



Steve Burt, Automation Sentinel Business Development Manager

# Using My Control System for Advanced Control System Management

# My Control System Agenda

- Automation Sentinel Overview
- My Control System
  - Benefits
  - Demo
  - System Benchmarks
- Q & A

# Automation Sentinel Overview

**SW Maintenance Agreement** ➔ **Customer Program**



V 3.0

**Included Services for Program members only**

MyControlSystem, Web Coach, Benchmark Reports, Discounts on Parts and Parts services, 3<sup>rd</sup> Party Evolution, Plant/Site Group Subscriptions Management with synchronization and advantageous pricing

**Pay-Per-Use Services**

Performance Fingerprints, WebTechTalks, Lifecycle Solutions

V 2.0

**Maintain**

maintain your system at it's current version level

**Maintain Plus**

enhance your system with new versions and features

V 1.0

**Maintain & Evolve**

extend OCS systems with newer 800xA technology

2007

2010

Q1/12

# Automation Sentinel

## Flexible Program Designed to Fit Every Stage of a Control System's Life Cycle

- **Maintain**

- Updates (corrections...ok, **bug fixes**) available within a software license version

- **Maintain Plus**

- Upgrade to **new software versions** within a controller family

- **Maintain & Evolve**

- Move from any controller family to one of ABB's latest control systems
- Target system can be 800xA, S+, Freelance or Compact
- Receive brand **new software licenses** to replace existing functionality for no additional cost
- Available for select competitive control systems as well

# Automation Sentinel

## How the Price is Determined

- Pick the level – Maintain, Maintain Plus, or Maintain & Evolve
- Count the number of operator workplaces
- Do you have any of these options?
  - Historian
  - Batch System
  - Safety System
  - HGS - Harmony Gateway Server
  - RTPI – Real Time Production Intelligence

# Automation Sentinel

## Standard Features

Standard Membership Features				
	w/o Sentinel	Maintain	Maintain Plus	Maintain & Evolve
<p>SolutionsBank</p> <p>A web based self help system that keeps your automation equipment information and software updates available, organized, and updated, in one convenient location 24/7/365.</p>	No	Yes	Yes	Yes
<p>3rd Party Hardware &amp; Software Validation and Security Services</p> <p>Factory testing of third party hardware and software, including Microsoft security patch and McAfee Anti-Virus upgrade compatibility tests. Access to third party hardware and software qualification reports</p>	No	Yes	Yes	Yes
<p>SupportLine Factory Support</p> <p>Technical telephone support, guarantees priority access to systems experts and equipment support resources. Service offering varies by country.</p>	No	Yes	Yes	Yes
<p>Service Packs</p> <p>Service packs provide corrections to the software version that is currently installed on a system. Software version number stays at the same level.</p>	No	Yes	Yes	Yes
<p>Feature Packs</p> <p>Feature packs provide minor enhancements to the software version that is currently installed on a system. Software version number stays at the same level.</p>	No	No	Yes	Yes
800xA Device Library Upgrades	No	No	Yes	Yes
<p>Version Upgrades</p> <p>Major software enhancements. Upgrades the software to the latest version.</p>	No	No	Yes	Yes
<p>Evolution to 800xA, Symphony Plus, Freelance, or Compact</p> <p>Trade up from a Heritage system to one of ABB's most up-to-date control systems.</p>	No	No	No	Yes

