

WG13 Issues - CIM Issues #6451

Cardinality inconsistency for PowerElectronicsConnection<->PowerElectronicsUnit between canonical model and profile

06/28/2023 09:48 AM - Yang Feng

Status: In Progress	
Priority: Normal	
Target version:	
Author/Contact Info: Yang Feng	Standard(s): 61970-452
Base Release: CIM18	Version: CGMES3.0 UML
Solution to be Applied To: CIM18v11	Clause:
Solution Version:	Sub-Clause:
Solution Applied By:	Paragraph:
Completion Date:	Table:
CIM Keywords: 61970-Wires	Originally Closed in Version:
Breaking Change:	Origination Date: 06/28/2023
Breaking Change Description:	Origination ID:
CIM Impacted Groups: WG13	Originally Assigned To:
Requestor:	
Description The cardinality of PowerElectronicsConnection<->PowerElectronicsUnit is 1:0..* for the canonical model, while the cardinality is 1:0..1 at the profile level.	
Proposed Solution Solution is to: <ul style="list-style-type: none">- In the 301 for the UML change the cardinality from 1..1 to 0..1 on the PowerElectronicsConnection role end.- In the 452 EQ profile change the direction of the association- In the 452 EQ profile change the cardinality on the PowerElectronicsUnit role end to 0..*	
Decision Call 18 Oct 2023 it is not clear why we have the many side at the PowerElectronicsUnit. This does not match the pattern we have between GeneratingUnit and RotatingMachine. This will need follow up discussion. 14-Feb-2024 discussed further during the WG13 weekly call: <ul style="list-style-type: none">- In the 301 for the UML change the cardinality from 1..1 to 0..1 on the PowerElectronicsConnection role end.- In the 452 EQ profile change the direction of the association- In the 452 EQ profile change the cardinality on the PowerElectronicsUnit role end to 0..*	

History

#1 - 10/18/2023 11:04 AM - Chavdar Ivanov

- Status changed from New to Open

- Decision updated

#2 - 10/18/2023 11:04 AM - Chavdar Ivanov

- Status changed from Open to In Progress

#3 - 02/14/2024 10:58 AM - Todd Viegut

- Proposed Solution updated

- Decision updated

#4 - 02/14/2024 10:59 AM - Todd Viegut

- Decision updated

#5 - 02/14/2024 11:08 AM - Todd Viegut

- Base Release set to CIM18

- Solution to be Applied To set to CIM18v11

#6 - 02/14/2024 11:28 AM - Todd Viegut

- Proposed Solution updated

- Decision updated