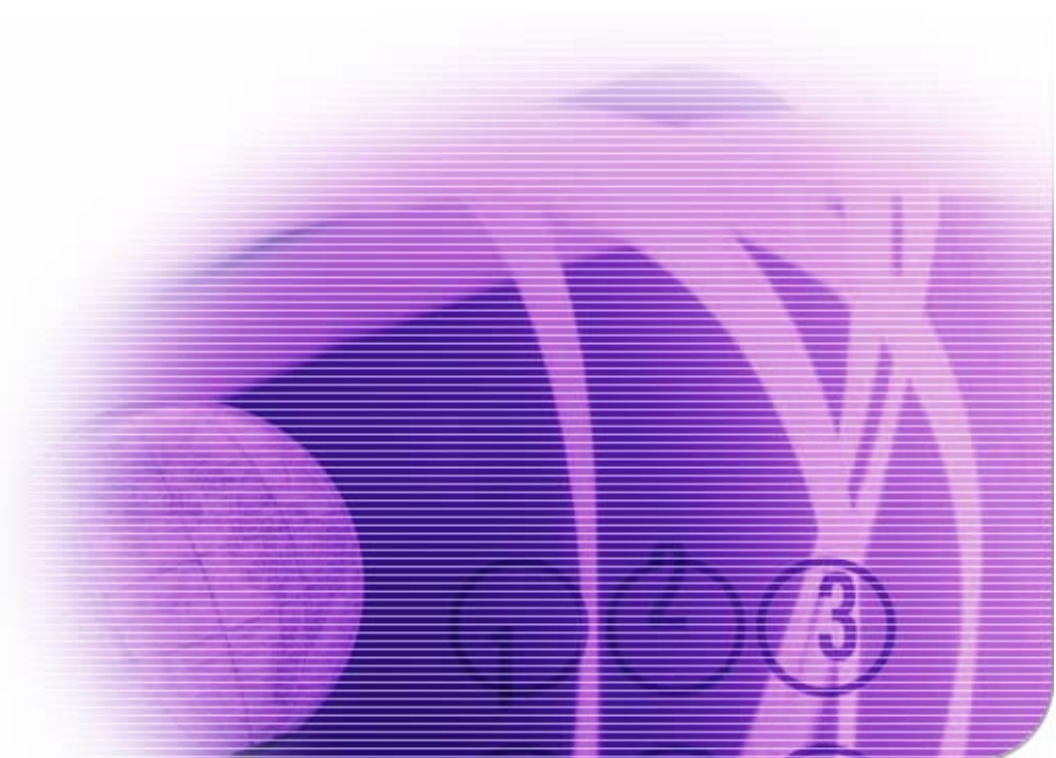


# PSCE09 - CIM Status Update Panel Session

## Introduction

Ed Dobrowolski, NERC





## Panel Session Agenda

- ▶ Introduction & Update on CIM Documentation Status – Ed Dobrowolski, NERC
- ▶ Justifying the CIM – Terry Saxton, Xtensible Solutions
- ▶ Specifying the CIM – Jay Britton, Areva
- ▶ CMM Report for '08 – Kendall Demaree, Areva
- ▶ CIM Model Manager Update – Kurt Hunter, Siemens
- ▶ CIMug Interaction with IEC – Randy Rhodes, Pacificorp
- ▶ Experiences at ERCOT – John Moseley, ERCOT
- ▶ Panel Q&A



## Update on CIM Documentation Status

- ▶ CIM documentation split into 5 major categories
  - ▶ 61970-1: Guidelines and General Requirements
  - ▶ 61970-2: Glossary
  - ▶ 61970-3xx: Common Information Model
  - ▶ 61970-4xx: Component Interface Specifications (CIS)
  - ▶ 61970-5xx: CIS Technology Mappings



## Documentation Status Codes

- ▶ NWIP = New Work in Progress
- ▶ WD = Working Draft
- ▶ CD = Committee Draft
- ▶ CDV = Committee Draft for Vote
- ▶ FDIS = Functional Draft International Standard
- ▶ IS = International Standard
- ▶ MRC = Maintenance Review Cycle



