

IEEE P2030 Smart Grid Interoperability Standards Development Task Force Session TF-2 Report June 3-5, 2009

Hosted by INTEL, Corporation, Santa Clara, CA

**IEEE Standard 2030 Guide for Smart Grid Interoperability of Energy
Technology and Information Technology operation with the Electric
Power System (EPS) and End-Use Applications and Loads**

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Task Forces 2. Information Technology (IEEE P2030 TF-2)

- Address - Smart Grid Definitions, Topologies, Interoperability, end-use, interfaces, and integration, etc.)
- Systems Approach –focused on Functional and Performance Attributes including Test and Verification methods
- Co-Leaders : Bob Grow
- Recorder: Mike Coddington

Rough Agreements – Architecture

- ❑ **Privacy – support different ownership of data (aggregation enhances, high granularity compromises)**
- ❑ **Security – intrusion prevention and detection, focused on demarcs**
- ❑ **Data Integrity – undetected error requirements, communications and storage**
- ❑ **Safety – human (support for overrides), device and grid**
- ❑ **Customer requires multi-manager (utility and customer) for both status and control**

Rough Agreements (cont.)

Information Technology (IEEE P2030 TF-2)

- **Begin with DEWG interfaces to define interoperability demarcation points**
 - Each interface will have unique requirements
 - Volunteer group for generation, transmission and distribution
 - Volunteer group for consumer
- **Also will consider “intrafaces” (within a cloud)**
- **Focus on object oriented device/function definitions**
 - Accommodate “dumb” devices (aggregated)
 - Data structures, definitions and formats