WG13 Issues - CIM Issues #5298

5295:5298 61970 PhaseImpedanceData cleanup for ACLineSegment physical modeling

01/30/2022 03:15 AM - Pat Brown

Status:	Closed		
Priority:	Normal		
Target version:			
Author/Contact Info:	Pat Brown	**Standard(s):**	61970-301, 61968-13
Base Release:	iec61970cim18v01_iec61968cim14v00_iec62325cim04v08_CIM101.0	**Version:**	
Solution to be Applied To:	CIM18v07	**Clause:**	
Solution Version:	CIM18v07	**Sub-Clause:**	
Solution Applied By:	Chavdar Ivanov	**Paragraph:**	
Completion Date:	10/08/2023	**Table:**	
CIM Keywords:	61968-AssetInfo, 61970-Wires	**Originally Closed in Version:**	
Breaking Change:	Yes	**Origination Date:**	
Breaking Change Description:	2 attributes deleted	**Origination ID:**	
CIM Impacted Groups:	WG13, WG14	**Originally Assigned To:**	
Requestor:			

Description

The ability to link phase to position is provided by the changes to 61968 classes described in Issue #5295- Joint issue on ACLineSegment physical modeling clarification. This obviates the need for the .fromPhase and .toPhase attributes of the PhaseImpedanceData class.

Proposed Solution

The following is proposed:

> PhaseImpedanceData – Delete the .fromPhase and .toPhase attributes as they are now redundant. Phase identification is supplied by either the ACLineSegmentPhase class or the WirePosition class and is referenced via the PhaseImpedanceData.row and .column attributes which map to either ACLineSegmentPhase.sequenceNumber or WirePosition.sequenceNumber.

Decision

20-Sep-2023: Decision is to apply these changes. The Joint Redmine issue that this WG13 issues is associated with was reviewed in full details in the Sept 6 and 13th meetings.

See attached 2020-01-30 Device Datasheet ACLineSegment requested UML updates.docx for details.

Release Notes

61970 changes

> Deleted attribute PhaseImpedanceData.fromPhase
> Deleted attribute PhaseImpedanceData.toPhase

Updated the descriptions of the following classes and attributes:
- ACLineSegment
- ACLineSegment.b0ch
- ACLineSegment.bch
- ACLineSegment.g0ch
- ACLineSegment.gch
- ACLineSegment.r

- ACLineSegment.r0
- ACLineSegment.x
- ACLineSegment.x0
- ACLineSegmentPhase
- ACLineSegmentPhase.phase
- ACLineSegmentPhase.sequenceNumber
- Conductor.length
- PerLengthImpedance
- PerLengthLineParameter
- PerLengthPhaseImpedance
- PerLengthPhaseImpedance.conductorCount
- PerLengthSequenceImpedance
- PhaseImpedanceData
- PhaseImpedanceData.b
- PhaseImpedanceData.column
- PhaseImpedanceData.g
- PhaseImpedanceData.r
- PhaseImpedanceData.row
- PhaseImpedanceData.x

Related issues:

Related to CIM Joint Issues - CIM Issues #5295: Joint issue on ACLineSegment ...	**New**

History

#1 - 01/30/2022 04:11 AM - Pat Brown

- *Standard(s) changed from 61970-301 to 61970-301, 61968-13*

#2 - 09/23/2022 10:42 AM - Chuck DuBose

- *Related to CIM Issues #5295: Joint issue on ACLineSegment physical modeling clarification added*

#3 - 09/20/2023 10:38 AM - Todd Viegut

- *Status changed from New to Open*

- *Solution to be Applied To set to CIM18v07*

- *Solution Version set to CIM18*

- *Solution Applied By deleted (Pat Brown)*

- *Decision updated*

#4 - 09/20/2023 10:54 AM - Todd Viegut

- *Status changed from Open to Review*

#5 - 09/27/2023 09:54 AM - Todd Viegut

- *Author/Contact Info set to Pat Brown*

- *Proposed Solution updated*

#6 - 10/02/2023 02:22 PM - Todd Viegut

- *Decision updated*

- *Release Notes updated*

#7 - 10/08/2023 03:07 AM - Chavdar Ivanov

- *Solution Version changed from CIM18 to CIM18v07*

- *Solution Applied By set to Chavdar Ivanov*

- *Completion Date set to 10/08/2023*

- *Release Notes updated*

#8 - 10/10/2023 11:02 AM - Chavdar Ivanov

- *Status changed from Review to Closed*

#9 - 10/20/2023 09:43 AM - Todd Viegut

- Solution to be Applied To changed from CIM18v07 to 18v07

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

- Solution to be Applied To changed from 18v07 to CIM18v07

Files

2022-01-30 Device Datasheet ACLineSegment requested UML updates.docx	2.46 MB	01/30/2022	Pat Brown