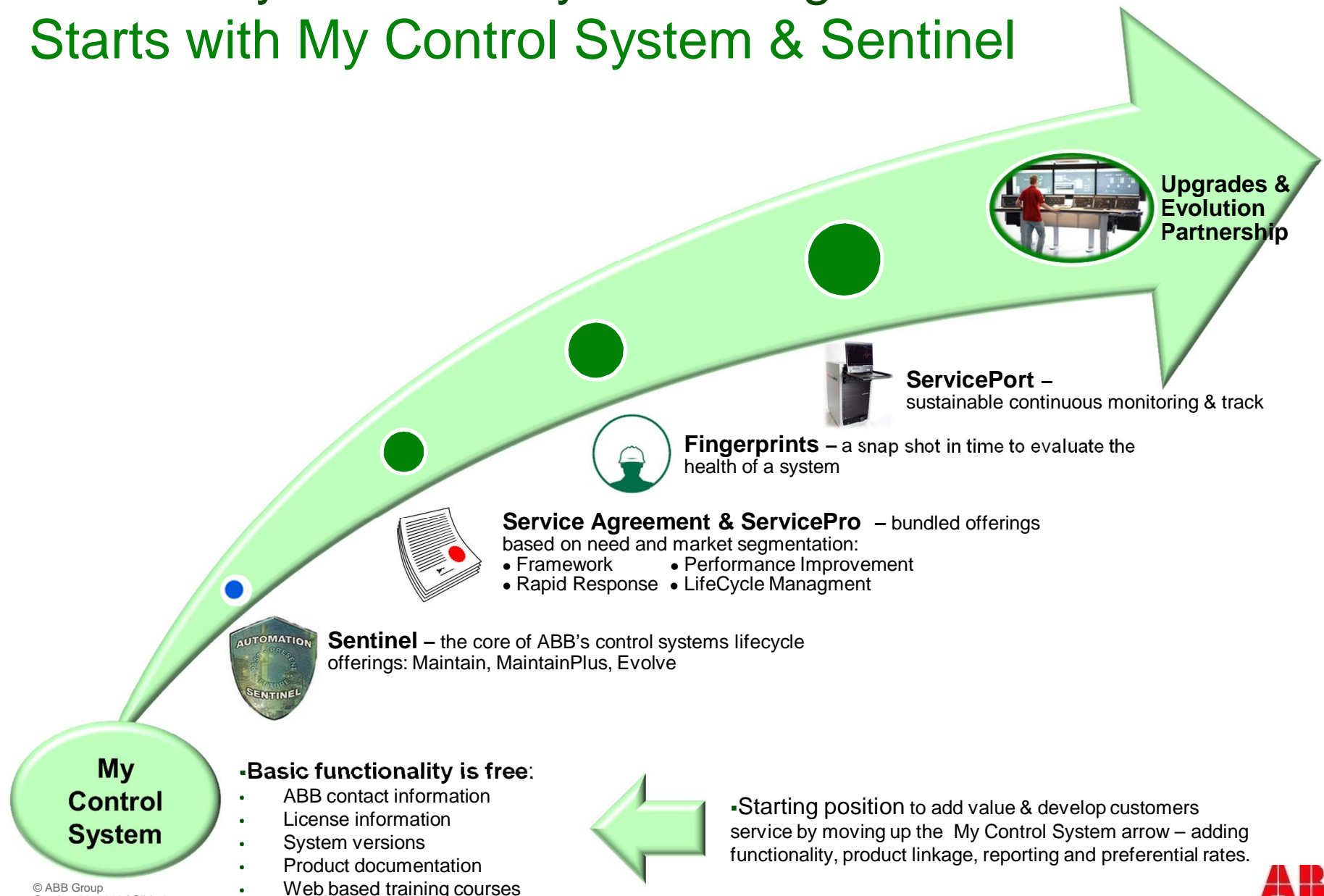
# Automation Sentinel

## Expanded Offering

	w/o Sentinel	Maintain	Maintain Plus	Maintain & Evolve
<p>Access to My Control System</p> <p>View Control system software licensing information and download license keys. Sentinel subscribers get additional benefits including access to documentation, software downloads and more.</p>	Yes (limited access)	Yes	Yes	Yes
<p>Discount on Expert Workshops</p> <p>Advanced training workshops offered to cover specific subjects and specific customer training and certification requirements. Workshops are targeted for senior engineers who wish to develop a measurable level of competencies.</p>	No	10% Discount Contact ABB University	10% Discount Contact ABB University	10% Discount Contact ABB University
<p>Discount on Expert Certifications</p> <p>Advanced training workshops offered to cover specific subjects and specific customer training and certification requirements. Workshops are targeted for senior engineers who wish to develop a measurable level of competencies.</p>	No	10% Discount Contact ABB University	10% Discount Contact ABB University	10% Discount Contact ABB University
<p>Web Coach Online Training Sessions</p> <p>Web-based training sessions covering basic control system configuration and maintenance topics. Each session 45 – 60 minutes in length. Sessions will be recorded and available for future playback.</p> <p>Sessions will be made available through the My Control System web site.</p>	No	Yes	Yes	Yes
<p>Web Tech Talk Sessions</p> <p>Live, interactive web sessions focusing on advanced topics presented by ABB subject matter experts.</p> <p>Each session 60 – 90 minutes in length. Sessions will be recorded and available for future playback.</p> <p>Sessions will be made available through the My Control System web site. Contact your ABB Service Account Manager to get the latest schedule and to purchase this valuable service.</p>	No	Additional Fee Contact your ABB Service Account Manager	Additional Fee Contact your ABB Service Account Manager	Additional Fee Contact your ABB Service Account Manager
<p>Control System Benchmark Reports</p> <p>Analyze and validate PC hardware, ABB and 3<sup>rd</sup>-party software versions. Identifies system components out of specification and security risks. Currently available for 800xA, other systems to follow. This service is available on the My Control System web site. Contact your ABB Service Account Manager or Field Service Engineer for more details.</p>	No	Yes	Yes	Yes



