

CIMug Saclay 2019

Usage of IEC CIM standards by EDF-SEI: on-going projects and perspectives

EDF Group is one of the major Utility worldwide (35,1 million of customers worldwide, 1st producer of renewable electricity in Europe, 90% of electricity CO² free, 584 TWh electricity generation).

EDF SEI, an EDF Group business unit, is in charge of 1.1 Million of Customers, manage 35 000 km of Electrical Networks dispatched in Corse, Guadeloupe, Guyane, La Réunion, Martinique and St Pierre et Miquelon

This paper will describe **CIM** Usage by **EDF SEI** (EDF Group subsidiary in charge of Island Territories) with the support of **EDF CIST** (Power System & Transmission Engineering Centre)¹, and **EDF R&D**.

CIM is used for several years to support a **GIS to Network Planning** interface.

SEI has extended its usage for Data consistency between its GIS, Remote Control System and Network Operation System.

This paper will explain what IEC CIM Profiles have been used, and what are the future requirements.

Principally new advanced functions like **Operational Planning** and **Outage management** (Support of restoration and Recovery activities) will leverage already existing CIM interfaces and will propose some extensions in coordination with IEC TC57 working groups.

Requirements concerning **CIM and 61850** will also be exposed as SEI is experimenting some 61850 solutions (DER interfaces, 61850 substation automation solutions)

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¹ <https://www.edf.fr/en/the-edf-group/who-we-are/activities/transmission-and-distribution/transmission-grid-engineering#cist-grid-studies-construction-and-maintenance>