

Focus on CIM for Dynamic models

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We are consultants in power system

Interconnection studies

Dynamic simulation & stability analysis

Power system control

Setup defense plan against loss of synchronism,
voltage or frequency collapse, or interarea oscillations

Smart grids



software dedicated to the dynamic simulation of power systems

specialized in modeling with large frequency spectrum

(from electromechanical transients to long term stability)

implementing a variable time step

co-developped with RTE

Eurostag

advanced tool

not covering the upstream

seldom requiring first data acquisition

using data coming from other tools

must be pluggable into an heterogenous environment

=> need for a standard exchange format

Common Information Model

CIM CPSM

detailed topology

2000



CIM UCTE

nodal topology

2008



CIM for Dynamic Models

2009

CIM for Dynamic Models

Standard models

(synchronous, asynchronous, controllers, ...)

models supporting the different vendors approaches

User-defined models

allowing a precise modeling of the controllers

CIM for Dynamic Models... tomorrow

Unbalanced models

FACTS

HVDC

Wind turbines

Protections devices

... as user-defined models



PEGASE

Pan European Grid Advanced Simulation and state Estimation

TE leads the consortium

with RTE and 8 other TSOs

part of the 7th Framework Program of the EC

CIM is part of the perspectives of the PEGASE projet