TITLE: CIM for Asset Health

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The efficient, safe and reliable operation of a utility's electrical system is dependent on its knowledge of the condition of its field assets. The organization and integration of disparate data from disparate sources is of key importance in providing the understanding required to accurately assess asset condition.

Based on work done in the EPRI Smart Grid Substation Lab in 2011 and 2012, the use of the CIM and 61850 IEC standards and their data models for the representation of information related to transformer and breaker asset health was explored. In the work, the Common Information Model (CIM) was utilized to organize breaker- and transformer-related nameplate information, field data, tank DGA test results and maintenance records for asset health purposes. CIM profiles or profile extensions were defined to accurately support exchange of asset health information between applications.