# Control System Life Cycle Management Starts with My Control System & Sentinel





# My Control System Benefits

- One stop shop for all your ABB support needs
- Self-help services
  - Pro-active software license management
  - License key generation
  - Documentation
  - Downloads
  - eLearning
  - System performance checks

# My Control System Demonstration

The screenshot shows a web browser window with the address bar displaying <https://www125.abb.com:8443/Home/default.aspx>. The page features the ABB logo at the top left. Below the logo is a navigation bar with 'Site Actions' (containing a folder icon), 'Browse', and 'Page'. On the right side of this bar, the email 'ec.maint.us@gmail.com' and a link to 'My contact information' are visible. A secondary navigation bar includes 'Home' (selected), 'Reports', and 'System data files'. The main content area is divided into two columns. The left column contains a large image of an industrial facility and a welcome message for 'Mark Smith'. The right column, titled 'My Control Systems', lists four systems: 'MCS US' (with address and a 'Request change' button), 'SID31807 Big System - MCS Demo', 'SID31808 Small System - MCS Demo', 'SID33016 Symphony Plus - MCS Demo', and 'SID36231 Freelance - MCS Demo'. Below the main content, there is a 'Latest reports' section which currently shows 'There are no items to show in this view' and a 'More' link.

ABB Home

Site Actions Browse Page

ec.maint.us@gmail.com  
My contact information

Home Reports System data files

**Welcome Mark Smith**

To the lifecycle service and support portal for your ABB control system(s). Here you find information, service and support deliverables from the people who knows your ABB control system the best.  
Click the control system(s) identity to the right.  
Link to [My Control System User Manual](#).

**Latest reports**

There are no items to show in this view

[More](#)

**My Control Systems**

**MCS US**  
1 New Street, 44095 Big City  
United States  
[Request change](#)

[SID31807](#) Big System - MCS Demo  
[SID31808](#) Small System - MCS Demo  
[SID33016](#) Symphony Plus - MCS Demo  
[SID36231](#) Freelance - MCS Demo

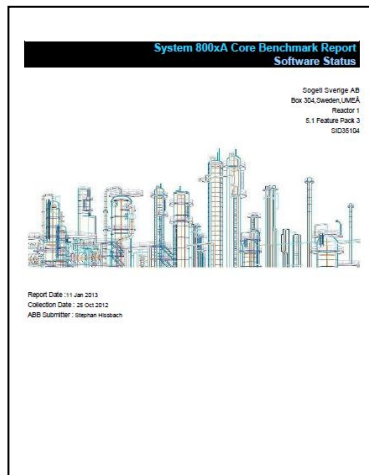
# My Control System System Benchmarks

- Two types of 800xA Benchmark tools
  - Software Installation Status Report
  - Performance Status Report
- Available at no-charge for Sentinel subscribers
  - Not available to anyone else at any price
- Detect issues which can reveal the roots for
  - Restricted or delayed operation or incomplete functional availability.
  - Decreased reliability (single points of failure) or destabilized hardware.
  - Security vulnerabilities.
- Step into preventive maintenance
  - Uncover emerging failure situations either before they occur, or before they develop into major defects.

# My Control System System Benchmarks

- Benchmark Report
  - Generated automatically after upload to *My Control System*.
  - Immediately available as PDF document for customer.
  - Provides a table of results in a go/no-go presentation.
  - Does not contain detailed information.
  - Available for Sentinel customers only – free of cost.

# My Control System Software Installation Status Report



- Validates the software installation against the requirements of ABB releases.
- Data collection takes only some minutes.
- Quick and easy check after software installation, updates and maintenance activities.

**Legend:**

OK
Unrecorded software version or missing non-mandatory software
Warning software
Not applicable
Software installed but cannot be validated

NOTE - Function Type detail for each node is described in Node List table at the end of this report.

