



eCommerce and Smart Grids

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



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



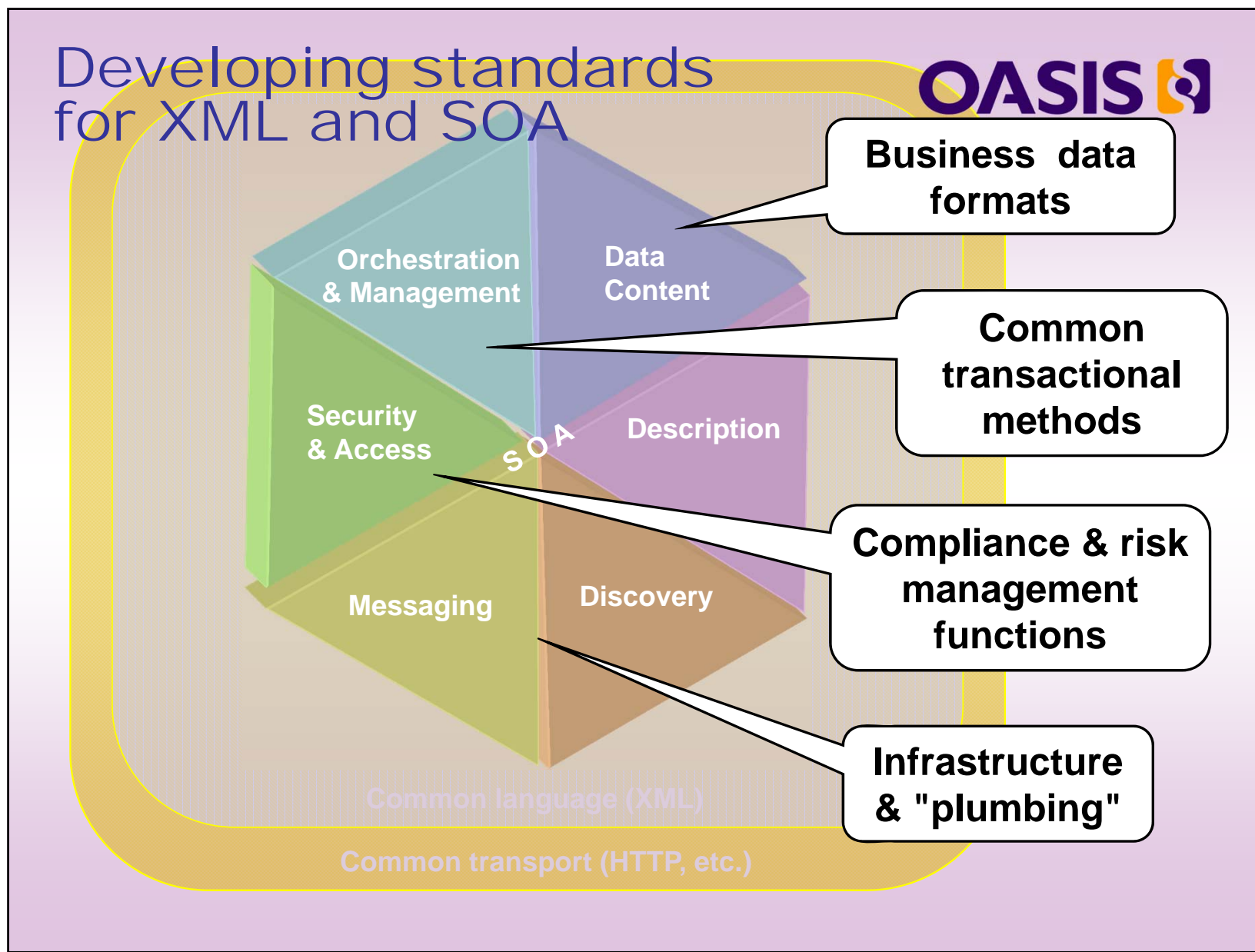
Choosing a Venue

- 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 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 

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

blue@oasis-open.org



Discussion

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