

CIM Model Management

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CIM Model Management

Topics

- o Background
- o Responsibilities of CIM Model Manager
- o CIM Issues Process
- o CIM Issues for 2009

Background

- o Prior to the formation of the CIM Users Group in 2005, the CIM UML model was passed between volunteers from WG 13 and 14 to make necessary changes

- o To assist with the establishment of the CIM Users Group, Siemens, ABB, and Areva agreed to fund the position of CIM Model Manager for the first three years.
 - 2006 - Kurt Hunter, Siemens
 - 2007 – Lars-Ola Osterlund, ABB
 - 2008 – Kendall Demaree, Areva

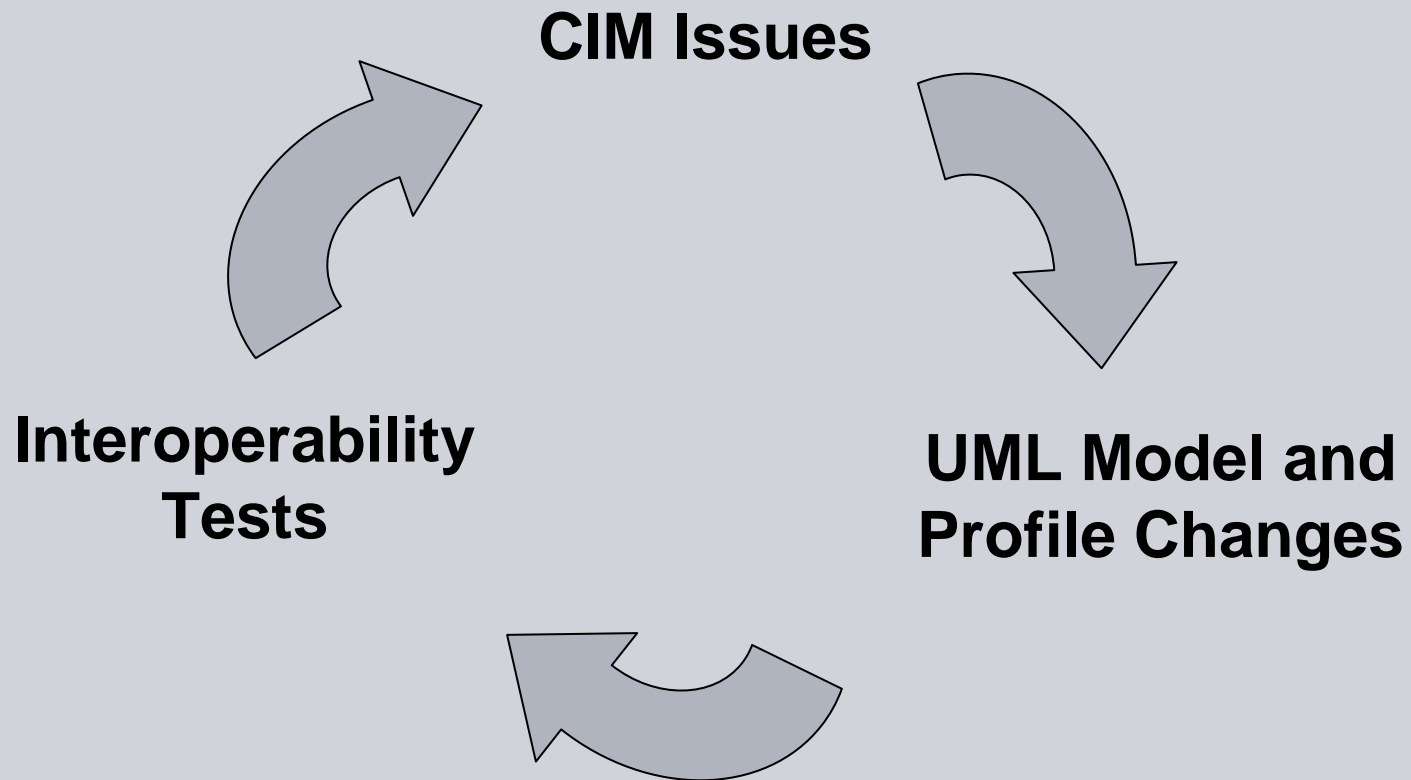
- o For 2009, Siemens agreed to fund the position again.

