

Agenda

CIM Users Group 2019 Spring European Meeting
“Use of CIM for Data Integration in Support of European Regulations
between DSO, TSO & Market Participants”
 18-20 June 2019
 Saclay, France

CIM University Agenda

Tuesday, 18 June 2019

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>Margaret Goodrich (PCIték)</i>		
9:15 – 9:30	Introduction to the CIM Standards and Architecture <i>David Bogan (ONCOR)</i> This session CIM standards, how they are organized, and how they are used to exchange information between applications/systems. Topics will include: 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	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	MODSARUS for Use Case & Profiling (45) Use Case Management and Information Model (CIM, 61850) profiling tool <i>Jerome Cantenot (EDF)</i>
9:30 - 9:45		Tour of Major CIM Network Model Implementations How the CIM approach to structuring network model data is being leveraged by utilities in the US and Europe <ul style="list-style-type: none"> • ERCOT’s NMMS <i>Margaret Goodrich</i> • ENTSO-E’s DACF and IGM/GCM <i>TBD</i> • AEP’s T-Nexus <i>Margaret Goodrich</i> 	
9:45 – 10:00		Network Model - EQ Profile (Foundation) <i>Alan McMorran (Open Grid Systems)</i>	
10:00 – 10:15			Riseclipse (30) Learn about the tool for validating CIM and 61850 data related profiles. <i>Aurélie DEHOUCQ-NEVEU (EDF)</i>
10:15 – 10:30			

		<p>The basics of the physical network model profile for steady state:</p> <ul style="list-style-type: none"> - Modeling a substation with CIM objects - Connectivity in bus-branch or nodebreaker - Containment - Energy input and output <p>This session continues after break.</p>	
10:30 – 10:45	BREAK		
10:45 – 11:00	<p>Introduction to the CIM and Related Standards (Cont'd) <i>David Bogan (ONCOR)</i> The session continues the introduction started in the earlier session by exploring information exchange techniques and enterprise semantic modeling</p> <ul style="list-style-type: none"> - Layer 2, Profiles and profiling methodology for defining system interfaces – IEC 61970 and 61968 	<p>Network Model - EQ Profile (Foundation, (Cont'd) <i>Alan McMorran (Open Grid Systems)</i></p>	<p>CIM UML (15) <i>Margaret Goodrich (PCIttek)</i> Learn about the UML that is used to define the Common Information Model (CIM) and describe the utility domain information.</p>
11:00 – 11:15	<ul style="list-style-type: none"> - Layer 3, Message assembly and RDF/XML serialization technologies - Value of an Enterprise Semantic Model (ESM) based on the CIM - Case studies 		<p>CIMTool – A CIM Profiling Tool (60) <i>Margaret Goodrich (PCIttek)</i> Learn about the open-source tool for managing CIM-derived models, profiles, and schemas.</p>
11:15 – 11:30	<ul style="list-style-type: none"> - Where to get more CIM information 	<p>Network Model - EQ Profile <i>Svein Harald Olsen (Statnett)</i> More complex parts of the physical network model profile:</p> <ul style="list-style-type: none"> - Transformers - HVDC - Short circuit - Unbalanced 	
11:30 – 11:45			
11:45 – 12:00			
		<p>This session continues after lunch.</p>	
12:00 - 13:00	LUNCH		
13:00 – 13:30	<p>T1 - Information Model & Reference Model <i>Margaret Goodrich (PCIttek)</i> Learn about the CIM as an Information Model & as a Reference Model.</p>	<p>Network Model - EQ Profile (Special Topics)</p>	<p>CIMContextor & CIM SyntaxGen (75) <i>A Maizener/ JL Sanson (Zamiren)</i> CIMContextor - Learn about an Open-source tool for managing UML CIM derived models, profiles and schemas, according to IEC standards. This tool is used to manage Entsoe European profiles (CGMES and Market).</p>
13:30 – 13:45	<p>Network Operations (IEC 61968-PART 3) Margaret Goodrich (PCIttek) & Assets (IEC 61968-PART 4) Pat Brown (EPRI) Learn about Part 3 of IEC</p>	<p>Network Model – DY Profile (special topics) <i>Pat Brown (EPRI)</i> The CIM approach to standard dynamics model exchange.</p>	
13:45 – 14:00	<p>61968: Network Operations and Assets and Asset Health in Part 4</p>	<p>Network Model - DL Profile <i>Alan McMorran (Open Grid Systems)</i> The DL (schematic layout) profile.</p>	

