

IP Core Network

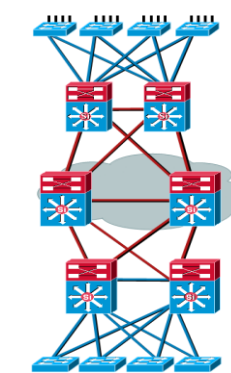
High-Availability/Resiliency

Convergence fabric for building and IT systems

Scalable and flexible

Enabling platform for all applications and services

Facilitates centralized and remote management for facilities and network operations.



Wireless Networking

- Indoor/Outdoor
- Guest Access
- 802.11n Support
- Secure Mobility



Digital Media System



Signage for Events and Announcements

Emergency Notification

Building Systems Notifications

Response to Pre-defined Building Conditions

Portal for Video on Demand



IP & Radio Network Interoperability



IP-based communications interoperability (Radio, PC, Cell, Intercom, etc.)

Push-to-talk everywhere.

Interoperability of disparate radio networks, with integration to IP-based communications.

Event based responses using the IPICS Policy Engine.



Line Powered Switches
High Availability Multilayer Security
Modular Integrated Services Scalable

CRE Fabric Networking Foundation

Intelligent Device Interoperability
Application Aware QoS 802.1x IPv6
Virtualized Services Netflow NBAR

Cisco CRE Solution Benefits

Differentiation
Stakeholder Attraction and Retention

Managed Services
Revenue Opportunities and Remote Delivery

Streamlined Processes
Operational Efficiencies, Safety Common Operating Picture

Adaptable Environments
Flexibility and Space Optimization

User Mobility
Productivity, In the Right Place at the Right Time

Cost Reduction
Space, Technology, Energy, and Operations

Green Benefits
Compliance with Energy Objectives

Convergence
Shared infrastructure & information New opportunities Integration Services

Ecosystem/Integration Partners

- Honeywell
- Johnson Controls
- Cisco/Richards-Zeta
- Augusta Systems
- Proximex
- Network Harbor
- Vidsys
- Athoc
- Berbee

Energy Management

Embedded Event Management

- Power on/off IP Phones
- Adjust Climate Controls
- Turn on/off lights based on occupancy and other criteria.

"Green" Applications – Emissions Tracking, Energy Conservation

Cisco EnergyWise

Cisco Mediator



Building Controls - Power on/off or adjust devices from anywhere via IP.

Converged Building Systems

Cisco Mediator is the demark point to converge building systems to the IT infrastructure.

Intelligent Data Normalization

Custom Dashboard/Web Services

Third Party Integration

Multi-Vendor Real-time Data Flow

Intelligent Middleware.

Smart Building Access



Secure Personal Identity

Motion Detection Stimulus/Response

Personal Student ID card Lunch, Library, Book Check-In

Building Access Records

Restricted Facilities Access

Video Surveillance

IP Video Surveillance Cameras



Web based for anytime, anyplace access to Video.

Scalable (cameras, storage, users, locations, etc.)



Standards-based architecture and open API for development

Extensive support for 3rd party devices

Deployment flexibility (wired, wireless, centralized or distributed)

Reduced incidents of Violence, Vandalism, Theft Increased Safety and Security

Unified Communications

Unified Voice, FAX, Email, Video Centralized Call Processing

Integrated XML Data Applications

Simplified Web Based and Voice Conferencing

Advanced Communications Platform Emergency, TelePresence, Collaboration

Reduced Costs, Support, and Maintenance



Management of building systems via IP Phone interface.

Access from multiple areas within the facility.

Presence-Based Awareness

Telepresence

Enhanced visual communications and collaboration.

Greatly reduces travel costs and lost time due to commuting.

Integrated Global Communications beyond the district.

Access to Regional Experts for Instruction, Diagnosis, Staff Development, and Counseling

