

MultiSpeak Version 3.0 and EOscada

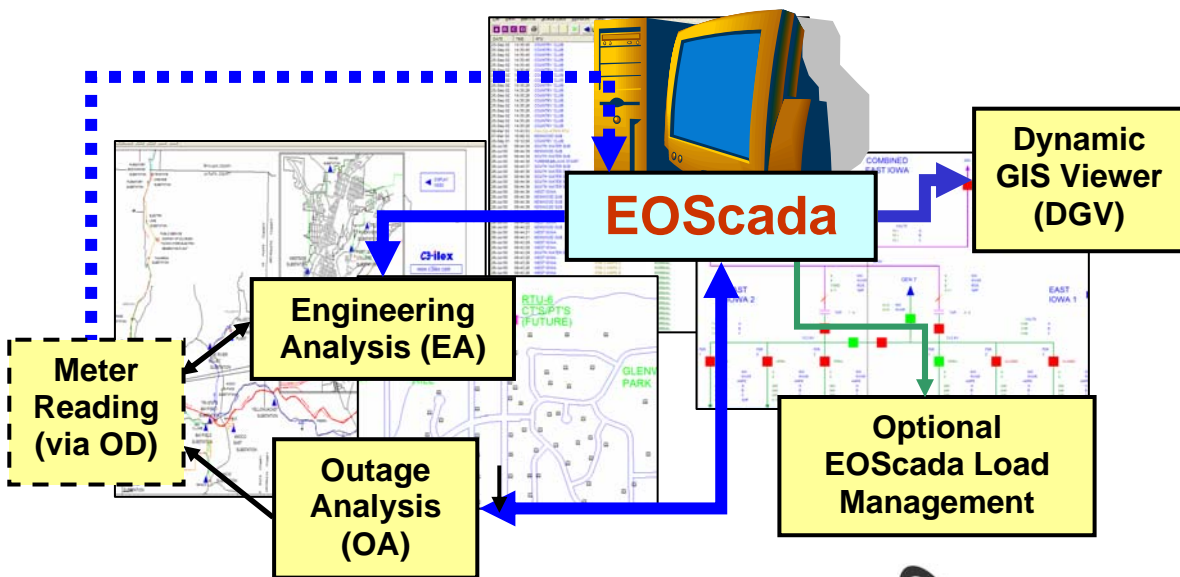
MultiSpeak

MultiSpeak is a specification developed by the Cooperative Research Network (CRN) of the National Rural Electric Cooperative Association (NRECA) and a group of software vendors and consultants that serve the small utility market to allow communication and data exchange between various software applications commonly used by rural electric cooperatives. A good overview of the reasons behind the development of MultiSpeak can be found at the MultiSpeak website <http://www.multispeak.org/whatisit.htm>.

The MultiSpeak specification is layered on using Extended Markup Language, or XML, to share data between participating applications.

MultiSpeak Version 3.0 Process Model

In Version 3.0, there are many more types of applications, as well as many more data flows. EOscada communicates with Engineering Analysis (EA), Outage Analysis (OA), and Dynamic GIS Viewers (DGV) as shown in the diagram below. Also shown in the diagram below is Meter Reading (MR) which does not directly communicate with EOscada.



EOscada Implementation



EOscada supports the following data flows and optionally emulates data flow between MR and EA. Depending on the data flow, applications may subscribe for change data, request specific data when needed, or both for the following kinds of information.

- Provide Analogs (volts, amps, MW, PF), device status (request from EA, respond by SCADA), temperature, time, and SCADA point definitions to Engineering Analysis.
- Provide device status and transition, SCADA analogs to Outage Analysis.
- Receive outage event information from Outage Analysis.
- Provide device status, SCADA analogs, and SCADA point definitions to a Dynamic GIS Viewer
- Optionally receive selected customer meter statuses via the MultiSpeak Outage Detection (OD) link to localize outages on a SCADA custom display.