WG13 Issues - Issues

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
5066	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 associatoin).

- 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. **AlternativeIdentifier (0..n) --> UniqueIdentifiedObject (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

#	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

The CIM definition for the **Analog.positiveFlowIn** attribute should be aligned with the more semantically pure definition being proposed for IEC 61850. This request was part of IEC 61850 harmonization recommendations (Recommendation R16).

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
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

The descriptions of **PhaseCode** and **SinglePhaseKind** enumerations were updated as
part of IEC 61850 harmonization recommendations (Recommendation R10). This to
better clarify their use for balanced and unbalanced models.

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
5061	Normal	Address issues and clarity around the Control.controlType description	08/24/2020	CIM18v00	No	

Release Notes						
The description of **Control.controlType** was: "Specifies the type of Control, e.g. BreakerOn/Off, GeneratorVoltageSetPoint, TieLineFlow etc. The ControlType.name shall be unique among all specified types and describe the type." This has now been changed to: "Specifies the type of Control. For example, this specifies if the Control represents BreakerOpen, BreakerClose, GeneratorVoltageSetPoint, GeneratorRaise, GeneratorLower, etc.". This was performed to align the description with the approach as expressed in Measurement.measurementType as we cannot have ControlType.name as mentioned in the original.						
5059	Normal	The description of Terminal.phases refers to GroundSwitch,	08/24/2020	CIM18v00	No	
Release Notes						
The description of **Terminal.phases** refers to GroundSwitch which is not a class in the CIM. This reference has been removed.						
5057	Normal	The description for ShuntCompensator has an error that must be corrected.	07/01/2020	CIM18v00	No	
Release Notes						
Addressed an error in the description of **ShuntCompensator** . Changed the sentence: "A negative value for ReactivePerSection indicates that the compensator is a reactor." to: "A negative value for bPerSection indicates that the compensator is a reactor."						
5055	High	The TapChangerControl class has a cardinality issue with the RegulatingControl.RegulatingCondEq association.	06/30/2020	CIM18v00	No	
Release Notes						
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 inherited from **RegulatingControl** . The cardinality on the association was changed from "0..n" to "1..n" sometime after CIM17v34. A country comment during CDV of IEC 61970-452 (for CIM17) exposed an issue with this. The "1..n" cardinality imposes a requirement that an instance of a **TapChangerControl** must reference at least one instance of a **RegulatingCondEq** class type via the **RegulatingCondEq.RegulatingControl** association. This requirement could not be fulfilled for **TapChangerControls** and thus had to be rolled back resulting in the need for an amendment to IEC 61970-301 Ed. 7.0. Consequently, the "reverting" of this cardinality back to "0..n" needed to occur in both CIM17 for the amendment and in CIM18 under development. This issue (i.e. 5055) is to track this change.						
5053	Normal	Add explanatory text to show the differences between BusbarSection and Junction	06/30/2021	CIM18v00	No	
Release Notes						
Per an IEC 61850 harmonization recommendation (Recommendation R4) the CIM classes **BusbarSection** and **Junction** descriptions were updated. From a topology processing point of view the two classes are equivalent. In addition, **ConnectivityNodes** can be defined with or without associations to instances of these classes. IEC 61970-301 does not give clear guidance on when it would be appropriate for **ConnectivityNodes** to be associated with **BusbarSections** , **Junctions** or neither. This makes it difficult to define rules for automatic conversion from IEC 61850 SCL files. Section 4.5.4 in the standard has also been updated to better clarify.						
5052	Normal	Typographical errors needing correction in CIM18	06/16/2020	CIM18v00	No	
Release Notes						
Minor typographical updates to descriptions of **OperatingParticipant** , **IdentifiedObject.aliasName** , **CurveData.xvalue** , **BaseVoltage** , and **BasicIntervalSchedule** .						

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
5051	Normal	The description on the WaveTrap class is incorrect.	06/15/2020	CIM18v00	No	

Release Notes

The description on the **WaveTrap** class was incorrect. The description states:

"Line traps are devices that impede high frequency power line carrier signals yet present a negligible impedance at the main power frequency."

"Line traps" was replaced with "Wave Traps"

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
5050	Normal	Description updates needed for the association between TopologicalNode and BusNameMarker.	06/15/2020	CIM18v00	No	

Release Notes

Corrected minor typos and wording issues discovered in the **BusNameMarker** role end description for the association between **TopologicalNode** and **BusNameMarker** . Updated the role end to read:

"A user defined topological node that was originally defined in a planning model not yet having topology described by ConnectivityNodes. Once ConnectivityNodes have been created they may be linked to user defined TopologicalNodes using BusNameMarkers."

#	Priority	Subject	Completion Date	Solution Version	Breaking Change	Breaking Change Description
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.