USE CASE 15 – PROTECTION ENGINEER ANALYZES RUN-TIME DATA AND PROTECTION MODEL AFTER FAULT EVENT

Use Case Title

Protection Engineer Analyzes Run-Time Data And Protection Model After Fault Event

Use Case Summary

Analysis of protection operation is a very time consuming process that requires the development of software tools for automatic analysis. Such tools can take advantage of both CIM and IEC 61850. First of all a CIM model is needed to define the system configuration. This needs to include significant level of details, such as bus configuration and system topology. It also requires detailed IEC 61850 protection function models (including settings, active setting group, etc.). The state of switching devices at the time of the operation should be available. Event report files and LN reports are inputs to the software as well.

Use Case Detailed Narrative

Business Rules and Assumptions