

Abstract Submission for CIMug Meeting at Saclay, June 2019

Developing a Grid Model Data Management Architecture for Distribution

Effective management of geospatial and grid model data is one of the major challenges facing electric distribution utilities today. As levels of DER penetration increase and distribution grids grow increasingly complex, utilities need a solid foundation of well-managed geospatial and grid model data on which to deploy the new software tools required for effective grid planning, protection and operation.

Leveraging the collaborative efforts of utilities and vendors, the Electric Power Research Institute (EPRI) is leading a multi-year initiative to develop an industry architecture for managing distribution grid model data. Drawing on earlier EPRI work on network model management in Transmission, the project's goal is the definition of an architecture that will enable vendors to create reusable, standards-based interfaces that utilities can deploy to further their effective management of network model information from its source through its transformation into grid models consumed by multiple applications across the planning and operations domains.

In the project, a core team of industry experts is using real-world insight gained from deep-dives at 8 member utilities, along with mainstream enterprise architecture approaches, to develop the architecture. The architecture, which is being expressed in terms of business functions and the data exchanges between them, is being vetted by both utilities and vendors and is being shared with IEC working groups to inform the future development of the Common Information Model.

In this session, an EPRI researcher and a member utility will share project experience and progress.