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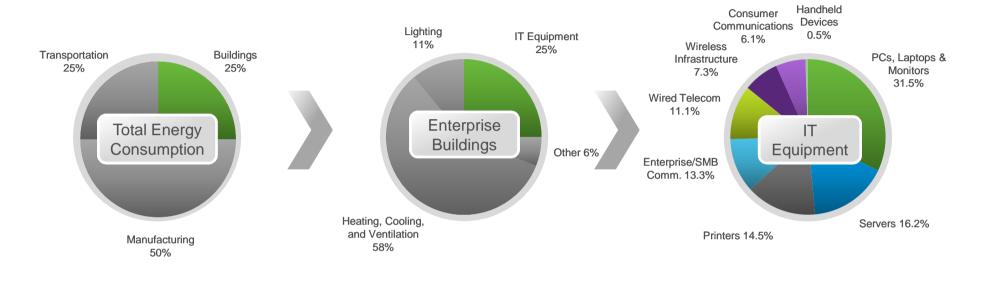


7th November 2012

Agenda

- 1. Role of IT in a Building
- 2. IT Infrastructure Convergence
- 3. Cisco EnergyWise Aproach
- 4. Summary

Building Energy Costs Enterprise IT Relevancy



Cost Savings	Sustainability Mandates
Rising energy costsIT device proliferationVideo applications	Regulatory complianceGovernment mandatesCompany requirements

Source: BOMA 2006, EIA 2006, AIA 2006

Source: UK Energy Efficiency Best Practice Program; Energy Consumption Guide 19: Energy Use in Offices Source: Gartner Dataquest, Forecast of IT Hardware Energy Consumption, Worldwide, 2005-2012.

IT Role in a Building

- 1. IT as a business tool
 - Traditional IT infrastructure
 - Information systems supporting the business
 - Collaboration regardless the geographical location
 - Access to the Internet
 - IT is an important energy consumer



2. IT infrastructure as a unifying platform for building technologies

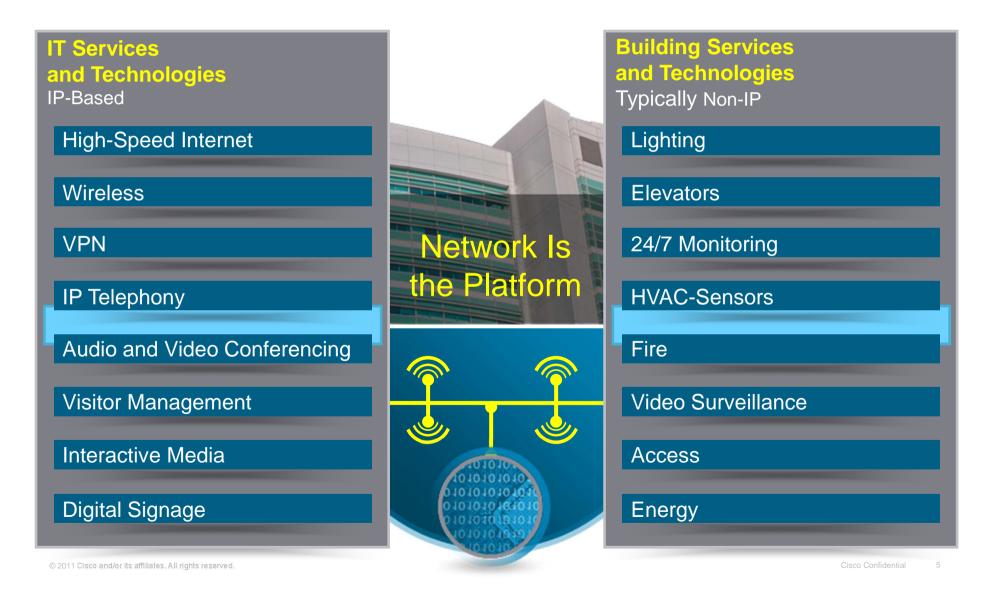
Facility network (often called "Technological network") Interconnecting:

Building controllers - HVAC, Lighting, Elevators, Fire sensors Physical security (Videosurveillance, Acess control) BMS....



