makes use of over 140 wireless access devices making it the most wireless building on campus. With all these devices the new building is more than ready to meet the wireless needs of the campus community.

## **Classroom Technology**

All classrooms in the new building have been outfitted with equipment comparable to what currently exists in Haaren Hall to help simplify and rationalize usage. In each room an instructor will find a podium that houses multimedia equipment and a computer for classroom instruction. Ceiling mounted projectors, wall mounted speakers, and projection screens are also part of the package installed. Remote controls have been replaced with touch panels that control the projector, audio, and video playback. Laptop connection plates that provide electrical power, network, video, audio and USB drive connectivity are being provided to support faculty laptops and other devices. Faculty who would like to preview these classroom technologies are welcome to visit ITSS (in our new location NB-floor L2) during their normal operating hours starting October 31<sup>st</sup>. All the classrooms will be ready by November 7<sup>th</sup> – the first day of classes.

## **Lab Facilities**

The student computer lab facilities in ITSS have been expanded. There are now six distinct labs: a 64 seat open student computing center, three 32-seat computer labs, one 24-seat computer lab, and one 22-seat computer lab. One of the 32-seat labs is an Apple Mac computer lab. This configuration provides ITSS with greater capacity for classroom instruction as well as more scheduling capacity. Overall, there will be an increase of more than 300 computing stations for the academic labs in the new building.

## **Lab Availability**

It is important that members of the community understand how lab spaces will be transitioned to the new building and plan accordingly. DoIT has made arrangements to ensure that computing resources remain available as much as possible during the move. However, the new 64 seat open student computing facility will not be available to students on November 7<sup>th</sup> as there is additional construction to be completed. The expected completion date for this location is sometime late spring. As a result, the existing Student Computer Lab Center in 1404 North Hall will remain open for the duration of the fall semester. The North Hall cyber lounges on the first floor, one cyber café on the second floor (2200A) and fourth floor will also remain open. The Laptop Loan program will close on October 28<sup>th</sup> for relocation and will reopen in its new location in the new building on October 31<sup>st</sup>. In order to ensure a

smooth transition all loan items must also be returned by October 27th.

The new facility will offer our students, faculty, and staff a new level of convenience and enhanced technology services. We are excited about opening day and looking forward to providing the services that you need and depend upon. Should you need any further information please feel free to contact us.

