

Title	RiseClipse for CIM and 61850 Harmonization
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Short bio	Dominique Marcadet is a professor of computer science at CentraleSupélec. He graduated from Supélec in 1984 and started his research as an assistant professor on object-oriented approaches, initially on languages, and later on models. He started a collaboration with EDF R&D on the CIM standard in 2002. He submitted to EDF the idea to use MDE tools for processing CIM XML files in 2008, it gave birth to CimClipse, the predecessor of RiseClipse.
Abstract	<p>RiseClipse is an umbrella name for a set of tools based on Eclipse and dedicated to the processing of data files conforming to IEC standards. The development of RiseClipse is hosted by RISEGrid (Research Institute for Smarter Electric Grids), a joint research institute between EDF, the main French utility, and CentraleSupélec, an internationally-reputed higher education and research institution. RISEGrid is dedicated to the study and modeling of smart distribution networks.</p> <p>The main characteristic of RiseClipse is the use of MDE (Model Driven Engineering) tools so that data is processed at the model or semantic level instead of the XML or syntactic level. This richest level is of great interest for processing data more accurately.</p> <p>The main standards supported by the open source version of RiseClipse are CIM and 61850. The main tools available are validators of data files using rules written in the Object Constraint Language, an OMG standardized language designed to specify invariants on data at the model level.</p> <p>The interoperability within TC 57 in the long term is an ongoing effort by the WG19 of TC57, it includes the harmonization between CIM and 61850. Given that RiseClipse supports both models, we have recently begun to investigate this problem using RiseClipse. We will present the results we have obtained up to now using the QVT (Query/View/Transform) Operational language (also standardized by OMG) and we will describe what could be expected using the QVT Relations language.</p>