AERTC 2009

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Buildings Business



Our Customers' Top Challenges

Cost of Energy in the Building

as a key operational challenge

Connectivity

too many disparate systems in the building

Total Building Life Cycle Costs

due to the increasing complexity of building operations

Security

as a growing concern

The Energy Dilemma is Here to Stay

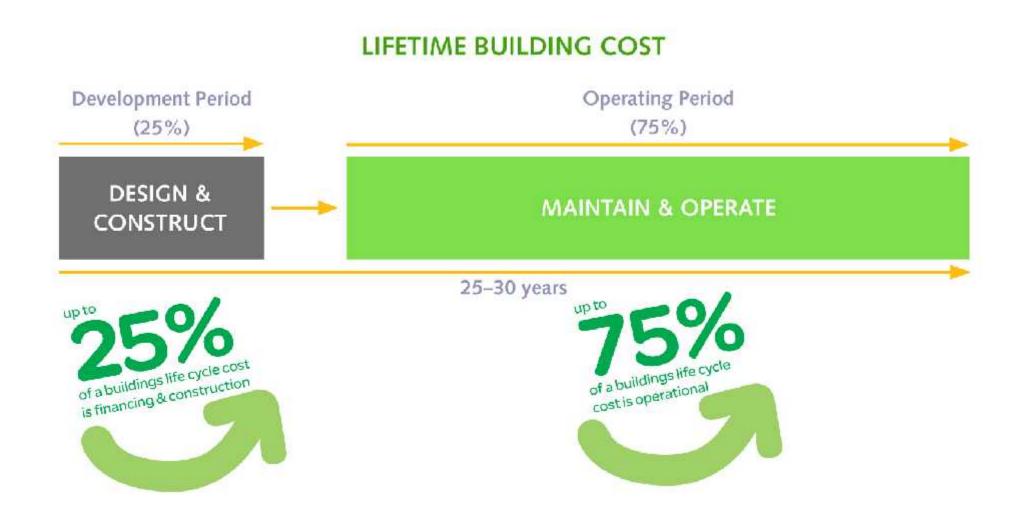
The facts

Energy demand
By 2050

Source: IEA 2007

Energy management is the key to address the dilemma

Life Cycle Cost of a Building



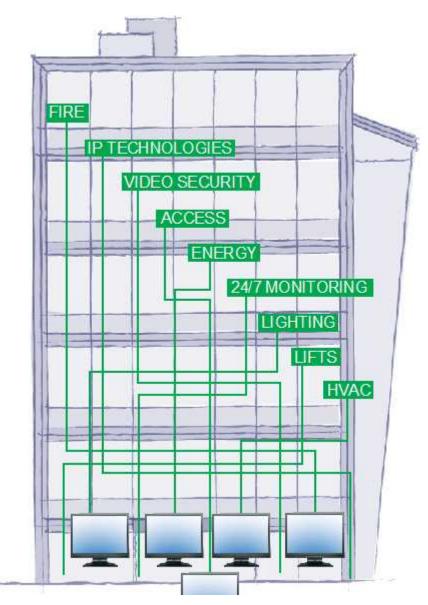
An integrated system can reduce ongoing operational costs by up to 36%

Multiple Silo Systems in the Building

- ? Multiple Networks from Multiple Vendors
- ? Too Many Systems to Learn
- ? Complex Troubleshooting

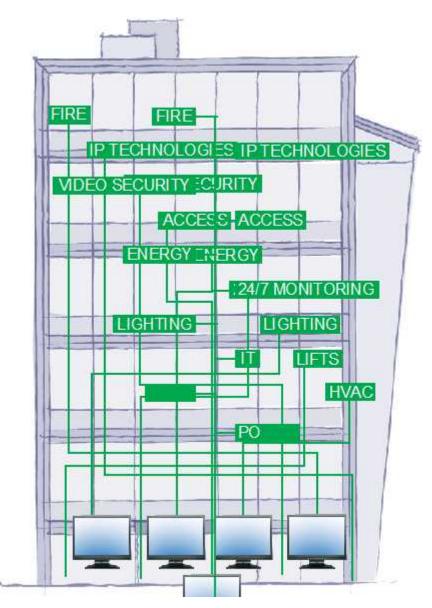
Silo Systems add:

- v CapEx
- v OpEx
- v Obstacles to achieving Energy Efficiency



The Integration Difference

- ? Integrated building infrastructure systems enable:
 - ? Shared Operating Data between Systems via a common Interface
 - ? More Productive and Responsive Staff
 - ? Centralized Services that Reduce Costs
 - ? Lower Cost of Network Ownership
 - ? What gets Measured gets Managed

