



2009 Open Forum for
Standards Developers



Open Standard Interfaces for Buildings & Energy

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Part of the World Standards Week 2009 series of events

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Speaker Perspectives

- ❑ OASIS Technical Advisory Board
- ❑ Team member, NIST Smart Grid Roadmap
- ❑ Smart Grid Interoperability Standards Panel
- ❑ NIST workgroups on B2G and situation awareness for emergency responders
- ❑ FIATECH Element 5 Co-Champion
“The Self Maintaining and Self Repairing Facility”
- ❑ 20 years experiences as Infrastructure Analyst,
UNC Facilities Services



Open standards enable service oriented buildings

- ❑ oBIX
 - WS interface to embedded control systems
 - Enterprise responsive buildings
- ❑ WS-DD & WS-DP
 - Discoverability and SOA4D
- ❑ WS-Calendar
 - from RFC 5545 to WS component



Open standards let buildings interact with the world around them

- Energy Interoperation
 - market oriented interactions with grid
- EMIX
 - energy market information
- WS-Calendar
 - (again)
- Open Floor plan
 - Situation awareness and tenant satisfaction



Doing the right thing trumps doing things right

- Tenant Services and Honest Sustainability
- Day-Trading in New Energy Markets
- Emergency Response Situation Awareness
- Green Leases



Tie building operations to business deliverables

- Leasing agents have the language to sell service performance
- Building agents negotiate between enterprise value and grid-based bids.
- Owner maintains control while complying with new emergency response situation awareness mandates



Sustainability is in services, not in systems

- Use performance-based design to set up perpetual commissioning
- Avoid the trap of code compliance and cut & paste engineering
- Understand true effects of responsiveness and compliance



***“If something is not worth doing,
it`s not worth doing well”***

- Peter Drucker



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