Responsibilities of CIM Model Manager

- o Manage and maintain the integrated CIM UML model
- o Coordinate model changes with WG 14 and WG 16
- o Manage the CIM issues list
- o Facilitate WG 13 Issues discussions
- o Produce the IEC 61970-301 document
- o Assist CIM UG in answering questions from users
- o Report to WG 19 and other IEC working groups

CIM Model Management

CIM Issues Process



CIM Issues Process consists of three primary components:

- o Issues Submission
- o Issues Resolution
- o Issues Tracking

CIM Issues Submission

- o In the past issues have been written second hand from information in emails, discussions at Interop Tests, etc.
- o Consequently, issues that could not be resolved quickly are frequently difficult to interpret when coming back to them.
- o Currently requiring issues to be written by the submitter, preferably using the CIM Users Group website.

CIM Model Management

CIM Issues Process - Submission

CIM Users Group Website:
<http://www.cimug.org>

Activities

- Meetings
- Projects
- Groups
- Announcements
- Calendar

Library

- Current CIM Model
- Interop Documents
- Draft IECTC 57 Documents
- Past Releases
- Model Issues
- Useful Links

Home | **Projects** ▾ | **Groups** ▾ | **Meetings** ▾ | **Blogs** ▾ | **CIM Documents** ▾ | **Other UCA Sites** ▾ | **Join UCAIug**

Welcome to the CIM Users Group!

The **CIM Users Group** is dedicated to the promotion of the portability of existing applications and the development of new applications through the use of such standards as the common information model (CIM) specification.

Unlike a protocol standard, the common information model (CIM) is an abstract model of labels (data names) and applied meanings of data definitions, database design, and message schemas. The CIM also includes a set of services for exchanging data called the CIM services. Because of its abstract nature, the CIM may be implemented in many ways. Some users may want to limit its scope to a specific project; others may want to limit its scope. The abstract nature of the CIM leads to flexibility in its implementation. It is important to remember that the CIM does not have to be implemented in its entirety.

The **CIM Users Group** is under the administrative umbrella of the **UCA International**. The UCAIug as well as its member groups (CIMug, OpenAMI, and IEC61850) draws its members from the power industry. The mission of the CIMug is to manage and to communicate issues concerning the CIM model and to develop the CIM model consensus and consistency across the industry.

CIM Model Management

CIM Issues Process - Submission

Model Issues Summary

CIMug

Home Projects Groups Meetings Blogs CIM Documents Other UCA Sites Join UCAIug

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About

- Ask for Help
- Support FAQs
- Learn about UCA/CIM
- Become a Member

CIMug > Model Issues

Model Issues

Online repository of CIM technical issues, with oversight of the CIM Model Manager.

CIM User Group members can enter modeling issues here. Click New to insert a new issue. Enter the required Title and Description. The Created automatically be filled in. Enter a priority and category which will indicate the part of the model or the subject of the issue.

To receive updates, you can create a general Alert for the entire list (see the drop-down Actions menu in the list header), or create specific Alert drop-down menu associated with each item Title). [Click here to view My Alerts](#) and review your settings (for the CIMug parent site only, not sub **Issues** list).

Suggestions for improving this page should be submitted through the [Help Desk](#).