**1 ABB Software**

No.	CheckItem	ACS1-6000-ES	ACS2-6000-ES	CS-6000-ES	CS-6000-ES	ES2-6000-ES	UNIVERSUM
1	ABB 800xA Basic S-TP 5.1.3	OK	OK	OK	OK	OK	OK
2	ABB 800xA Common SoftWare Install 5.1.0/2	OK	OK	OK	OK	OK	OK
3	ABB 800xA IEC61131-3 Compiler 5.1.0/2	OK	OK	OK	OK	OK	Y
4	ABB 800xA Instructions S-TP 5.1.3	OK	OK	OK	OK	OK	N/A
5	ABB 800xA S-TP 5.1.3 (4.3)	N/A	N/A	N/A	N/A	N/A	N/A
6	ABB 800xA System Installer 5.1.0/2	Y	Y	Y	Y	Y	N/A
7	ABB 800xA Connect V8.1 (4.3) Extension 5.1.0/2	Y	Y	Y	Y	Y	N/A
8	ABB 800xA Connect V8.1 (4.3) Extension 5.1.0/2	OK	OK	OK	OK	OK	Y
9	ABB 800xA M-Extension	OK	OK	OK	OK	OK	Y
10	ABB 800xA Express 5.1.0/1	N/A	N/A	N/A	N/A	Y	N/A
11	ABB Asset Configuration S-TP 5.1.2/2	OK	OK	OK	OK	OK	Y
12	ABB 800xA HART DTM HART DTM Builder S-TP 5.1.0	OK	OK	OK	OK	OK	N/A
13	ABB 800xA PROFIBUS DTM PROFIBUS DTM Builder S-TP 5.1.0	OK	OK	OK	OK	OK	N/A
14	ABB Control Latching System 5.1.0/2	OK	OK	OK	OK	OK	OK
15	ABB Control Latching System Extension 5.1.0/2	OK	OK	OK	OK	OK	OK
16	ABB Control Builder M	OK	OK	OK	OK	OK	N/A
17	ABB Control Builder M-Client 5.1.0/2	OK	OK	OK	OK	OK	Y
18	ABB Control Builder M-Client 5.1.0/2	OK	OK	N/A	N/A	N/A	N/A

# My Control System

## Software Installation Status Report

- ABB Software
  - Verify installed products
  - Detect incorrect versions
  - Detect missing, but required products
- Microsoft Windows, and other third party software
  - Verify installed products and extensions
  - Detect incorrect versions
  - Detect missing, but required extensions and products
- Microsoft Updates
  - Installed security updates and hotfixes
  - Missing security updates and hotfixes

# My Control System Software Installation Status Report

## 1 ABB Software

No.	CheckItem	ASCS1-400M-51	ASCS2-400M-51	CS1-400M-51
1	ABB 800xA Base S-FP 5.1.3	G	G	G
2	ABB 800xA Common Soft Party Install 5.1.0/1	G	G	G
3	ABB 800xA IEC61850 Connect 5.1.0/2	G	G	G
4	ABB 800xA Instructions S-FP 5.1.3	G	G	G
5	ABB 800xA RHRP S-FP 5.1.3 (4.3)	N/A	N/A	N
6	ABB 800xA System Installer 5.1.0/3	Y	Y	Y
7	ABB AC 800M Connect VB Graphics Extension 5.1.0/0	Y	Y	Y
8	ABB AC800M Connect	G	G	G
9	ABB AC800M HI Extension	G	G	G
10	ABB Asset Express 5.1.0/1	N/A	N/A	N
11	ABB Asset Optimization S-FP 5.1.2-0	G	G	G
12	ABB Basic HART DTM / HART DTM Builder S-FP	G	G	G

- Compares what's installed against ABB software release documentation
- Yellow fields denote an incorrect version.
- Red fields indicate that an expected software package is not installed.



