WG13 Issues - CIM18 Release Notes (Aggregate Report)

#	Priority	Subject	Completion Date			Breaking Change Description
5107	Normal	New Names proposal - inverted associations	10/19/2021	CIM18v01	No	

Release Notes

After applying the new Names proposal to the CIM18v00 release it was discovered that two associations had their source and target specifications (and descriptions) reversed. This has been corrected in the CIM18v01 release.

5067	High	Remove out of date Dataset and Profile UML	09/28/2021	CIM18v01	No	

Release Notes

The following association and attribute updates were applied to the **Dataset** related classes within the **GenericDataseSet** package:

- Removed the Dataset-Profile role
- Removed the Profile class from the diagram.
- Removed the **Dataset.name** and **Dataset.description** attributes.
- A new **Part303** package was introduced under the top level **IEC61970** package and is a peer package to **Base**. Subsequently the **GenericDataSet** package was moved to this new location. This reorg is beneficial to better represent the future IEC61970-303 publication as separate and distinct from Base (i.e. IEC61970-301)

506	66	Normal	Address issues with the Names classes construct introduced as of CIM15	08/06/2021	CIM18v00	Yes	NameTypeAuthority
							class was removed
							and association role
							ends renamed.

Release Notes

The following changes were applied to CIM18 to address insufficiency in the existing Names construct in the 61970 package:

- Add a new association i.e. Name (0..n) --> IdentifiedObject (0..1) to handle alternative identifiers distinct and different from alternate names (i.e using the existing association).
- Added a new class **ObjectType** to the Core package
 - 1. Added attribute type to the ObjectType class
 - 2. Added a new association ObjectType (0..1) --> IdentifiedObject (0..n)
- Added a new class NamingAuthority to replace NameTypeAuthority which was also deleted (a breaking change).
 - 1. Add description, mRID, and name attributes to this new class
 - 2. Added a new association NameType (0..n) --> NamingAuthority (0..1)
 - 3. Added a new association Name (0..n) --> NamingAuthority (0..1)
- Added the following attributes to existing classes:
 - 1. Added language and mRID attributes to the existing Name class
 - 2. Added **mRID** attribute to the **NameType** class
- Added a new association between the existing **Name** and **IdentifiedObject** classes with the following role end names and cardinality:
 - 1. Alternativeldentifier (0..n) --> UniqueldentifiedObject (0..1)
- Renamed the role end name for the existing Name --> IdentifiedObject associations. Changed it from it's plural form (i.e. Names) to its singular form. This to conform with formal CIM modeling guidelines

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#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
5065	Normal	The CIM definition for the Analog.positiveFlowIn attribute should be aligned with the more semantically pure definition being proposed for IEC 61850	06/30/2021	CIM18v00	No	
Release	Notes					
		r the Analog.positiveFlowIn attribute should be aligned with the more semantically pure definition mendations (Recommendation R16).	n being proposed fo	r IEC 61850. This re	equest was pa	art of IEC 61850
5064	Normal	Update the description on the PhaseCode and SinglePhaseCode classes to better clarify balanced and unbalanced usages.	06/30/2021	CIM18v00	No	
Release	Notes		•	•	•	·
part of IE	C 61850 ha	haseCode and SinglePhaseKind enumerations were updated as rmonization recommendations (Recommendation R10). This to a for balanced and unbalanced models.				
5061	Normal	Address issues and clarity around the Control.controlType description	08/24/2020	CIM18v00	No	
Release	Notes		•		•	•
The desc	cription of Co	ontrol.controlType was:				
"Specifie	s the type of	Control, e.g. BreakerOn/Off, GeneratorVoltageSetPoint, TieLineFlow etc. The ControlType.name	shall be unique am	nong all specified typ	es and descr	be the type."
·			shall be unique an	nong all specified typ	es and descr	be the type."
	s the type of		e shall be unique an	nong all specified typ	es and descr	be the type."
This has	now been c	nanged to:	·			
This has	now been c	nanged to: Control. For example, this specifies if the Control represents BreakerOpen, BreakerClose, Gener	atorVoltageSetPoin	t, GeneratorRaise, G	eneratorLow	er, etc.".
This has 'Specifie This was	now been c	nanged to: Control. For example, this specifies if the Control represents BreakerOpen, BreakerClose, Gener o align the description with the approach as expressed in Measurement.measurementType as we	atorVoltageSetPoin	t, GeneratorRaise, G	ieneratorLow	er, etc.".
This has "Specifie This was 5059	now been c s the type of performed t	nanged to: Control. For example, this specifies if the Control represents BreakerOpen, BreakerClose, Gener	atorVoltageSetPoin	t, GeneratorRaise, G	eneratorLow	er, etc.".
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This has Specifie This was 5059 Release The desc	now been constant the type of performed to Normal Notes Cription of Tele Normal	Control. For example, this specifies if the Control represents BreakerOpen, BreakerClose, Gener o align the description with the approach as expressed in Measurement.measurementType as we The description of Terminal.phases refers to GroundSwitch, rminal.phases refers to GroundSwitch which is not a class in the CIM. This reference has been	atorVoltageSetPoin cannot have Contro 08/24/2020 removed.	t, GeneratorRaise, G DIType.name as mer CIM18v00	tioned in the	er, etc.".
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It was discovered in the published release of IEC 61970-301 Ed. 7.0 that the **TapChangerControl** class had an issue in the cardinality of the **RegulatingControl.RegulatingCondEq** association 2/3