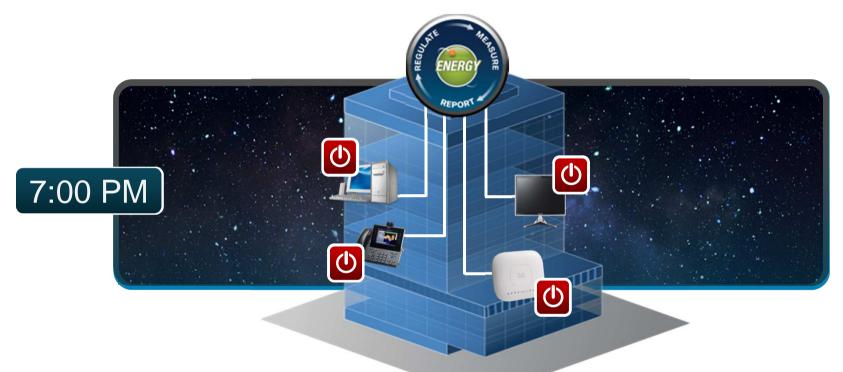
Building Management Trends

Convergence of IT and Facility Networks



Cisco EnergyWise

The Central Nervous System for Energy Intelligence



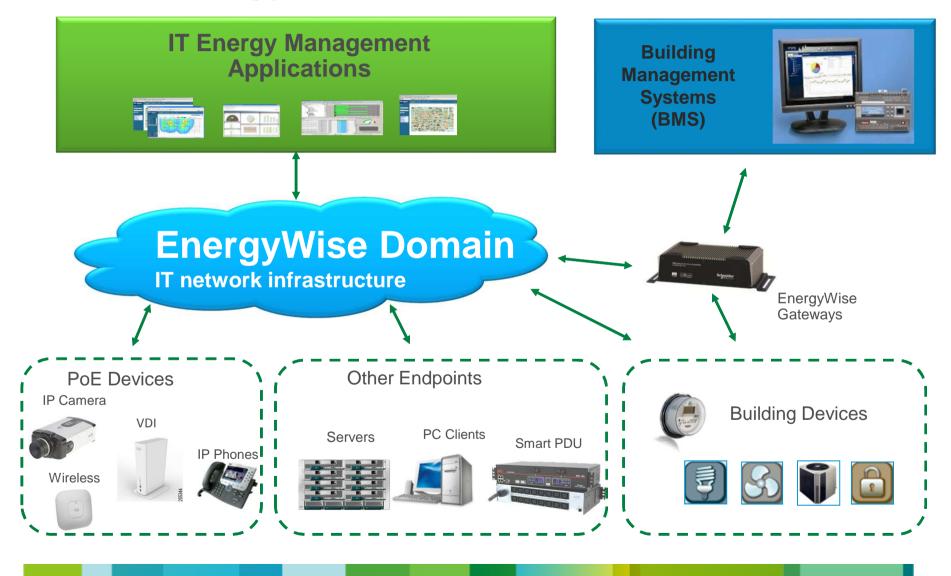
SOLUTION DESCRIPTION

- Policy based energy management via the network
- Delivers both monitoring and control
- Broad adoption across
 - Cisco enterprise platforms
 - Partner applications and devices

CUSTOMER BENEFITS

- Energy and operational cost savings
- Greater visibility into energy usage
- Energy mandate compliance

Cisco EnergyWise Architecture



Summary

IT infrastructure

An important energy **consumer** within buildings An underlying and **unifying platform** for other building technologies

Convergence of IT and facility infrastructure is a big trend Enables **new functionalities** leading to **energy savings** One converged infrastructure is **cheaper** to build and operate

When designing a building:

Don't consider IT as a separate world

Design all the building technology pieces together (IT + BMS + HVAC + lighting)

Use smart & efficient IT infrastructure

Supports energy measurement and control, eg. **EnergyWise** Can deeply interoperate with building management systems

Děkujeme. Thank you.