

Agenda

CIM Users Group 2018 Fall North American Meeting

Breaking Down Data Silos Using the CIM

23-25 October 2018

Dallas, Texas USA

CIM University Agenda

Tuesday, 23 October 2018

Time	Track 1 CIM Basics and Enterprise Integration	Track 2 CIM and Network Analysis	Track 3 CIM Tools
9:00 – 9:15	Introduction and Logistics <i>Terry Saxton (Xtensible)</i>		
9:15 – 9:45	Introduction to the CIM Standards and Architecture <i>Terry Saxton (Xtensible Solutions, Inc.)</i> This session provides an overview of the CIM standards, how they are organized, and how they are used to exchange information between applications/systems. Topics will include:	Power System Modeling Basics <i>Pat Brown (Electric Power Research Institute); Jay Britton (Britton Consulting)</i> CIM and network models: - Anatomy of power flow data (through the eyes of the CIM) - Partitioning into profiles	CIM UML <i>Margaret Goodrich (Project Consultants, LLC)</i> Learn about the UML that is used to define the Common Information Model (CIM) and describe the utility domain information
9:45 – 10:00	are used to exchange information between applications/systems. Topics will include:	Network Model - EQ Profile (Foundation) <i>Alan McMorran (Open Grid Systems)</i> The basics of the physical network model profile for steady state: - Modeling a substation with CIM objects - Connectivity in bus-branch or nodebreaker - Containment	CIMTool – A CIM Profiling Tool <i>Margaret Goodrich (Project Consultants)</i> Learn about the open-source tool for managing CIM-derived models, profiles, and schemas.
10:00 – 10:15	What is “the CIM?” - Role of the CIM in the Smart Grid architecture - Importance of CIM as a semantic model - Motivation for the coverage of CIM, what can be modeled, how does that save time and money in integration? - Three-layer architecture for organizing CIM standards - Work flow from semantic model to message/file assembly using CIM - Layer 1: CIM UML information model and contents - IEC 61970 and 61968 standards - Example: Substation model using CIM - Demo of UML modeling Tool – Sparx	- Energy input and output	

10:15 – 10:30			CIMTool – A CIM Profiling Tool (Continued) <i>Margaret Goodrich (Project Consultants)</i> Learn about the open-source tool for managing CIM-derived models, profiles, and schemas.
10:30 – 10:45	BREAK		
10:45 – 11:15	Introduction to the CIM and Related Standards (Cont'd) <i>Terry Saxton (Xtensible Solutions, Inc.)</i> The session continues the introduction started in the earlier session by exploring information exchange techniques and enterprise semantic modeling	ERCOT's NMMS - Network Model Management In Action <i>Margaret Goodrich (Project Consultants)</i> Overview of the history and functionality of ERCOT's CIM-based Network Model Management System (NMMS).	Introduction to Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn how to download Enterprise Architect and work with its user interface.
11:15 – 11:45	- Layer 2 , Profiles and profiling methodology for defining system interfaces – IEC 61970 and 61968 - Layer 3 , Message assembly and RDF/XML serialization technologies - Value of an Enterprise Semantic Model (ESM) based on the CIM - Case studies - Where to get more CIM information	AEP's T-Nexus – Update on NMM Implementation <i>Margaret Goodrich (American Electric Power)</i> Report on Europe's CIM-based standardization and ENTSO-E's pan-European data exchange implementation. (These presentations will begin after Alan's session is completed)	Configuring Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn how to customize Enterprise Architect to personalize your Enterprise Architect working environment.
11:45 – 12:15		Network Model - EQ Profile <i>Charles DuBose (Project Consultants)</i> More complex parts of the physical network model profile: - Transformers - HVDC - Short circuit - Unbalanced This session continues after lunch.	Getting Started with Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn how to build a model from scratch and how to navigate a model in Enterprise Architect.
12:15 - 13:15	LUNCH		
13:15 – 13:30	T1 - Information Model & Reference Model <i>Margaret Goodrich (Project Consultants, LLC)</i> Learn about the CIM as an Information Model & as a Reference Model.	Network Model - EQ Profile (Special Topics) <i>Chuck DuBose (Project Consultants)</i>	Getting Started with the CIM in Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn how to download the CIM IRM and the CIM UML model Learn how to use the CIM IRM and how to explore the CIM UML model in Enterprise Architect.
13:30 – 13:45	Network Operations (IEC 61968-PART 3) Margaret Goodrich (Project Consultants, LLC) & Assets (IEC 61968-PART 4) Pat Brown (EPRI) Learn about Part 3 of IEC 61968: Network Operations and Assets and Asset Health in Part 4	Network Model – DY Profile (special topics) <i>Pat Brown (EPRI)</i> The CIM approach to standard dynamics model exchange.	
13:45 – 14:00		Network Model - DL Profile <i>Alan McMorran (Open Grid Systems)</i>	