exposed the Reg to IEC 6	l an issue with ulatingCond	atingControl . The cardinality on the association was changed from "0n" to "1n" sometime aften this. The "1n" cardinality imposes a requirement that an instance of a TapChangerControl of Eq.RegulatingControl association. This requirement could not be fulfilled for TapChangerCont 7.0. Consequently, the "reverting" of this cardinality back to "0n" needed to occur in both CIM change.	nust reference at leas rols and thus had to	t one instance of a l be rolled back resu	RegulatingCon	dEq class type via d for an amendment
5053	Normal	Add explanatory text to show the differences between BusbarSection and Junction	06/30/2021	CIM18v00	No	
Release	Notes			•	-	
the two o	classes are e be appropriat	rmonization recommendation (Recommendation R4) the CIM classes BusbarSection and Juno quivalent. In addition, ConnectivityNodes can be defined with or without associations to instarte for ConnectivityNodes to be associated with BusbarSections , Junctions or neither. This 5.4 in the standard has also been updated to better clarify.	ces of these classes	. IEC 61970-301 do	es not give clea	ar guidance on when
5052	Normal	Typographical errors needing correction in CIM18	06/16/2020	CIM18v00	No	
Release	Notes					
Minor ty	pographical u	pdates to descriptions of OperatingParticipant , IdentifiedObject.aliasName , CurveData.xva	lue , BaseVoltage ,	and BasicIntervalS	chedule .	
5051	Normal	The description on the WaveTrap class is incorrect.	06/15/2020	CIM18v00	No	
Release	Notes					
The des	cription on the	e WaveTrap class was incorrect. The description states:				
"Line tra	ps are device	es that impede high frequency power line carrier signals yet present a negligible impedance at the	e main power frequer	ncy."		
"Line tra	ps" was repla	ced with "Wave Traps"				
5050	Normal	Description updates needed for the association between TopologicalNode and BusNameMarker.	06/15/2020	CIM18v00	No	
Release	Notes			•	•	
Correcte to read:	ed minor typos	s and wording issues discovered in the BusNameMarker role end description for the association	n between Topologi o	calNode and BusN	ameMarker . l	Jpdated the role end
	•	ogical node that was originally defined in a planning model not yet having topology described by TopologicalNodes using BusNameMarkers."	ConnectivityNodes. (Once ConnectivityNo	odes have been	created they may be

5046	Normal	Remove deprecated attributes from ShuntCompensator and Switch classes	08/06/2021	CIM18v00	Yes	Existing attributes
						that were declared
						deprecated in CIM17
						have been removed

Release Notes

The attributes **switchOnCount** and **switchOnDate** on the **ShuntCompensator** and **Switch** classes were flagged as deprecated in CIM17 and were removed now from CIM18. It was confirmed that these attributes are not in use in the IEC 61970-45x series standards nor in the IEC 61968 Part 3-9 series of standards.

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