# WG13 Issues - CIM Issues #6459

## 302, 457 issue with "triple" association of WindPlantControlCommIEC.CommunicationIEC

07/01/2023 03:13 PM - Chavdar Ivanov

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| **Status:** | Closed | | |
| **Priority:** | Normal | | |
| **Target version:** | | | |
| **Author/Contact Info:** | Chavdar Ivanov | **Standard(s):** | |
| **Base Release:** | 18v03 | **Version:** | |
| **Solution to be Applied To:** | 18v05 | **Clause:** | |
| **Solution Version:** | CIM18v05 | **Sub-Clause:** | |
| **Solution Applied By:** | Chavdar Ivanov | **Paragraph:** | |
| **Completion Date:** | 07/01/2023 | **Table:** | |
| **CIM Keywords:** | | **Originally Closed in Version:** | |
| **Breaking Change:** | No | **Origination Date:** | 05/17/2023 |
| **Breaking Change Description:** | | **Origination ID:** | |
| **CIM Impacted Groups:** | WG13 | **Originally Assigned To:** | |
| **Requestor:** | | | |

**Description**

in regards to CommunicationIEC class and the "triple" association of WindPlantControlCommIEC.CommunicationIEC.

The WindPlantControlCommIEC class could be modified to use three separate associations, one for each communication module type (windPlantReferences, windPlantMeasurements and powerDeviceReferences) instead of the one multi-purpose association (WindPlantControlCommIEC.CommunicationIEC).
In that case the CommunicationIEC.kind parameter would not even be required because each association would determine the purpose of the communication object.

For example, use:
• WindPlantControlCommIEC.WindPlantReferences,
• WindPlantControlCommIEC.WindPlantMeasurements and
• WindPlantControlCommIEC.PowerDeviceReferences
Instead of the three WindPlantControlCommIEC.CommunicationIEC associations.

The current solution is atypical, because a triple-association is seldom used in CIM, and also clumsy to use, while still requiring a dedicated parameter to distinguish between communication modules that are basically of the same type.

**Proposed Solution**

• WindPlantControlCommIEC.WindPlantReference,
• WindPlantControlCommIEC.WindPlantMeasurement and
• WindPlantControlCommIEC.PowerDeviceReference
Instead of the three WindPlantControlCommIEC.CommunicationIEC associations.

**Decision**

Apply the changes as proposed in order to optimise the modelling

**Release Notes**

The following changes are applied to 302 and 457:
- Added the following associations between WindPlantControlCommIEC and CommunicationIEC
• WindPlantControlCommIEC.WindPlantReference,
• WindPlantControlCommIEC.WindPlantMeasurement and
• WindPlantControlCommIEC.PowerDeviceReference
- delete WindPlantControlCommIEC.CommunicationIEC association
- delete CommunicationModuleKind
- delete CommunicationIEC.kind

**History**

**#1 - 07/01/2023 03:13 PM - Chavdar Ivanov**

*- Status changed from New to Open*

**#2 - 07/01/2023 03:13 PM - Chavdar Ivanov**

*- Status changed from Open to Review*

**#3 - 07/01/2023 03:13 PM - Chavdar Ivanov**

*- Status changed from Review to Closed*

**#4 - 07/05/2023 10:01 AM - Chavdar Ivanov**

*- Solution Version changed from 18v05 to CIM18v05*