

eCommerce and Smart Grids

***Standards for Homes, Buildings, Industry,
and Electric Vehicles***

Round Table Discussion Grid-Interop 2008

11 November 2008

Agenda

- What is an open standard?
- SOA and Semantics
- Buildings evolution
- Markets as fine grained control
- IPR and Standards ROI
- OASIS Blue Initiative
- Discussion

What is an Open Standard?

An **open standard** is:

- publicly available in stable, persistent versions
- developed and approved under a published, transparent process
- open to public input: public comments, public archives, no NDAs
- subject to explicit, disclosed IPR terms

Anything else is *proprietary*:

- That's not a pejorative, it's a description
- Using a single company's method, or joint work from several companies, may be fine: but these strategies have different risks and qualities than a real open standards process

SOA and Semantics

- Service Oriented Architecture (SOA) is central to modern enterprise development
- COMPOSABLE services
- Larger services tend to be more reusable (enterprise software)
- Adding semantics to SOA increases power

Buildings Evolution

- From Process execution to Service Delivery
- oBIX (WS for control systems)
- WS-DD, WS-DD, & SOPA over UDP
- NBIMS & buildingSmart

Markets for Fine-Grained Control

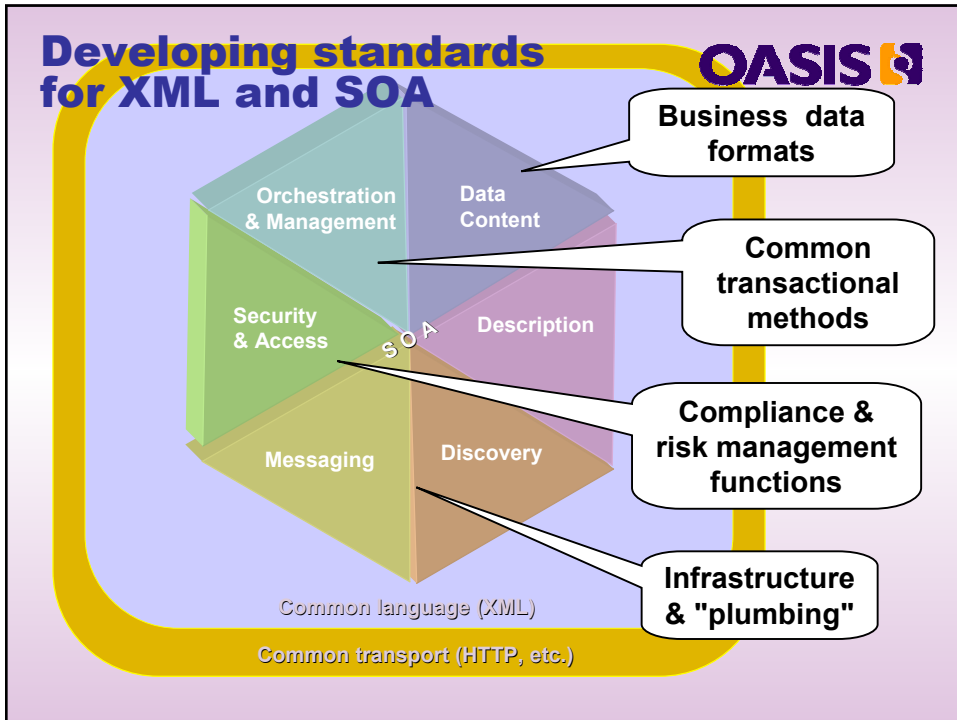
- Markets provide fine-grained control that is
 - Distributed
 - Reliable
 - Responsive
- eCommerce and Fine-grained Security
 - Running many businesses
 - Similarities to parts of the Smart Grid
 - But not for (e.g.) substation networks

Choosing a Venue

- What stature for the result is desired?
 - Stature and importance of venue's other stds
- Natural relationship between subject areas?
- Clear and acceptable IPR policy?
- What support will the venue provide?
 - Training? Support? Community?
- Does the venue collaborate with others?
 - ISO and other "higher level" standards?

Choosing a Venue (continued)

- What are the direct and indirect costs?
 - For you and for other participants?
- Is there a clear process?
 - From charter to final approval?
- How effective and efficient is the process?
- What "consensus" and "openness" is required?
- Have others been pleased with the venue?



OASIS

OASIS drives the development, convergence, and adoption of open standards for the global information society.

Organization for the Advancement of Structured Information Standards

- International
- Not-for-profit
- Founded in 1993
- 5,000 participants representing 600 organizations in 100 countries
- Home to more than 60 committees



The New York Times

**“The largest standards group for
electronic commerce on the Web**

[is] the Organization for the Advancement of Structured Information Standards.”

OASIS Blue

*An open standards initiative for
applying the lessons of eCommerce
to the new world of
distributed, interactive energy*

OASIS Blue Goals

- Bring together stakeholders in safe, vendor-neutral environment
- Work within respected standards process
- Share the context
- Exploit existing eCommerce and security standards
- Establish action plan for standardization and implementation



Get Blue

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Discussion

- Some ideas
 - Define an architecture
 - Inventory standards assets
 - Determine applicability
 - Determine relevance
- Don't Reinvent
 - Repurpose
 - Reuse
 - Realign