



- Complete Design and Installation of Audio Visual Systems
- Power and In-Row Cooling Solution
- Structured Cabling
- APC Data Center
- 8 IDFs
- CCTV
- Copper/Fiber Risers
- 1,500 CAT6E Station Cables
- Access Control System
- Cisco Unified Communication
- Cisco Switching
- Cisco Wireless

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Audio Visual

(7) Smart Classrooms

- Dual HD Projection Systems
- Video Conferencing with Voice activated Camera Switching
- Classroom Capture
- HD Document Camera, DVD/VCR, Wired and Wireless Laptop Connection
- Wireless Voice Lift
- Integrated Touch Panel Control System with Automation

Mock Court Room

- HD Projection System
- (4) HD LCD Panels
- Video Conferencing with Voice activated Camera Switching
- Room Capture
- HD Document Camera, DVD/VCR, Wired and Wireless Laptop Connection
- Wired/Wireless Voice Lift
- Integrated Wireless Touch Panel Control System with Automation

(2) Recording Studios

- HD LCD Display
- Video Conferencing Capabilities
- Room Capture
- HD Document Camera, DVD/VCR, Laptop Connection
- Wireless Microphone System
- Integrated Touch Panel Control System with Automation

(9) Conference Rooms

- HD Projection System
 - HD Document Camera, DVD/VCR, Laptop Connection
 - Integrated Touch Panel Control System with Automation
- ### (11) Interactive Digital Signs
- HD Touch Screen LCDs
 - Displays Events, Interactive Maps, and building Energy Conservation Statistics

(2) Lounges

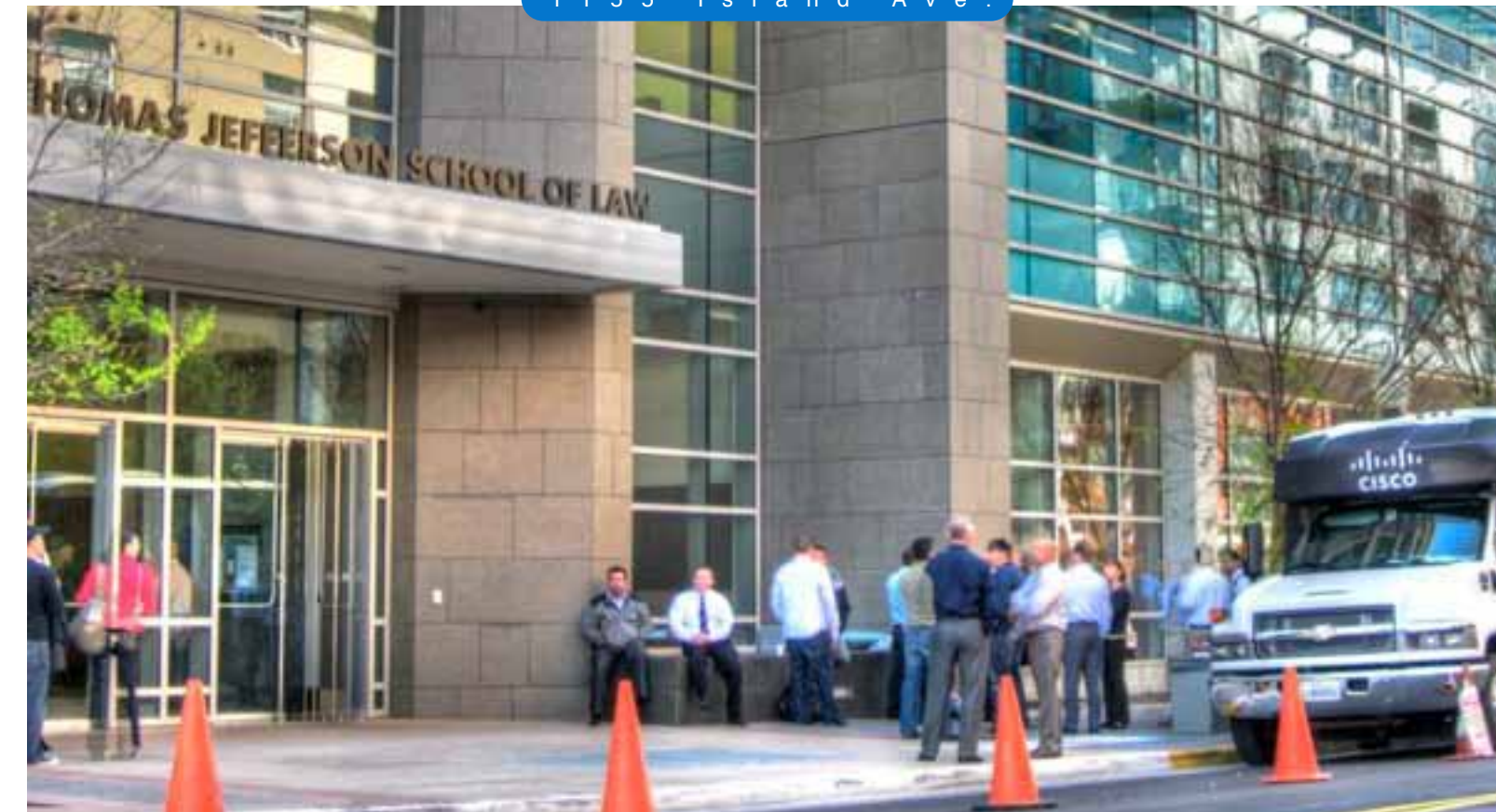
- HD LCD Displays
- Background Music System with iPod Integration
- Integrated Touch Panel Control System with Automation

