

The ABB External Status Asset Monitor (ESAM) will identify to the user any performance changes, or other monitored and enabled condition that might represent degradation of external conditions monitored by the condition monitoring system. Simple installation and configuration permit the ESAM to begin continuously monitoring external conditions very rapidly. Resulting notifications can alert operations and maintenance staff to situations which could be making external operation costly and inefficient.

The purpose of the ESAM is to provide a rapid development mechanism for creating application specific asset monitors which are compatible with the ABB Asset Optimization (AO) system. The ESAM itself is very generic in design, but copies of it may be rapidly configured for specific applications using the AO-SDK's Excel configuration tool. The data source for the ESAM must be OPC-DA and must be configurable enough to create the data strings necessary for the ESAM to work.

After installation and configuration, Asset Monitoring startup causes the ESAM to subscribe to OPC-DA data items containing all of the information required to create an AO Asset Condition Document (ACD). Reported conditions can generate an alarm in the 800xA Alarm and Event system, and trigger the generation and transmittal of a pager message or an e-mail. Additionally, if a CMMS such as Maximo is configured, it is possible to quickly generate a Work Order for a maintenance request.

Asset Monitor dependencies

The following ABB software is required for installation / configuration / operation of the ESAM:

- 800xA Core System
- Asset Optimization
- ESAM Installation Kit
- Optional System Extensions:
 - Maximo Integration (CMMS connectivity)
 - Messenger (e-mail / paging for maintenance needs)

Required inputs

The ESAM expects the following information from the data source:

- Standard data strings for each condition, in a simple XML format:
 - Severity (mandatory)
 - Subcondition (optional)
 - Description (optional)
 - Possible Cause (optional)
 - Suggested Action (optional)
 - The data source may also provide URLs for further thin client access from within the AO system

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