

WG13 Issues - CIM Issues #6274

Remove ACDCTerminal.connected

02/27/2023 02:01 AM - Chavdar Ivanov

Status:	Closed	
Priority:	Normal	
Target version:		
Author/Contact Info:	Chavdar Ivanov	Standard(s): 61970-301, 61970-456
Base Release:	CIM17	Version:
Solution to be Applied To:	CIM18v04	Clause:
Solution Version:	CIM18v04	Sub-Clause:
Solution Applied By:	Chavdar Ivanov	Paragraph:
Completion Date:	03/21/2023	Table:
CIM Keywords:		Originally Closed in Version:
Breaking Change:	Yes	Origination Date:
Breaking Change Description:	Removal of attribute. Considerations will need to be some when modelling open ended branches.	Origination ID:
CIM Impacted Groups:	WG13	Originally Assigned To:
Requestor:		
Description <p>In CIM17 and CIM18 we have clean up the modelling styles and we are forcing models to have ConnectivityNodes ACDCTerminal.connected in SSH creates a lot of confusion and it requires consistency checks. We have Equipment.inService, we can also go in the direction of using switches. The only case where we could need this is if there are no switches and somebody wants to model open ended branch for multi terminal devices. My recommendation is to recommend modelling a switching device instead of using the .connected attribute.</p>		
Proposed Solution <p>The following changes should be applied:</p> <ul style="list-style-type: none">- Remove ACDCTerminal.connected from SSH.- deprecate ACDCTerminal.connected in 61970-301.- add the following text in 301 under a new section 4.6.18 Modelling of open ended branch <p>This document deprecates the attribute ACDCTerminal.connected as additional attributes were added and modelling concepts aligned. ConductingEquipment-s can be put in service using the attribute Equipment.inService that specifies the availability of the equipment for topology processing, which determines if the equipment is energized or not. Usage of switching equipment is the preferred approach. In order to cover use cases where modelling of open ended branch for pure bus branch models, it is recommended that export at least one of the switches of the branch so that fault studies or other studies can perform the necessary simulations. Some studies may require modelling a fault in detail and this may require using Cut and Jumper classes to for instance to a model the detail location of the Cut.</p> <p>- in 456 delete the following statement and refer to the section 4.6.18 in 301 "Opening of an ACLineSegment end can be made by using the ACDCTerminal.connected flag. In this case a TopologicalNode at the open ACLineSegment end is needed. This is made to describe a fault case."</p>		
Decision <p>The proposed solution was agreed in the call on 15 March 2023.</p>		
Release Notes <p>The following changes were applied:</p> <ul style="list-style-type: none">- Remove ACDCTerminal.connected from SSH profile. The following classes were deleted: ACDCTerminal, DCBaseTerminal, Terminal, DCTerminal, ACDCCConverterDCTerminal- deprecate ACDCTerminal.connected in 61970-301.- add the following text in 301 under a new section 4.6.18 Modelling of open ended branch		

This document deprecates the attribute `ACDCTerminal.connected` as additional attributes were added and modelling concepts aligned. `ConductingEquipment-s` can be put in service using the attribute `Equipment.inService` that specifies the availability of the equipment for topology processing, which determines if the equipment is energized or not. Usage of switching equipment is the preferred approach. In order to cover use cases where modelling of open ended branch for pure bus branch models, it is recommended that export at least one of the switches of the branch so that fault studies or other studies can perform the necessary simulations. Some studies may require modelling a fault in detail and this may require using `Cut` and `Jumper` classes to for instance to a model the detail location of the `Cut`.

- in 456 delete the following statement and refer to the section 4.6.18 in 301

"Opening of an `ACLineSegment` end can be made by using the `ACDCTerminal.connected` flag. In this case a `TopologicalNode` at the open `ACLineSegment` end is needed. This is made to describe a fault case."

History

#1 - 02/27/2023 02:07 AM - Chavdar Ivanov

- Status changed from *New* to *Open*
- Proposed Solution updated

#2 - 02/27/2023 02:08 AM - Chavdar Ivanov

- Proposed Solution updated

#3 - 02/27/2023 02:49 AM - Chavdar Ivanov

- Proposed Solution updated

#4 - 02/27/2023 02:51 AM - Chavdar Ivanov

- Proposed Solution updated

#5 - 02/27/2023 03:01 AM - Chavdar Ivanov

- Proposed Solution updated

#6 - 03/21/2023 05:24 PM - Chavdar Ivanov

- Solution Applied By set to *Chavdar Ivanov*
- Completion Date set to *03/21/2023*
- Decision updated
- Release Notes updated

#7 - 03/21/2023 05:25 PM - Chavdar Ivanov

- Status changed from *Open* to *In Progress*

#8 - 03/21/2023 05:25 PM - Chavdar Ivanov

- Status changed from *In Progress* to *Closed*

#9 - 10/20/2023 10:13 AM - Todd Viegut

- Solution to be Applied To changed from *CIM18* to *CIM18v04*