

Severity	Condition	Sub Condition	Description	Timestamp	Quality Status
1	QualityStatus	Good	Loop 1, Node 8, Module 0; Error Summary: BAD; ModuleType: Enhanced; EnhancedType: NPM01; Node environment status flag: good	3/7/2006 8:16:22 AM	good
1000	Communication	Problems- See Desc	Communication status conditions; Nodes offline?: Yes; Receive errors on Ch.1?: no; Receive errors on Ch.2?: no; Transmit errors on Ch.1?:no; Transmit errors on Ch.2?:no; Receiver idle on Ch.1?: no; Receiver idle on Ch.2?: no; Ring communication fail summary: good; Controlway bus A: good; Controlway bus B: FAILED; NIS loop relay drive transistor 1: good; NIS loop relay drive transistor 2: good; NIS channel 1 disabled?: no; NIS channel 2 disabled?: no	3/7/2006 8:16:22 AM	good
1	I/O	Good	Not applicable	3/7/2006 8:16:22 AM	good
1	Memory	Good	Memory status conditions; Memory overflow?: no	3/7/2006 8:16:22 AM	good
1	Redundancy	Good	Redundancy status conditions; Backup module configured: no; Backup status: good; Primary secondary indicator: Primary	3/7/2006 8:16:22 AM	good
1	Mode	Execute	Module in execute mode	3/7/2006 8:16:22 AM	good
1	Revision	Valid	The module revision letter/number matches the required revision : [revision is E5, expected E5]	3/7/2006 8:16:22 AM	good
1	Errors	No Error Code	Not applicable	3/7/2006 8:16:22 AM	good

Advanced Harmony Control System Monitoring identifies the operational status of a Harmony Control System and reports significant abnormal changes to an ABB Asset Optimization (AO) system. The reported conditions generate alarms in the 800xA Alarm and Event system and other maintenance related notifications distributed by the AO infrastructure. Resulting notifications can alert operations and maintenance staff to situations that can be corrected efficiently and effectively to reduce the impact on the control system.

Functional Description

Advanced Harmony Control System Monitoring is a licensed feature that can either be integrated as part of an 800xA system, or can be a single node utilized to complement an existing Harmony Control System. It monitors the status of the Harmony Control System to report any significant abnormal change in operational status of the Harmony Control System hardware. This is performed within the Asset Optimization environment of System 800xA, using AO Asset Monitors.

List of Potential Conditions

The status conditions of every Harmony module are monitored at every scheduled execution. Some of the more common status conditions are:

- Quality Status
- Communication Status
- I/O Status
- Memory Status
- Redundancy Status
- Mode Status
- Revision Status
- Errors Status

Asset Monitor Dependencies

The following ABB software is required for installation, configuration and operation of Advanced Harmony Control System Monitoring:

- 800xA Core System
- Asset Optimization
- 800xA for Harmony

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