

WG13 Issues - CIM Issues #7117

Relax cardinality requirement of VoltageCompensatorDynamics model for every instance of an ExcitationSystemDynamics model.

01/23/2025 01:58 PM - Becky Iverson

|  |                |                                      |
|--|----------------|--------------------------------------|
| <b>Status:</b>   | New            |                                      |
| <b>Priority:</b>   | Normal         |                                      |
| <b>Target version:</b>   |                |                                      |
| <b>Author/Contact Info:</b>  | Becky Iverson  | <b>Standard(s):</b> IEC61970-457     |
| <b>Base Release:</b>   | Grid18v15      | <b>Version:</b>                      |
| <b>Solution to be Applied To:</b>  |                | <b>Clause:</b>                       |
| <b>Solution Version:</b>   |                | <b>Sub-Clause:</b>                   |
| <b>Solution Applied By:</b>  |                | <b>Paragraph:</b>                    |
| <b>Completion Date:</b>  |                | <b>Table:</b>                        |
| <b>CIM Keywords:</b>   | 61970-Dynamics | <b>Originally Closed in Version:</b> |
| <b>Breaking Change:</b>  | No             | <b>Origination Date:</b>             |
| <b>Breaking Change Description:</b>  |                | <b>Origination ID:</b>               |
| <b>CIM Impacted Groups:</b>  | WG13           | <b>Originally Assigned To:</b>       |
| <b>Requestor:</b>  |                |                                      |
| <b>Description</b><br>Change the cardinality from 1..1 to 0..1 for the VoltageCompensatorDynamics association with the ExcitationSystemDynamics. Generator Dynamic models exist with Excitation models that do not require a VoltageCompensator model. All other types of models associated with the ExcitationSystemDynamics are optional with a cardinality of 0..1. VoltageCompensatorDynamics is the only class that has a required 1..1 cardinality.<br><br>In fact, even the Examples shown in the Dynamics package contradict this required association (each diagram shows an example of an Exciter dynamic model that does not have a Voltage Compensator model). |                |                                      |
| <b>Proposed Solution</b><br>Change the cardinality from 1..1 to 0..1 for the VoltageCompensatorDynamics association with the ExcitationSystemDynamics.   |                |                                      |

History

#1 - 01/23/2025 02:45 PM - Todd Viegut

- Author/Contact Info set to Becky Iverson
- Proposed Solution updated
- Breaking Change set to No
- Standard(s) set to IEC61970-457
- CIM Impacted Groups WG13 added
- CIM Impacted Groups deleted (None)

Files

|  |        |            |               |
|--|--------|------------|---------------|
| ExampleStandardModel.jpg                 | 133 KB | 01/23/2025 | Becky Iverson |
| ExampleFunctionBlockProprietaryModel.jpg | 159 KB | 01/23/2025 | Becky Iverson |