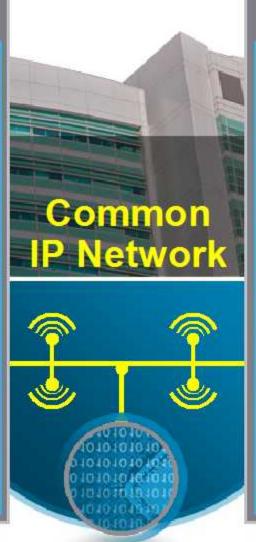


Intelligent Buildings are the Only Way to Solve the Energy Efficiency Challenge

- ?This is great opportunity to think and act in new ways
 - That deliver improved results
 - Economically Save Dollars
 - Technically Save Time
 - Socially Save Planet
- ?Intelligent buildings successfully converge data, voice and video with security, HVAC, lighting on a single network platform
- ? Intelligent buildings demand a new approach to:
 - ? Design and Construction
 - ? Operation and Maintenance
 - ? Empowerment of Human Action

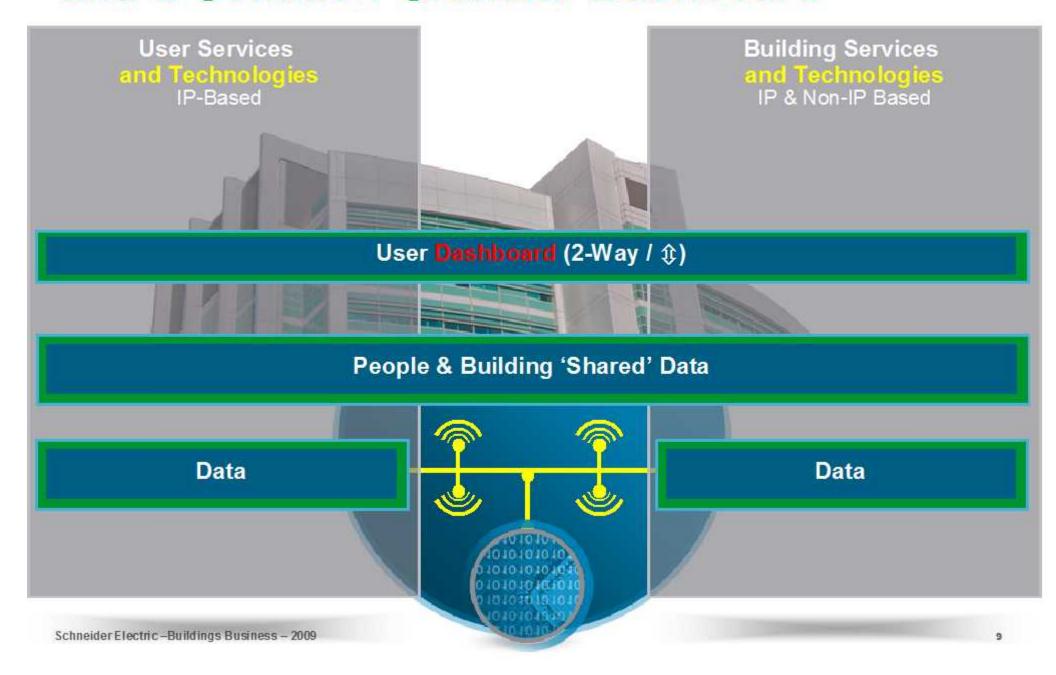
Intelligent Buildings Integrate Independent User & Building Services

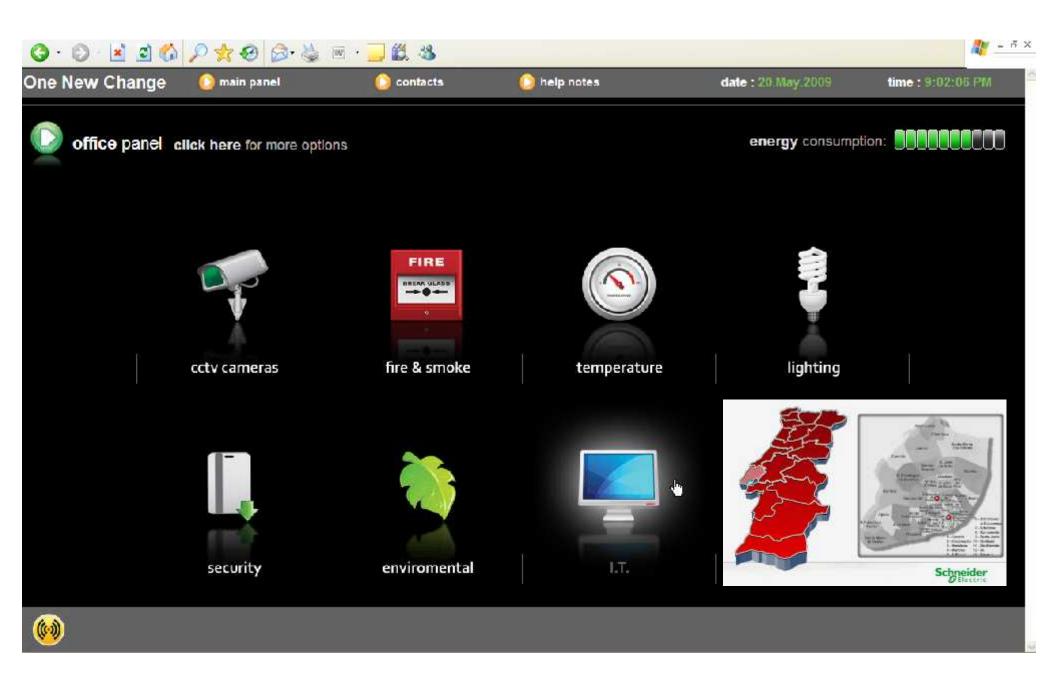
User Services and Technologies IP-Based Wireless VPN IP Telephony Audio and Video Conferencing Visitor Management Interactive Media Digital Signage





