

## WG13 Issues - CIM Issues #3950

### Duplicate Analogs

#### In IOP 10 some models had multiple cim:An

09/14/2021 03:43 PM - Herbert Falk

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Target version:</b>	
<b>Author/Contact Info:</b> IOP10 by lars-ola.g.osterlund@se.abb.com	<b>Standard(s):</b>
<b>Base Release:</b>	<b>Version:</b>
<b>Solution to be Applied To:</b>	<b>Clause:</b>
<b>Solution Version:</b> CIM15	<b>Sub-Clause:</b>
<b>Solution Applied By:</b> LOO	<b>Paragraph:</b>
<b>Completion Date:</b> 12/08/2010	<b>Table:</b>
<b>CIM Keywords:</b>	<b>Originally Closed in Version:</b> CIM15
<b>Breaking Change:</b> No	<b>Origination Date:</b> 09/27/2007
<b>Breaking Change Description:</b>	<b>Origination ID:</b> 399
<b>CIM Impacted Groups:</b> WG13	<b>Originally Assigned To:</b>
<b>Requestor:</b>	
<b>Description</b> Duplicate Analogs In IOP 10 some models had multiple cim:Analog of the same cim:MeasurementType attached to equipment, e.g. multiple voltage cim:Analog at the same cim:BusbarSection. The meaning of this is not defined and shall be regarded as an error. The intent of the provider of the cimxml file was to describe different sources of values, e.g. SCADA, State Estimation etc. The construct to use for this in the CIM is cim:AnalogValue and cim:MeasurementValueSource.	
<b>Proposed Solution</b> The UML shall be updated to restrict the usage of cim:Analog. A way to do this is to add specific associations for the usages from equipment to cim:Analog by specifying the following roles at the cim:Analog side - Voltage - ActivePower - ReactivePower - ApparentPower - Current If this technique is used everywhere the class cim:MeasurementType can be removed as the type information now is carried by this new association. The old association MemberOf_PSR is kept but made navigable in one direction only (MemberOf_PSR) as the other direction now is covered by the new roles given above.	
<b>Decision</b> 2010-12-07/LOO This isn't a problem in current usage of CIM. The proposed solution adds more problems than it solves.	