

Severity	Condition	Sub-Condition	Description	Timestamp	Quality Status
I	Quality Status	Good	Loop 1, Node 0, Module 0: Error Summary (SAC): Module type: Enhanced: Enhanced type: NRM01 Node environment status flag: good	3/7/2006 9:16:22 AM	good
I	Communication	Problem - See Desc	Communication status conditions: Nodes offline? Yes: Receive error on Ch 17: no; Receive error on Ch 27: no; Transmit error on Ch 17: no; Transmit error on Ch 27: no; Receive idle on Ch 17: no; Receive idle on Ch 27: no; Ring communication self summary: good; Control bus A: good; Control bus B: FAILED; NG loop relay drive barometer 1: good; NG loop relay drive barometer 2: good; NG channel 1 disabled?: no; NG channel 2 disabled?: no	3/7/2006 9:16:22 AM	good
I	I/O	Good	Not applicable	3/7/2006 9:16:22 AM	good
I	Memory	Good	Memory status variables: Memory overflow? no	3/7/2006 9:16:22 AM	good
I	Redundancy	Good	Redundancy status conditions: Backup module configured: no; Backup status: good; Primary secondary indicator: Primary	3/7/2006 9:16:22 AM	good
I	Mode	Execute	Module in execute mode	3/7/2006 9:16:22 AM	good
I	Revision	Valid	The module revision letter is under maintenance for the required revision. Revision is ES, expected ES	3/7/2006 9:16:22 AM	good
I	Errors	No Error Code	Not applicable	3/7/2006 9:16:22 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

For the latest information on ABB visit us at <http://www.abb.com>



ABB
Process Automation Division
Västerås, Sweden
Phone: +46 (0) 21 32 50 00
Fax: +46 (0) 21 13 78 45
www.abb.com/controlsystems
email: processautomation@se.abb.com

ABB
Process Automation Division
Wickliffe, Ohio, USA
Phone: +1 440 585 8500
Fax: +1 440 585 8756
www.abb.com/controlsystems
email: industrialitsolutions@us.abb.com

ABB
Process Automation Division
Mannheim, Germany
Phone: +49 (0) 1805 26 67 76
Fax: +49 (0) 1805 77 63 29
www.abb.de/controlsystems
email: marketing.control-products@de.abb.com

© Copyright 2006 ABB.

All rights reserved. Specifications subject to change without notice. Pictures, schematics, and other graphics contained herein are published for illustration purposes only and do not represent product configurations or functionality. User documentation accompanying the product is the exclusive source for functionality descriptions.

The Industrial^{IT} wordmark, Aspect Objects, and all above-mentioned names in the form XXXXX^{IT} are registered or pending trademarks of ABB. All rights to other trademarks reside with their respective owners.