Dependencies on NETS

Presented by
UCAR Technical Security
Topics to be Covered

• Multicast Radio System.
• Homeland Security Radio System.
• UCAR Duress Buttons.
• Documentation.
• NETS Closets.
• New IP based Camera Systems.
• Future IP Based Access Control System.
• Fiber-optic Communication
Multicast Radio System
What is the Purpose of this System?

• Primary Communication between,

• Jean Hancock, Shuttle Service, Receptionist, Maintenance Snow Crews, and Security.
Dependencies on NETS

- UCAR is currently operating six of these Radio Control Consoles through the network
- Possible expansion of two more, which would require an additional two network drops
- Expansion is not likely
Homeland Security Radio System

• Technical Security is currently waiting on Homeland Security to move their radio equipment into room 591 at the Mesa.
• NETS has completed all requests involved in the move of this equipment, which includes,
  • One T1 line for Radio Equipment
  • One Cisco Telephone for Technician use
UCAR Duress Buttons

• Security has recently re-evaluated its Duress Button response and made some changes
• Currently UCAR is using network wall plates and closets for cross connects to keep our Duress Buttons operational
• Due to a recent evaluation, Duress Buttons are not likely to be expanded anytime soon.
What are Duress Buttons

- strategically placed “buttons”, that when pressed, activate a SILENT alarm
- which in turn alerts Security, Front Desk personnel and the NCAR operator of an emergency in the area via the NETS telephone system.
Documentation

• Goal to Create SQL Database
  – Tracking of current & future systems supported by Technical Security.
    – Install Base (product type, location maps, dates)
    – Wire routing (i.e. cable runs, cross connects)
    – Technical Issues
    – Preventive Maintenance
    – Links to product information

• Seek input from NETS group
NETS Closets

Insure Accurate Labeling, Neatness & Color Coding of all Cables and Cross Connects.

- NETS input on configuration considerations, and any information required to keep existing NETS documentation current.
New IP Based Camera System

• IP video surveillance is fast becoming the norm when it comes to advanced video surveillance.
• Technical Security has purchased a new NVR (Network Video Recorder) and we have been testing four new IP based Cameras.
What have we learned?

- Real time monitoring
- Full Motion detection
- Powerful search capabilities
- Remote viewing
- Much, much better picture quality
Digital Recorder Image
NVR Image
Dependencies on NETS?

- We will be adding four more new cameras in the next couple of Months.
- Technical Security will be purchasing a Second NVR before the end of the year.
- This may result in a request of possibly 12 new network drops in the upcoming year.
Where might these cameras be located.

- High Profile areas
- UCAR / NCAR Shipping and Receiving Dock areas.
- Reception Desk.
- Building Main Entrances.
- RAF
Future IP Access Control System?

- UCAR`S Access Control System is lagging behind current Access Control Technology.
- Technical Security is in the beginning stages of researching new Access Control systems.
- This starts with meeting the needs of all divisions that will need to be involved.
Cooperation from

- Event Services
- Budget and Finance
- Human Resources
- Information Technology
- NETS
Advantages of IP System

- Alarm Management.
- Integration of Video/and Management.
- Temperature Monitoring.
- Voice over IP.
- Ability to Manage System from anywhere.
Future IP Based Access Control System
Conversion to IP Access

- Technical Security has been Designing our current System to be Converted to IP for the Past 3 years.
- Building's Ready to Convert,
- Center Green 1,2,3,and 4,
- Foothills 0,3,4,
- RAF
- Marshall
Basic Access System Overview

Few Network Drops Needed

• No Server - (Linex & MySQL embedded)
• Accessed via any OS, any web browser, from anywhere
• Small footprint on network infrastructures

• As we get closer to assessing different vendors, we would value the networking groups input as to any un-foreseen issues.
Fiber-optic communication

- Technical Security may be requesting our Typical Two or Three Fiber patches per Year.
- One to be requested this week!
Road Cameras???
Dependencies on NETS?

• Technical Security is 100% Dependent on our Networking Group in order to complete this Project.
• Possibly we could schedule a meeting to discuss where this project is, and the dependencies on Technical Security.
The End.