		The DL (schematic layout) profile.	
14:00 – 14:15	DER (IEC 61968-PART 5) <i>Gerald Gray (Electric Power Research Institute)</i> Learn about Part 5 of IEC 61968: Distributed Energy Resources.	Network Model - SSH Profile <i>Charles DuBose (Project Consultants)</i> Power flow case inputs. - SSH – Steady State Hypothesis profile – Status – Controls – Limits – Energy distribution	Extending the CIM in Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn the rules and recommendations for creating CIM extensions. Learn how to create a utility specific instance of the CIM with extensions.
14:15 – 14:45	Maintenance & Construction (IEC 61968-PART 6) <i>Margaret Goodrich (Project Consultants, LLC),</i>		
14:45 – 15:15	Customer Support Interfaces (IEC 61968-PART 8) <i>Gerald Gray (Electric Power Research Institute)</i> and Meter Reading & Control (IEC 61968- Part 9)	Network Model - TP, SV Profiles <i>Alan McMorran (Open Grid Systems)</i> Power flow case outputs. TP – Topology profile SV – State Variables profile	Creating CIM Profiles in Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Learn how to create schema models in Enterprise Architect. Get an introduction to the Schema Composer tool in Enterprise Architect. Start the creation of a CIM message profile with Schema Composer.
15:15 – 15:30	<i>Margaret Goodrich (Project Consultants, LLC)</i> Learn about both Part 6 of IEC 61968: Maintenance & Construction and learn about Part 8: Customer Support Interfaces and Part 9 of IEC 61968: Meter Reading and Control.	Variations (Changes) <i>Pat Brown (Electric Power Research Institute)</i> Modeling of change over time. Prospective changes to the network model (projects).	
15:30 – 15:45	BREAK		
15:45 – 16:15	Interface Specification Documentation <i>Margaret Goodrich (Project Consultants, LLC)</i> Interface Specification Documentation details.	Network Model Parts and Assembly <i>Jay Britton (Britton Consulting)</i> Approaches to model maintenance and case assembly activities. Modularization by instances: - Division into MAS with boundaries - Frameworks - Recursion	Schema Composer in Enterprise Architect <i>Henry Dotson (Mandla Solutions)</i> Complete creation of a CIM message profile in Schema Composer. Learn about importing and validating CIM message profile in Schema Composer.
16:15 – 16:30	CIM-Based Integration – A Deep Dive <i>Margaret Goodrich (Project Consultants, LLC)</i>	Model Assemblies: - Datasets - Functions - Scripts - Audit Trails	Track 3 Wrap-Up <i>Henry Dotson (Mandla Solutions)</i>
16:30 – 16:45	A deep dive into CIM-based integration.		Q&A Session
16:45 – 17:15	Panel Session - CIM In Practice Come to a panel discussion about CIM in the real world		
17:30 – 19:30	NETWORKING RECEPTION Drinks and Heavy Hors d'oeuvres Provided 8 th Floor, Oncor Meeting Facilities - Hosted by UCA and Oncor		

Agenda

CIM Users Group 2018 Fall North American Meeting Breaking Down Data Silos Using the CIM