## Technical Description

### System 800xA 5.1 System Software Versions

1.	Installation Instructions.....	3
1.1	Third Party Software.....	3
1.2	System 800xA 5.1 64 Bit.....	3
1.2.1	System 800xA 5.1 Feature Pack 1 64 Bit.....	3
1.3	System 800xA 5.1 (32 Bit OS only).....	3
1.3.1	System 800xA 5.1 Feature Pack 1 (32 Bit OS only).....	4
1.3.2	System 800xA 5.1 Rev A (32 Bit OS only).....	4
2.	System 800xA 5.1 Feature Pack 1 64 Bit.....	5
2.1	Included Features Packs and Rollups in System Feature Pack 1 64 Bit.....	5
2.2	Post Release Features on Feature Pack 1 64 bit.....	5
2.3	System 800xA 5.1 Feature Pack 1 64 Bit Released Software Versions.....	5
2.3.1	System 800xA.....	5
2.3.2	Related Products.....	10
3.	System Version 5.1 64 Bit.....	11
3.1	System 800xA 5.1 64 Bit Released Software Versions.....	11



# My Control System Software Installation Status Report

## 2 Microsoft Software

No.	CheckItem	ASC1-800H-S1	ASC2-800H-S1	CS3-800H-S1	CS4-800H-S1	EC1-800H-S1
1	Microsoft Windows 7 Enterprise Service Pack 1	N/A	N/A	N/A	N/A	G
2	Microsoft® Windows Server® 2008 Enterprise Service Pack 2	G	G	G	G	N/A

- Compare **Microsoft** and **3<sup>rd</sup>-Party Software** against ABB Third Party Software document.

## 4 Third Party Software

No.	CheckItem	ASC1-800H-S1	ASC2-800H-S1	CS3-800H-S1	CS4-800H-S1	EC1-800H-S1
1	Adobe Reader 9.3.2	R	G	G	G	R
2	AmTagi Lite	G	G	G	G	G
3	Internet Explorer 8	G	G	G	G	G
4	Internet Explorer 9.0.000	N/A	N/A	N/A	N/A	N/A
5	MATLAB(R) Compiler Runtime 7.10	G	G	N/A	N/A	N/A
6	McAfee VirusScan Enterprise	G	G	G	G	G
7	Microsoft .NET Framework 3.5 SP 1	G	G	G	G	G

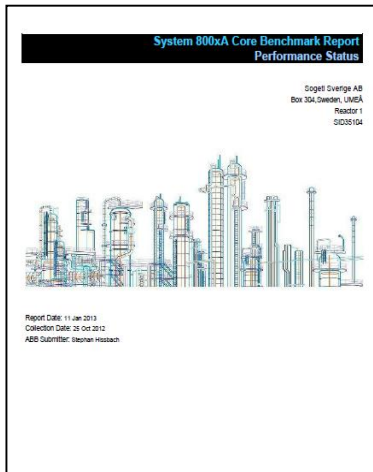
# My Control System Software Installation Status Report

## 3 Security Updates

No.	CheckItem	ASCS-800H-S1	ASCS-800H-S1	CS3-800H-S1	CS4-800H-S1	ECT-800H-S1
1	Hotfix for Microsoft Windows (KB2876255)	N/A	N/A	N/A	N/A	N/A
2	Hotfix for Microsoft Windows (KB942288)					N/A
3	Hotfix for Microsoft Windows (KB970157)					N/A
4	Hotfix for Microsoft Windows (KB977959)	N/A	N/A	N/A	N/A	N/A
5	MS09-022Win KB 961501	R	R	R	R	N/A
6	MS09-028Win KB 970238	N/A	N/A	N/A	N/A	N/A
7	MS09-037Win KB 973507	R	R	R	R	N/A
8	MS09-037Win KB 973540	R	R	R	R	N/A
9	MS09-041Win KB 971657	R	R	R	R	N/A
10	MS09-042Win KB 960859	R	R	R	R	N/A
11	MS09-044Win KB 956744	N/A	N/A	N/A	N/A	N/A
12	MS09-045Win KB 971981	N/A	N/A	N/A	N/A	N/A
13	MS09-048Win KB 967723	R	R	R	R	N/A
14	MS09-051Win KB 954155	R	R	R	R	N/A
15	MS09-056Win KB 974571	R	R	R	R	N/A
16	MS09-059Win KB 975467	R	R	R	R	N/A
17	MS09-063Win KB 973565	R	R	R	R	N/A
18	MS09-070Win KB 971720	R	R	R	R	N/A
19	MS09-071Win KB 974318	R	R	R	R	N/A
20	MS10-001Win KB 972270	R	R	R	R	N/A
21	MS10-012Win KB 971468	N/A	N/A	N/A	N/A	N/A
22	MS10-013Win KB 975900	R	R	R	R	N/A
23	MS10-019Win KB 978901	N/A	N/A	N/A	N/A	N/A
24	MS10-019Win KB 978309	R	R	R	R	N/A
25	MS10-020Win KB 980232	N/A	N/A	N/A	N/A	N/A
26	MS10-022Win KB 981332	N/A	N/A	N/A	N/A	N/A
27	MS10-024Win KB 978323	R	R	R	R	N/A
28	MS10-026Win KB 977616	R	R	R	R	N/A
29	MS10-026Win KB 978338	R	R	R	R	N/A
30	MS10-030Win KB 978542	R	R	R	R	N/A