Create a Shared / Common Data 'Bucket' and a Common Granular Dashboard





Customer Sound Bites

Municipality

"By 2020 we have committed to reduce our energy consumption by 50% from our 2001 benchmark."

"When we integrate everything in one package we received a 10% CapEx cost reduction. Making the right decision at the beginning it's much cheaper than having to achieve this in a second phase."

"From 2001 to 2007 SE has helped us reduce our energy consumption by approximately 35%"

Convergence in Practice



Mixed Use Shopping Mall

- ?BMS
- ? Access Control
- ? CCTV
- ? Lighting Control
- ? Power Distribution
- ?UPS
- ? Facility Management

Customer Benefit

- ?25% reduction in energy costs
- ?€120 million reduction in investment costs
- ?45% less power consumption
- ? €500k savings in cabling savings
- ? Easier management due to one service contract for the whole facility

Convergence in Practice



Mixed Use Shopping Center

- ?BMS
- ? Access Control
- ? Intruder Detection
- ? IP CCTV
- ? Pedestrian Counting
- ? Tenant Information
- ? IT Infrastructure
 - ?LAN
 - ?Wireless
 - ?Cellular

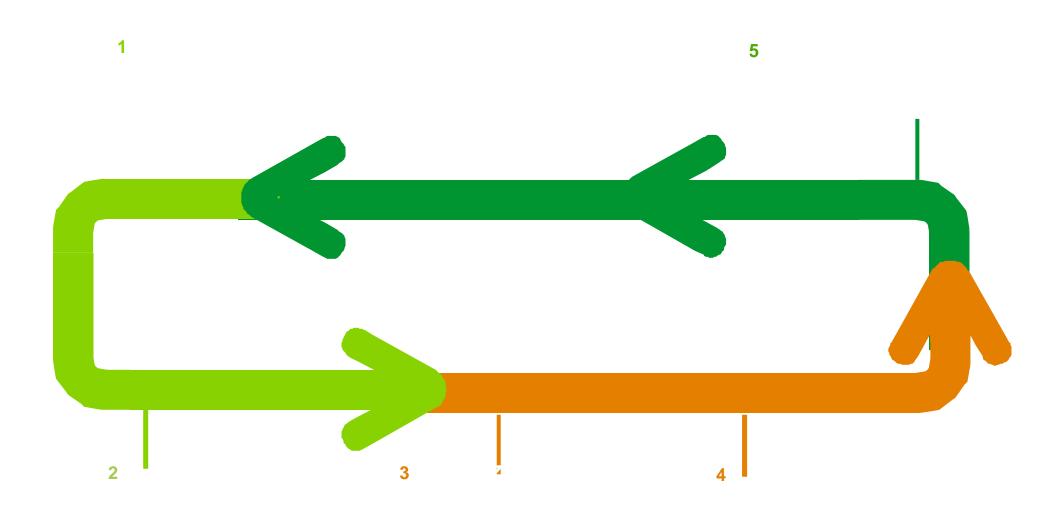
Customer Benefit

- ? CapEx reduced from one common IP network
- ? Proactive theft prevention via streaming video to shop units
- ? Tenant billing based on real time energy data
- ? Shopper analytics
- ? Increased revenue opportunity through lease/use fees of common IP systems

Convergence Value

- ? Lower initial capital expenditures of up to 24%
- ? Reduce ongoing operating expenditures of up to 36%
- ? Significantly reduced energy usage
- ? Improved business performance
 - ?Additional revenue opportunity
 - ?Increased employee productivity
 - ?Improved guest experience
 - ?Ability to meet environmental goals
 - ?Loss reduction
 - ?Revenue protection

Measurement is Fundamental to Energy Efficiency



Delivering Value to Our Customers

A world class team of building experts We listen first and then we deliver real solutions throughout the building life cycle

Converge building automation and IT systems
Many parts work together

Measure and control power Drives energy efficiency

Make buildings comfortable and safe Increases people productivity and maximizes asset value

Business Results
Lower CapEx, Lower OpEX and improved business performance