14:00 – 14:15	DER (IEC 61968-PART 5) <i>Stephan Amsbary (Electric Power Research Institute)</i> Learn about Part 5 of IEC 61968: Distributed Energy Resources.	Network Model - SSH Profile <i>Svein Harald Olsen (Statnett)</i> Power flow case inputs. - SSH – Steady State Hypothesis profile – Status – Controls – Limits – Energy distribution	
14:15 – 14:30	Maintenance & Construction (IEC 61968-PART 6) <i>Margaret Goodrich (PCIttek),</i> Customer Support Interfaces (IEC 61968-PART 8)		Enterprise Architect – Lab #1a (15) <i>Henry Dotson (Mandla Solutions)</i> Learn how to navigate in Enterprise Architect
14:30 – 14:45	<i>Stephan Amsbary (Electric Power Research Institute) and</i> Meter Reading & Control (IEC 61968- Part 9) <i>Margaret Goodrich (PCIttek)</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.	Network Model - TP, SV Profiles <i>Alan McMorran (Open Grid Systems)</i> Power flow case outputs. TP – Topology profile SV – State Variables profile	Enterprise Architect – Lab #1B (15) <i>Henry Dotson (Mandla Solutions)</i> Learn how to create various diagrams in Enterprise Architect.
14:45 – 15:15		Variations (Changes) <i>Pat Brown (Electric Power Research Institute)</i> Modeling of change over time. Prospective changes to the network model (projects).	Enterprise Architect – Lab #2 (45 Minutes) <i>Henry Dotson (Mandla Solutions)</i> Learn how to build a standard enterprise architecture model in Enterprise Architect and how to create CIM compliant schemas using Enterprise Architect’s Schema Composer tool.
15:15 – 15:30			
15:30 – 15:45	BREAK		
15:45 – 16:00	Interface Specification Documentation <i>Margaret Goodrich (PCIttek)</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 Model Assemblies: - Datasets - Functions - Scripts - Audit Trails	Core CIM Integration Concepts & Lab 3 – Schema Modeling 2: (60 Minutes) <i>Henry Dotson (Mandla Solutions)</i> Lab 3 Learning Objectives <ul style="list-style-type: none"> • Learn best practices for creating a schema model • Introduction to Schema Composer • Create a message profile with Schema Composer
16:00 – 16:45	CIM-Based Integration – A Deep Dive <i>Margaret Goodrich (PCIttek)</i> A deep dive into CIM-based integration.		
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 EDF Meeting Facilities - Hosted by UCA and EDF		

