CISCO SYSTEMS

# Mobility – Virtual or Real

## Canus Augustus
## Wireless LAN Product Manager
## Cisco Systems

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# Agenda

- **High level business issues**

- **Education specific applications that solve business issues**

- **The connected Learning environment**

- **Cisco Unified Wireless Network**

  - **Mobility Services**

- **Summary**

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# The Education Industry Environment

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# Business Drivers in the Education Industry

- Meeting **students' expectations**

- **Improve** classroom communication

- **Improve** teaching practices

- **Extend the reach and flexibility** of the educational institute

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# Mobility Applications in Education

**Classroom Safety**

- **Cost effectively equips classrooms with telephony and video surveillance for security and safety**

**Campus-Wide Internet Access**

- **Provides students and professors with outdoor, ubiquitous Internet access using outdoor wireless**

**eLearning**

- **Allows individualized integration of online content into the course curriculum while leveraging collaboration tools such as video, voice and chat**

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**Slide 5**

**CSI1**      need to update
Cisco Systems, Inc., 31/03/2006

# Higher Education and the connected learning environment

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# Imagine a University…



**… that provides students, faculty, and staff anytime,, anywhere access**

**…that encourages flexible learning where students create their own studies programs**

**…that offers interactive, media-rich, curriculum**

**…where leading thinkers, and professors are globally accessible through distance learning**

**…that truly connects with the community**

**…with energy efficient, service oriented intelligent buildings**

**…that offers true lifelong learning resources**

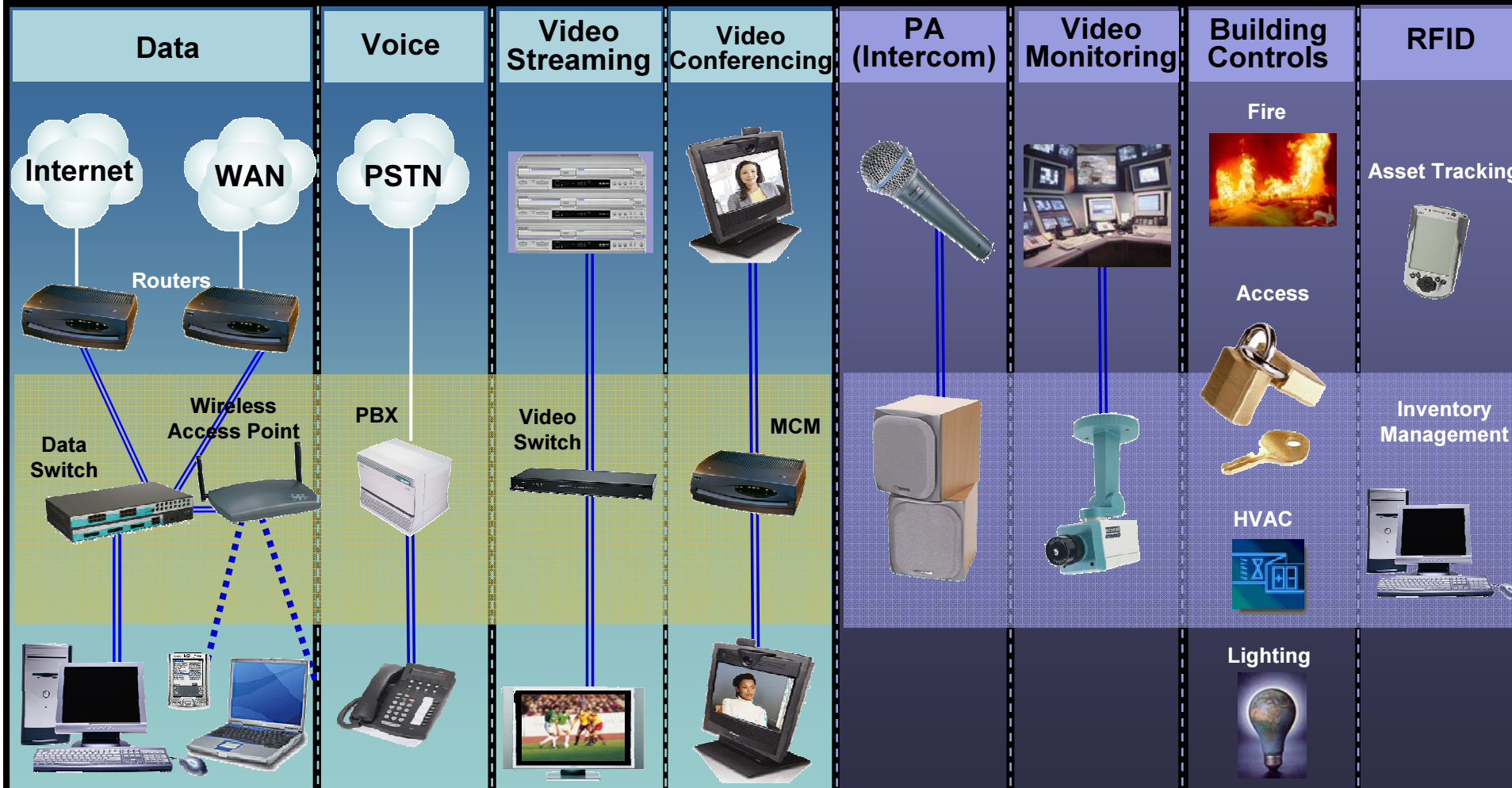INTERNET

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# Cisco Connected Learning

**BUILD A GLOBAL CAMPUS THAT ENSURES PHYSICAL AND VIRTUAL SECURE ACCESS TO EDUCATIONAL RESOURCES AND PERSONNEL**
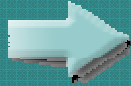
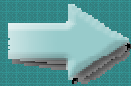# Multiple Networks…



**Faculty Workspace & Administration**

| Data | Voice | Video Streaming | Video Conferencing |
|------|-------|-----------------|--------------------|

**Facilities**

| PA (Intercom) | Video Monitoring | Building Controls | RFID |
|---------------|------------------|-------------------|------|

Internet    WAN    PSTN

Routers

Wireless Access Point

Data Switch

PBX

Video Switch

MCM

Fire

Access

HVAC

Lighting

Asset Tracking

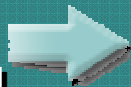Inventory Management

10

# … Converged into One

**Data**

**Voice**
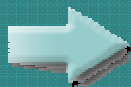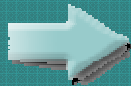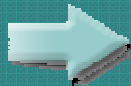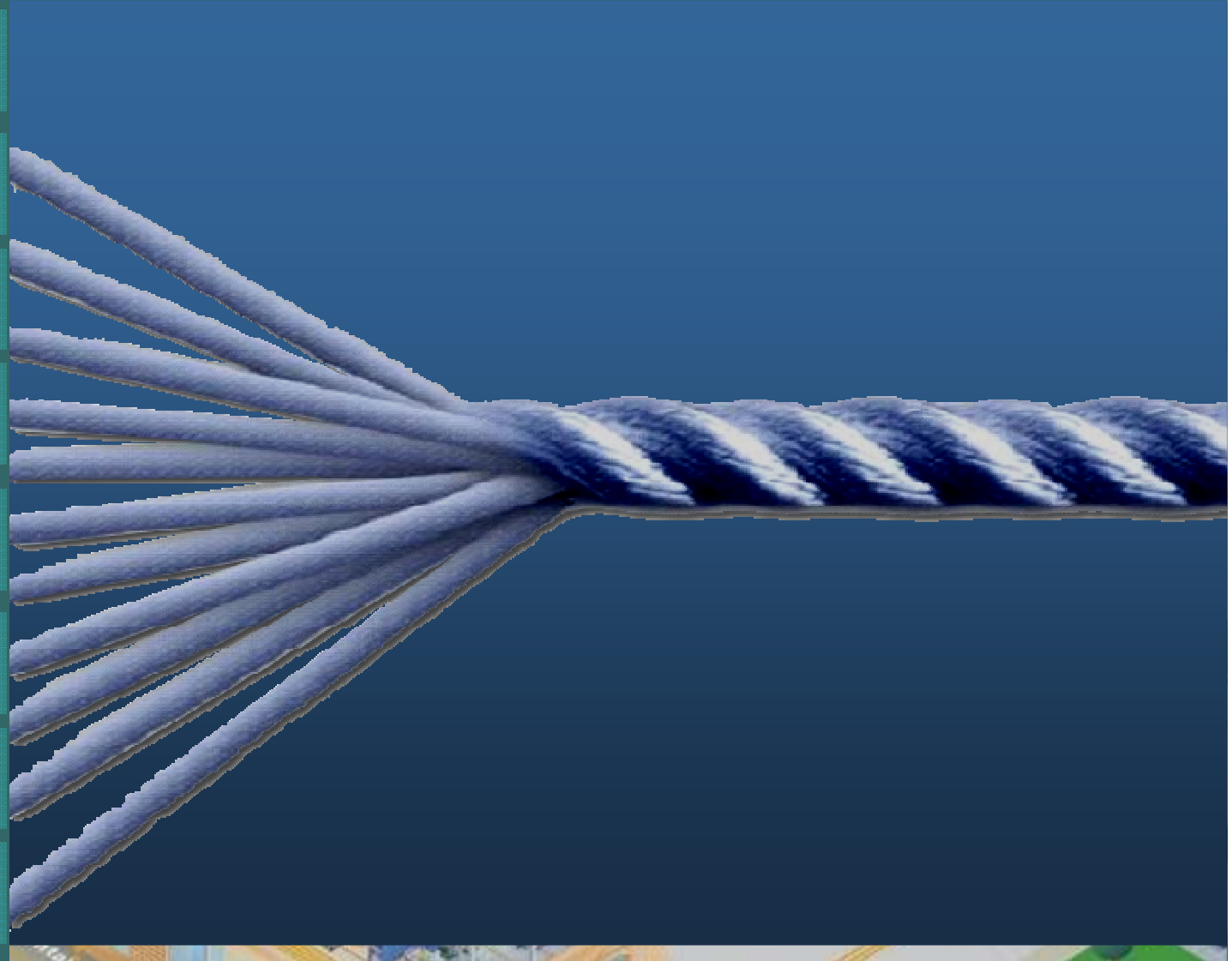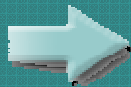
**Video Streaming**
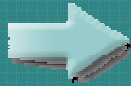
**Video Conferencing**

