

## WG13 Issues - Issues

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
6802	High	Identity class	06/05/2024	CIM18v11	Yes	Due to change of the inheritance structure
<b>Release Notes</b> The following changes are applied: new class Identity class with description: "This is a root class to provide common identification for all classes." attribute Identity.identifier with description: "A universally unique object identifier. Used to uniquely identify persistent objects between CIM messages." UUID class with description: "A UUID as defined by IEC/ISO 9348-8" IdentifiedObject must be updated as its description currently states it is a "root class". This is no longer the case. The new description is: "This is a class that provides common identification for all classes needing identification and naming attributes." IdentifiedObject inherits from Identity						
6786	Normal	Add clarification that BaseVoltage.nominalVoltage is line-to-line	06/05/2024	CIM18v11	No	
<b>Release Notes</b> - the description of BaseVoltage class was changed to "Defines a system base voltage which is referenced. This may be different than the rated voltage." - the description to BaseVoltage.nominalVoltage was changed to "The power system resource's base voltage, expressed on a phase-to-phase (line-to-line) basis. Shall be a positive value and not zero."						
6785	Normal	Modelling of Ward and Extended Ward Equivalent by EquivalentInjection	06/04/2024	CIM18v11	Yes	Attributes are moved
<b>Release Notes</b> The following classes were added WardEquivalent ExtendedWardEquivalent The ExtendedWardEquivalent has r, x, and the regulating status and voltage attributes all required attributes in the profile. The attributes are moved from EquivalentInjection. ExtendedWardEquivalent gets r0, r2, x0, x2 as part of the SC profiles EquivalentInjection is abstract in the profile The association with ReactiveCapabilityCurve is moved to ExtendedWardEquivalent Attribute regulationCapability is deleted as ExtendedWardEquivalent always has the capability to regulate. The regulationStatus is kept for SSH usage to have the ability to deactivate the voltage control although this is also questionable as this will turn the Extended ward to a ward.  Changes are applied in EQ, SC and SSH profiles.						
6452	Normal	Allow multiple RatioTapChanger on one TransformerEnd	06/04/2024	CIM18v11	Yes	May need product adjustment to handle multiple tap changers on the same winding in simulations like power flow, state estimation...
<b>Release Notes</b> Applied changes in canonical CIM - added class StepOperationalLimitTable - added class StepLimitTablePoint with attributes step and factor - the association end RatioTapChanger.TransformerEnd is changed from 1 to 0..1 - new association is added between RatioTapChanger and TransformerEnd - added class ConnectionAngleTapChangerTable with attribute ConnectionAngleTapChangerTable.windingConnectionAngle - added class ConnectionAngleTapChanger - added ConnectionAngleTapChanger.minWindingConnectionAngle, maxWindingConnectionAngle, connectionAngleStepSize, windingConnectionAngle, normalWindingConnectionAngle						

- added class ImpedanceTapChangerTabular
- added class ImpedanceTapChangerTable
- added class ImpedanceTapChangerTablePoint with the following attributes: xEnd1, xEnd2, xEnd3, rEnd1, rEnd2, rEnd3, step, ratio, angle.
- the text "Note that the upper boundary is not constrained to 100 percent." is added to TapChangerTablePoint.b, .g, .r, .x

Changes are also applied to EQ (452) and SSH profiles (456)

6451	Normal	Cardinality inconsistency for PowerElectronicsConnection<->PowerElectronicsUnit between canonical model and profile	06/04/2024	CIM18v11		
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**Release Notes**

- In the 301 for the UML changed the cardinality from 1..1 to 0..1 on the **PowerElectronicsConnection** role end.
- In the 452 EQ profile changed the direction of the association
- In the 452 EQ profile changed the cardinality on the **PowerElectronicsUnit** role end to 0..\*