## -1, -2, & -3xx

- ▶ -1: Guidelines and General Requirements
  - ▶ Describes the component based reference model
  - ▶ Includes general capabilities for integration infrastructure
  - ▶ Status = IS
- ▶ -2: Glossary
  - ▶ Status = IS
- ▶ -3xx: CIM
  - ▶ 301: Paper copy of the model
    - Published yearly by IEC as IS/MRC
    - Latest version: CIM13, v19
    - Electronic copy on CIMug web site

-4xx

- ▶ **Component Interface Specifications (CIS)**
  - ▶ Interfaces that a component should implement to be able to exchange information with other components
  - ▶ Information content (messages) that a component exchanges
  
- ▶ **2 major divisions**
  - ▶ 401 – 449: Generic service specifications
  - ▶ 450 – 499: Specific information exchange requirements



## -401 to -404

- ▶ -401: Integration Interface Specification Framework
  - ▶ Overview of interfaces and methodology
  - ▶ Status = IS
- ▶ -402: Common Services
  - ▶ Foundational API
  - ▶ Status = IS
- ▶ -403: Generic Data Access
  - ▶ Services needed to access public objects
  - ▶ Status = IS
- ▶ -404: High Speed Data Access
  - ▶ Interface for efficient transfer of data in a distributed environment
  - ▶ Status = IS



## -405 to -407

- ▶ -405: Generic Eventing and Subscription
  - ▶ Interface for efficient transfer of event and alarm messages in a distributed environment
  - ▶ Status: IS
- ▶ -406: Program Invocation
  - ▶ Interface for clients to request a server to run and monitor a process in a distributed environment
  - ▶ Status: On Hold
- ▶ -407: Time Series Data Access
  - ▶ Interface for efficient exchange of time series data in a distributed environment
  - ▶ Status: IS



## -450 to -452

- ▶ -450: Information Exchange Model Specification Guide
  - ▶ Overview of the process used to define and document information content and exchange mechanisms
  - ▶ Status = On Hold
- ▶ -451: Information Exchange Model For SCADA
  - ▶ Define message exchange formats
  - ▶ Status = On Hold
- ▶ -452: Transmission Network Model Exchange Profile
  - ▶ Specific profile of the CIM for exchange of static power system data between utilities, security coordinators, and other entities
  - ▶ Status = CDV



## -453 to -456

- ▶ -453: CIM based Graphics Exchange
  - ▶ Guidelines for exchange of graphic schematic definitions
  - ▶ Status = IS?MRC
- ▶ -454: Naming Service Specification
  - ▶ Use of multiple names (URI's) for the same resource and the need for a cross-reference between the multiple names
  - ▶ Status = CD
- ▶ -455: Model Population Interface
  - ▶ Status = NWIP w/ CD
- ▶ -456: Network Solution Interface
  - ▶ Transfer data created during typical network analysis processes
  - ▶ Status = NWIP



## -501 to -503

- ▶ -501: RDF Schema
  - ▶ Specifies the mapping between the conceptual model (UML) and the XML representation of that schema
  - ▶ Status = IS
- ▶ -502-8: Web Services Profile for Generic Services
  - ▶ Specific implementable technical profile for the -402 to -499 Generic Services
  - ▶ Status = CD
- ▶ -503-8: GDA 'C' Language Profile
  - ▶ 'C' Language profile for the -403 Generic Data Access service
  - ▶ Status = WD



## -505, -552, & -553

- ▶ -505: OWL Schema
  - ▶ Formulation of CIM profiles in OWL
  - ▶ Status = NWIP
- ▶ -552-4: XML Model Exchange Format
  - ▶ Describes the CIM XML format at a level to support implementing the model exchange requirements in IEC -452
  - ▶ Status = FDIS
- ▶ -553-4: CIM Based Graphics Exchange Format
  - ▶ Describes the CIM SVG graphics exchange format at a level to support implementing the graphic schematics exchange requirements in -453
  - ▶ Status = CD



## Accessing Documents

- ▶ FDIS & IS documents are only available from IEC for a fee
- ▶ WD, CD, and CDV documents are available on the CIMug web site
- ▶ See Randy Rhodes (Utility Co-Chair) or Terry Saxton (Vendor Co-Chair) for information on joining the CIMug
- ▶ Or visit the site at: <http://cimug.ucaiug.org>