



OASIS Smart Grid Standards

Coordinating Money, Time, Space, and Energy

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GWAC Meeting, May 2009



Introduction

- Who are we?
 - Bill—Enterprise and eBusiness architect
 - Toby—Building Automation and Visionary
 - Together working to enable the transactive grid and collaborative energy



Standards In Progress

- based on consensus within the X2G DEWGS.
- aligned with key goals from Smart Grid Workshop May 19-20
- grounded in architectural principles:
 - Loose Coupling
 - Symmetry
 - Transparency
 - Composition



Energy Market Information Exchange

- Signing up supporters now; formal submission end of May
- XML Vocabulary with consistent view of
 - Price and Quantity and Units
 - Energy Attributes (source, carbon, etc)
 - Calendar/Time (for forward markets, dynamic pricing, etc)
- Subset to use for simple devices to complex markets
- <http://lists.oasis-open.org/archives/smartgrid-interest/200903/msg00003.html>

Market Design and Description

What Is Communicated - Price, Characteristics

How It's Communicated - Messages, Protocols



Time: WS-Calendar

- ICalendar for Web Services
- Micro-specification for use in EI, oBIX, EMIE, WSDM, other shared business processes
- Cross-references with other packets within XML document
- Results not Process

<http://www.newdaedalus.com/storage/WSCalendarDraft0.pdf>



Space: OGC Standards

- Standards for identifying use
- Standards for identifying congestion
- Standards for summing response

Enhancing situation awareness



Open Automated Demand Response

- Lawrence Berkeley Labs Demand Response Center
- OASIS Energy Interoperation Technical Committee formed; first meeting June 22, 2009
- XML Vocabulary for messages, messages, and interoperation protocol
- Goal—Automated DR for buildings, industrial facilities, homes, vehicles; price communication messages
- Method—Work with UCAIug on requirements; coordinate with other DR standards where feasible
- <http://lists.oasis-open.org/archives/tc-announce/200905/msg00004.html>



Questions?

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