**PA (Intercom)**

**Video Monitoring**

**Wireless**

**RFID & Location**

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# MOVE TO STUDENT-CENTRIC TEACHING AND LEARNING

# Learning Tools for Faculty and Students

- **Distance learning programs**

- **Blended learning offerings**

- **Simulations and virtual environments**

- **A new generation of hand-held devices**

- **Collaboration applications**

- **A curriculum Web site**

EXPANDED INNOVATION TO CREATE A TRUE 21st CENTURY UNIVERSITY, A LIFELONG "CAMPUS WITHOUT WALLS"

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# Catching the Next Wireless Wave

**3rd Wave**

Pervasive wireless delivers true mobility for business process improvement and business application

**2nd Wave**

Opportunistic wireless deployments augment employee productivity

**1st Wave**

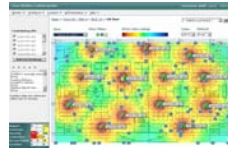Siloed vertical applications deliver departmental benefit

# Mobility Applications

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# Mobility Services Enable Applications for Education

## LOCATION

- RF fingerprinting accurately locates any Wi-Fi device and represent its location graphically

## VOICE

- Voice services are extended wirelessly in-building and out via integration with the IP telephony system

## SECURITY

- Integrated RF monitoring provides robust Intrusion Prevention. Unified wired and wireless secures sensitive data from external and internal threats
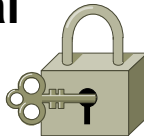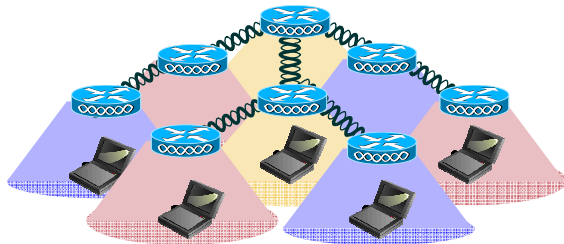
## GUEST

- Guests and suppliers receive tailored wireless access based on their individual user profile

# Mobility Services Enable Applications for Education

## MESH

- Enabling secure access in large outdoor environments



## e-LEARNING

- Information is accessible anywhere on campus and available at the time it is needed
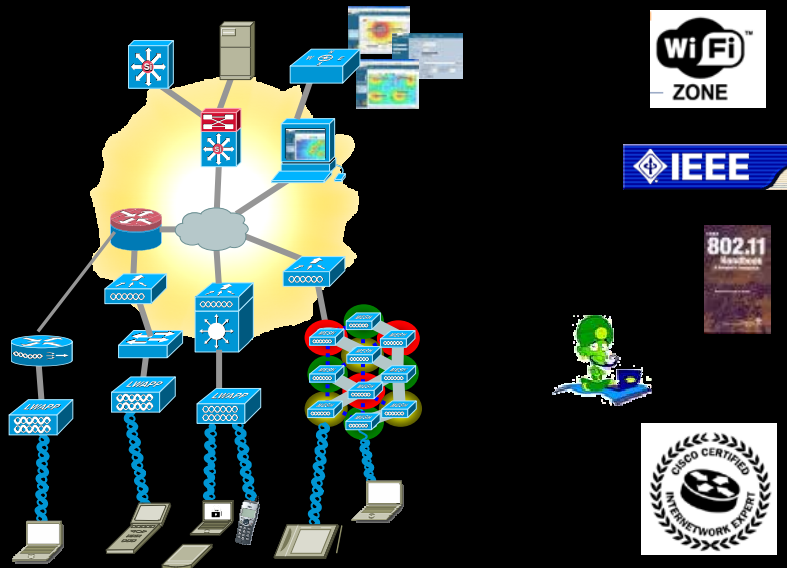
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# Summary

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# Cisco - The only Vendor to provide……….

- **End-to-End solution**

- **Proven Customer track record**

- **Shaping the industry**

- **Most publicly recognised platform**



## Product awards / Bakeoffs

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# Mobility – "REAL"
# The Payoff

- **Access information and resources anytime, anywhere**

- **Offer a truly individualized education**

- **Connect with leading thinkers, professors, businesses and other classrooms from around the world**

- **Expand the reach of the campus to the community and beyond**

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# Questions

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