23-25 October 2018
Dallas, Texas USA

CIM Plenary Session

Wednesday, 24 October 2018

Time	Topic	Presenter
8:30 – 9:00	Registration and Coffee/Tea	
	Session 1, Introduction and Sponsor Presentations	
9:00 – 9:30	Welcome and Introductions	<i>Eric Hatter (AEP) Terry Saxton (Xtensible)</i>
9:30 – 10:00	Where We Were, Where We Are, and Where We're Headed	<i>Mark Carpenter (Oncor)</i>
10:00 – 10:15	Siemens PTI and CIM – Technology and Innovation	<i>Sam Phillipson (Siemens PTI)</i>
10:15 – 10:30	Sponsor Presentation	<i>Ron Ingram, OSI International</i>
10:30 – 11:00	BREAK	
	Session 2, Utility Case Stories	
11:00 – 11:30	ONCOR - Lessons learned using a CIM-based model manager for coordinating data from multiple systems for network analysis	<i>David Bogen, Oncor</i>
11:30 – 12:00	Utility Data & Messaging Modeling – CIM-based Catalog and Integrating Techniques	<i>Ron Cunningham, AEP</i>
12:00 – 13:00	LUNCH	
	Session 3, Harmonizing CIM with 61850 for distribution and DER applications	
13:00 – 13:30	Extending ADMS and FLISR Applications through CIM and IEC 61850 Harmonization	<i>H. Falk, Outside the Box Consulting Services; M. Adamiak, Adamiak Consulting; E. Udren and S. Ward, Quanta Technology</i>
13:30 – 14:00	DER Use Cases for CIM Harmonization	<i>Tom McDermott, PNNL; David Bogen, Oncor</i>
14:00 – 14:30	RESTful CIM using the Open Data Protocol	<i>Alan McMorran, Open Grid Systems</i>
14:30 – 15:00	BREAK	
	Session 4, Utility Case Stories (continued)	
15:00 – 15:30	A CIM-Based Methodology for External Model Update of Real-time System Network Models	<i>Yidan Lu, AEP</i>
15:30 – 16:00	ENTSO-e Update: The latest use of CIM at ENTSO-e	<i>Terry Saxton (Xtensible)</i>
16:00 – 17:00	Vendor Presentations <i>(Equal time allocated to vendor sponsors)</i> <ol style="list-style-type: none"> 1. Siemens PTI CIM-Based Deployment Scenarios 2. SISCO, Inc. 3. Xtensible 4. OSI International 	<ol style="list-style-type: none"> 1. Sam Phillipson (Siemens PTI) 2. Ralph Mackiewicz (SISCO) 3. Greg Robinson (Xtensible) 4. Ron Ingram
17:00 – 19:00	Evening Reception Hospitality & Vendor Demonstrations	

CIM Plenary Session
Thursday, 25 October 2018

Time	Topic	Presenter
8:30 – 9:00	Registration and Coffee/Tea	
	Session 5, Latest developments and applications of OpenFMB (Open Field Message Bus)	
9:00 – 9:30	Enhancing OpenFMB Interoperability with CIM and IEC 61850 Artifacts	<i>Stuart Laval, Duke Energy; L. Lackey, Open Energy Solutions; S. Hu, Xtensible Solutions; L. Childress, SISCO; G. Gray, EPRI</i>
9:30 – 10:00	OpenFMB Users Group Update and its Application at Utilities	<i>Stuart Laval, Duke Energy; Larry Lackey, Open Energy Solutions</i>
10:00 – 10:30	BREAK	
	Session 6, R&D with CIM in distribution modeling applications	
10:30 – 11:00	Developing a CIM-Based Architecture for Distribution Grid Model Data Management	<i>Pat Brown, EPRI</i>
11:00 – 11:30	The Enduring Value of the CIM in Technologically Diverse Solutions,	<i>Eric Stephan, PNNL</i>
11:30 – 12:00	Simplified Tools for Adoption/Integration of CIM	<i>Ron Ingram, OSI International</i>
12:00 – 13:00	LUNCH	
	Session 7, New developments for distribution and CIM model management	
13:00 – 13:30	Leveraging CIM for Electrical, Water and Wastewater Asset Management at JEA	<i>Michael Eaton, Phillip Jones, Henry Dotson and Greg Robinson</i>
13:30 – 14:00	Extending CIM for distribution applications	<i>Emily Ma and Evert Timberg, Opus One Solutions</i>
14:00 – 14:30	What's New in the Latest CIM UML Model Release (Model Managers Report)	<i>Margaret Goodrich (Project Consultants, LLC)</i>
14:30 – 15:00	Ask The Experts: Panel Session	<i>Moderator: Ralph Mackiewicz (SISCO, Inc.)</i>
15:00 – 15:30	Closing Comments & Two \$100 Amazon Gift Card Drawing (must be present to win)	<i>Eric Hatter (AEP) Terry Saxton (Xtensible)</i>
15:30	Adjourn	