- Compare **Security Updates** against latest revision of 3BSE041902 *Microsoft Security Updates Validation Status for IIT System 800xA.*

# My Control System Performance Status Report



Legend:

Checks Passed
Checks passed with Warnings
Checks with Failures
Not Applicable

No.	CheckItem	137.38.30.9	ACS1-6004-01	ACS2-6004-01	CS2-6004-01	CS4-6004-01	CTM1.137.38.100.001	CTM1.137.38.100.002	CTM1.137.38.100.003	DCSMP-1	DCSMP-2	SPIC6004A01	CS2-6004-01	WPA1150V
<b>Components Check</b>														
1	Operating Card Hardware Drivers	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
2	Hard Drive Installation and Utilization	N/A	R	Y	Y	Y	N/A	N/A	N/A	Y	Y	0	Y	0
3	Hard Drive File System Integrity	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
4	Network Adapter Configuration	N/A	R	R	R	R	N/A	N/A	R	R	R	0	R	R
<b>Windows Domain Check</b>														
5	OS Diagnostic Check	N/A	N/A	N/A	N/A	N/A	N/A	N/A	R	N/A	N/A	N/A	N/A	N/A
6	OS Name Resolution Check	N/A	R	Y	Y	Y	N/A	N/A	R	Y	0	Y	Y	0
<b>Windows Check</b>														
7	Auto-Start Processes Check	N/A	R	R	R	R	N/A	N/A	Y	Y	0	Y	Y	Y
8	Mandatory Third Party Software Installations	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
9	Mandatory System Security Settings and Time Zone Settings	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
10	Mandatory User Specific Regional Settings	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
11	Configuration of Time Synchronization Protocols	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
12	Uniqueness of Computer System ID	N/A	0	R	R	R	N/A	N/A	0	0	0	0	0	0
<b>Resource Check</b>														
13	RAM Installation and Utilization	N/A	Y	0	0	0	N/A	N/A	0	0	0	0	0	0
14	Windows Processes	N/A	0	0	Y	0	N/A	N/A	0	0	0	0	0	0
15	Windows Service Status	N/A	R	R	R	R	N/A	N/A	R	R	0	R	R	0
16	Windows Time Synchronization	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
17	CPU Utilization	N/A	0	0	0	0	N/A	N/A	0	0	0	0	0	0
<b>Network Check</b>														

- Validates hardware and software components and runtime parameters against system requirements and best practices.
- Data collection may take some hours, depending on system size.

# My Control System Performance Status Report

- Hardware Components
  - Graphic card hardware requirements
  - Hard disk file integrity
  - Network adapter settings
- Resources
  - Hard disk utilization
  - CPU utilization
  - Total memory utilization
  - Processes resources
  - Services states
  - Time concurrence
- Windows Domain Controller
  - Diagnostic check
  - DNS name resolution
- Windows configuration check
  - Auto-start processes
  - Mandatory 3rd party software
  - Regional and time zone settings
  - Time synchronization settings
  - Uniqueness of computer system ID's
- Network check
  - Throughput performance to all computers
  - Throughput performance to all AC 800M controllers
  - Diagnostic check
- Aspect Directory database check
  - Structure consistency
  - Replication, size and licensing
- Error log check
  - Connectivity servers
  - Windows event logs

# My Control System Performance Status Report

[illegible]

- The findings are listed per on a per node basis.
- Yellow fields indicate warnings or uncertain values which require further analysis.
- Red fields indicate problems.
- Technical background is given in the ABB Expert Workshop E144.

# Q&A

# Using My Control System for Advanced Control System Management

If you have further questions , please contact me at:

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COMPANY	ABB, Inc., Control Technologies
CONTACT PHONE	(440) 585-5167 <office> (440) 391-2237 <mobile>
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Power and productivity  
for a better world™

