

Abstract: Outage Scheduling for Operations, Planning and Market Systems

As the implementation of CIM based Network Model Management systems, that supports Real-Time and Planning Transmission Network Analysis application increases, the next logical extension is to include models that transmission outages applications usage of these models. So, what is Outage Scheduling and how can the CIM be used to support this activity?

Outage Scheduling is the process of communicating, scheduling and managing when transmission facilities are going to be unavailable. These facilities include transmission line, transformers, switching devices and resources (power producers) or any other devices connected to the transmission system.

Historically the equipment models to support Outage Scheduling were developed independently of the network model that is used to analyze the system impact of these outages. Outage management and scheduling and scheduling of outages was only a transmission operations reliability function. Many other participants now need this information with impacts to Markets and Planning process. So the need to share information about current and future outages in a common format that is free of ambiguity is extremely important.

This presentation will present the work that Oncor and others (ERCOT, AEP) is doing to leverage using the models that are being maintained using Network Model Management system and how information about these outages is being exchanged using XML messaging.

Topics that will be presented will include;

How information needs to be combined between 61970 and 61968 CIM packages to support the equipment model for outage scheduling application

Usage of messaging to exchange information about outage that must validate against the equipment model.

How the management of outages impact the Real-time and Field Operations, Planning and Market systems.

The negative effect of inadequate and non-transparent Outage Scheduling processes.