Building Wide Asset Management System

- Centralized Monitoring and Management of all AV Devices with Remote Helpdesk
- Email Alerts of Equipment Malfunction or Theft
- Diagnostics
- Use Statistics and Reporting

User Systems

- 200 virtualized desktop PCs for staff and faculty using VMware and Samsung PCoIP thin client desktops.
- NetApp storage systems with redundant controllers and over 30TB of storage.
- All virtualized thin client applications and operating systems running through the SAN storage and delivered over the IP network.



LAN Systems

- Cisco 6500 series chassis Core switch with 720Gbps backplane speed and redundant supervisor engines.
- 4500s and 3750Es for the Access layer. Each IDF configured with redundant and active 10Gbps links to the Data Center for a combined 20Gbps of throughput.
- Each floor segmented through layer 3 routing to support intensive multicast video and audio.
- Segmented and secured LAN/WiFi networks for faculty, staff, students and guests.



Wireless Systems

- Controller based wireless network using Cisco 5508 Series WLCs
- 48 Cisco 1142A/G/N radio access points deployed
- Secured wireless supports over one thousand students strictly using wireless for resource access.
- Student portal web login integrated into wireless network authentication for dynamic network assignment and single sign



Unified Communications

- Redundant and virtualized Cisco Unified Communications Manager and Unity Connection 8.0 Systems
- Cisco Unified Mobility allows staff to mitigate cell phone dead spots by using desktop extensions and inter office dialing on smart phones
- Over 200 high definition color gigabit phones 7975, 7965, 7945 and 7937 IP phones deployed.
- Cisco Unified Presence employed for staff communication and availability information.
- InformaCast IP paging system allows staff to use desk phones for ad-hoc paging by phone group or pre-recorded emergency alerts to all phones.



Structured Cabling

- Commscope Category 6 Enhanced Cable
- Over 900 outlets installed through 7 distributed telecommunication rooms and the data center.
- Multiple pair copper backbone cables and fiber feed each of the IDF's for redundant distribution. This provides state of the art communication capability and a complete redundant cable plant system.

Data Center

- APC Symmetra PX 30kW Scalable to 40kW with N+1 resiliency
- Hot/Cold aisle containment model to maximize cooling and lower TCO

Fiber Distribution

- Each of the (7) IDF's are connected with a 12 strand 50um, 10G, laser optimized OM3 fiber providing connectivity from the Data Center to each IDF.
- OM3 deployment supports today's demands for 10G serial transmission speeds, as well as providing long term adaptability to 40G and 100G applications.

Physical Security

- Installed over 100 IP connected door readers
- Smartcard Technology
- 60 IP Surveillance Cameras
- Integrated printing and parking access to access badge system for single credential
- Redundant Storage System for recorded video
- Centralized Monitoring Station
- Intercom System



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