New Actions

Issue ID	Title	Issue Status	Date Created	Created By	Category	Description
12	TransformerCoolingType	Closed	1/12/2009	randy.rhodes	61970	In IEC-61970-301 the enumeration TransformerCoolingType and the attribute PowerTransformer.transfCoolingType need to have documentation added, and er added. Otherwise both should be removed.
13	TieFlow direction	Active	2/19/2009	kendall.demaree	61970	The new class TieFlow does not clearly state that it is part of a control area in its does it clearly specify the direction of the positive flow. The flow direction on Sv be clarified in similar manner. The direction can be described as as "from the con ConnectivityNode or TopologicalNode)into the Terminal and conducting equipemer text simply says "into the terminal" which could be confusing if thinking of the term device internally.
14	SvPowerFlow flow direction.	Active	2/19/2009	kendall.demaree	61970	Clarify the description of flow as positive into the terminal from the connection poi ConnectivityNode or TopologicalNode. Similarly the one could say the flow is "loa conducting equipment.

CIM Model Management

CIM Issues Process - Submission

Submitting a New Issue

CIMug > Model Issues

Model Issues

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Suggestions for improving this page should be submitted through the [Help Desk](#).

New		Actions								View: All Issues
Issue ID	Title	Issue Status	Date Created	Created By	Category	Description	Comments	Priority		
12	TransformerCoolingType	Closed	1/12/2009	randy.rhodes	61970	In IEC-61970-301 the enumeration TransformerCoolingType and the attribute PowerTransformer.transfCoolingType need to have documentation added, and enumerated values need to be added. Otherwise both should be removed.	View Entries...	(2) Normal		
13	TieFlow direction	Active	2/19/2009	kendall.demaree	61970	The new class TieFlow does not clearly state that it is part of a control area in its class documentation. Nore does it clearly specify the direction of the positive flow. The flow direction on SvPowerFlow class should also be clarified in similar manner. The direction can be described as "from the connection point (either ConnectivityNode or TopologicalNode) into the Terminal and conducting equipement". I think the previous text simply says "into the terminal" which could be confusing if thinking of the terminal connecting into the device internally.	View Entries...	(2) Normal		
14	SvPowerFlow flow direction.	Active	2/19/2009	kendall.demaree	61970	Clarify the description of flow as positive into the terminal from the connection point, which is either a ConnectivityNode or TopologicalNode. Similarly the one could say the flow is "load convention" or into the conducting equipment.	View Entries...	(2) Normal		
15		Active	3/5/2009	kendall.demaree	61970	Suggest improvement to documentation of LoadResponseCharacteristic.pVoltageExpoent on its intended usage and mathematical equation.	View Entries...	(2) Normal		

CIM Model Management

CIM Issues Process - Submission

New Issue Submission Form

CIMug > Model Issues > New Item

Model Issues: New Item

OK Cancel

Attach File * indicates a required field

Title *

Description *
Description of the issue. Possibly containing recommended changes.

Issue Status * Active

Category * combined Specify your own value:

The part of the model impacted.

Priority * (2) Normal

Assigned To

Due Date 12 AM 00

Comments

Related Issues

12 - TransformerCool	Add > < Remove
13 - TieFlow direction	
14 - SvPowerFlow flo	
15 - Documentation of	

Date Created * 3/7/2009
The date on which this resource was created

Tips for CIM Issues Submission

- o Be as specific and detailed as possible.
- o If possible, include a detailed proposed resolution to the issue. A UML model or UML class diagram can be submitted with the issue as an attachment.
- o For proposed model extensions include a detailed use case.
- o Review the CIM issues spreadsheet before submitting to determine if the issue has been submitted previously.

CIM Model Management

CIM Issues Process - Submission

Current CIM Model Files

- o Available as a .zip file on CIM Users Group site that includes five files:
 - UML model
(iec61970cim14v05_iec61968cim10v21_combined.eap)
 - CIM Issues list
(CIM_issues_20090316.xls)
 - CIM Changes log
(CIM_changes_20090316.xls)
 - WG 13 Issues Report
(WG13_CIM_Issues_Report_2009-03-16.doc)
 - WG 14 Change Log
(WG14-change-log.txt)

CIM Model Management

CIM Issues Process - Submission



CIM Issues Spreadsheet includes fields for:

- o Working Group (WG 13, WG 14, WG 16 or combined)
- o Issue No. (Unique # assigned by CMM)
- o Author / Contact Information
- o Date Submitted
- o Package (Wires, Core, Assets, etc.)
- o Description of Issue
- o Proposed Resolution
- o Decision
- o Person Assigned
- o Due Date Status

CIM Issues Resolution

- o Simple issues may be resolved by the CMM and then sent to WG 13 members for approval.
- o More complex issues will be discussed during WG 13 and WG 14 CIM issues conference calls. Resolution of an issue may be reached during calls or may be deferred to the next WG 13 or WG 14 meeting.
- o Complex or controversial issues will be discussed face to face at WG 13 and WG 14 meetings.
- o All WG 13 CIM changes are tracked in a spreadsheet.