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18-20 June 2019

Saclay, France

CIM Plenary Session

Wednesday, 19 June 2019

DAY 1

Time	Topic	Presenter
8:30 – 9:00	Registration and Coffee/Tea	
	Session 1, Introduction and Keynote Presentations	
9:00 – 9:30	Welcome and Introductions	<i>David Bogen (ONCOR) Margaret Goodrich (PCItek)</i>
9:30 – 10:00	EDF Group and standardization	<i>Richard Schomberg, Standardization Director (EDF R&D)</i>
10:00-10:30	New challenges for the distribution system and priority needs for data integration	<i>Gilles Nativel, Enedis, Standardization responsible and President of the French Electrotechnical Committee (CEF)</i>
10:30 – 10:45	BREAK	
	Session 2, Sponsor Presentation	
10:45 – 11:00	Leveraging CIM standards as a foundation for future digitalization use cases within utilities	<i>Martin Mangold</i>
11:00 – 11:30	Overtuig de Asset Manager/convince the Asset Manager: Language localization of IEC-CIM.	<i>Joep van Genuchten (Alliander)</i>
11:30 – 12:00	PowSyBI: An open source, high-performance and modular framework for power system simulations and analytics	<i>Jean-Baptiste Heyberger (RTE, France)</i>
12:00 – 13:00	LUNCH	
	Session 3, Utility Case Studies - 1	
13:00 – 13:30	Use of IEC CIM Standards by EDF SEI: ongoing projects and perspectives	<i>Eric Lambert</i>
13:30 – 14:00	CIM profiling applied to European market exchanges	<i>Karyn Jean- Francois (RTE)</i>
14:00 – 14:30	Exploiting CIM for measurement data integration and semantic reasoning	<i>Artem Schumilin (KIT)</i>
14:30 – 14:45	BREAK	
	Session 4, Utility Case Studies – 2 and Vendor Presentations	
14:45 – 15:15	Is CIM suitable to support TSO-DSO information exchange requirements? (return of experience of H2020 TDX-ASSIST project)	<i>Gareth Taylor ((Brunel University London)</i>
15:15 – 15:45	RiseClipse	<i>Dominique Marcadet (Centrale Supelec)</i>
15:45 – 16:45	Vendor Presentations (Equal time allocated to vendor sponsors) <ol style="list-style-type: none"> 1. Siemens – Using CIM to break down data silos and simplify data exchange within utilities 2. SISCO – Using CIM for data and tag management 3. PCItek 4. GDB 5. Xtensible 	<ol style="list-style-type: none"> 1. <i>Martin Mangold</i> 2. <i>Ralph Mackiewicz</i> 3. <i>Margaret Goodrich</i> 4. <i>Matija Gruden</i> 5. <i>Michael Covarrubias</i>
17:00 – 19:00	Evening Reception Hospitality & Vendor Demonstrations	

CIM Plenary Session
Thursday, 20 June 2019

DAY 2

Time	Topic	Presenter
8:30 – 9:00	Registration and Coffee/Tea	
	Session 5, Grid Data Modeling Case Studies	
9:00 – 9:30	GridAPPS- D	<i>Dr. Ron Melton & Eric Stephan (PNNL)</i>
9:30 – 10:00	Developing a Grid Model Data Management Architecture for Distribution	<i>Pat Brown (EPRI) & Paul Hayes (ESB)</i>
10:00 – 10:30	N7 grid simulation using smart meter data	<i>Derrick Oswald (9code GmbH)</i>
10:30 – 10:45	BREAK	
	Session 6, Scandinavian Case Studies	
10:45 – 11:15	Autofos project: Using CDPSM:ED2 in data collection from network and asset operators to TSO	<i>Magnus Tennoe(StatNett SF)</i>
11:15 – 11:45	Experiences from implementing CIM in a common solution for 15 Danish DSO's	<i>Thomas Franck (Visue A/S) & Jesper Ladegaard (DAX ApS)</i>
12:00 – 13:00	LUNCH	
	Session 7, Case Studies, Panels and Adjournment	
13:00 – 13:30	ENTSO -E CIM Roadmap	<i>Olivier Aine (ENTSO-E)</i>
13:30 – 14:00	Using the CIM for energy data sharing to enhance interoperability in Europe	<i>Jeff Montagne (ENEDIS)</i>
14:00 – 14:30	Implementing European network codes using IEC CIM	<i>Sander Jansen (Alliander)</i>
14:30 – 14:45	BREAK	
14:45 - 15:45	What's New in the Latest CIM UML Model Release (Model Managers Report)	<i>Margaret Goodrich (PCIttek)</i>
15:45 – 16:15	Ask the Experts: Panel Session	<i>Moderator: Ralph Mackiewicz (SISCO)</i>
16:15 – 16:30	Closing Comments & Two \$100 Amazon Gift Card Drawing (must be present to win)	<i>David Bogen (ONCOR) Margaret Goodrich (PCIttek)</i>
16:30	Adjourn	