CIM Model Management

CIM Issues Process - Resolution

CIM Changes Spreadsheet includes fields for:

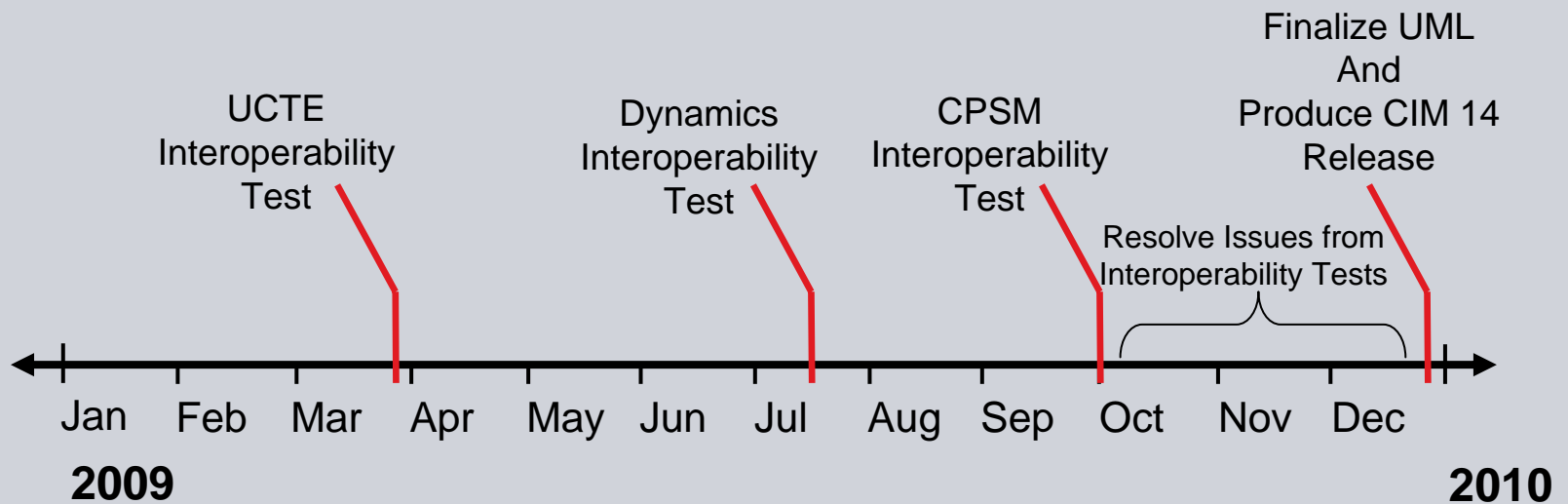
- o Change Number (assigned by CMM)
- o Action (New, Change, Delete)
- o Package (Wires, Core, etc.)
- o Subject (Affected class, attribute, or association)
- o Subject Type (Class, Attribute, or Association)
- o Description
- o Issue Reference Number (from CIM Issues List)
- o New CIM Revision
- o Author
- o Date of Change
- o Comments

CIM Model Management

CIM Issues for 2009



CIM 2009 Yearly Cycle



CIM Issues for 2009

- o Compound Datatypes
- o DC Models
- o State Variable
- o EPRI CIM-for-Planning Dynamics Models
- o Display Layout Exchange
- o Equivalent Enhancements
- o Load Model Clean-up WG13/14
- o WG16 Integration
- o Multiple Inheritance

Questions?

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