Verify control system security policy compatibility
Security Policy Validation

Security Policy Validation Services assure that your ABB control systems are compatible with existing security policies; and changes to the system, to comply with your security policies, are performed without disruption to operation of the plant.

Benefits
– Provides protection from intrusion and malicious software
– Reduces potential for system disruptions due to implementation of maintenance security patches and settings by testing on an off-line system
– Ensures security policy compliance with government or corporate objectives

Due to heightened regulatory environment, process control system security policies are no longer optional. Security compliance is mandatory for many industries. Mandates may be driven by government and industry regulations or North American Electric Reliability Corporation (NERC) Critical Infrastructure Protection (CIP) compliance.

Security Policy Validation Services are available to test the compliance of your control systems once the appropriate policies have been designed.

ABB validation engineers manage the process of determining and correcting policy upgrades that may compromise system functionality. The validation service includes a compliance audit, compliance testing and remediation. These steps will ensure your control systems meet your company security standards.

Compliance audit
ABB audits and documents the condition of the automation system, using specialized tools and reports, to identify configuration settings not compliant with security policy standards. Audited systems may include interconnections to third-party systems, such as historians.

Compliance testing
Testing includes set up an off-line system, based on your plant system architecture, and testing for compatibility of software and system architecture. Our validation engineers will investigate alternatives if current products are incompatible and prepare a report of results and recommendations for remediation.

Remediation
ABB will communicate recommendations with site team, and schedule an appropriate time for implementation on site. Some software upgrades and major system changes may require additional proposals, based on the scope of work and software required to bring the system into compliance.

Final testing of all changes in the operating environment will be conducted followed by a final report of 'as delivered' changes.

Service availability
ABB Security Validation Service is available for the following ABB control systems:
– Extended Automation System 800xA, including Connect products:
  – Harmony Connect
  – System Six DCI Connect
  – MOD 300 Connect
  – PLC Connect
– Symphony Harmony/INFI 90

Optional On-going Compliance Support
Over time, intentional or unintentional changes may affect compliance, i.e.: replacement of PCs, reloads, upgrades, new threats and other causes. Because of this, it is recommended to include a security policy review as part of your annual maintenance program. Periodic reviews may be delivered via remote services or on-site visit. Other services include:
– Periodic audits to verify settings
– Scheduled update support services
– Implementation of policy requirements of new equipment
– Automatic notification, maintenance and installation software revisions, service packs, Microsoft® updates, etc.

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Other Support Services
– Training of security responsible personnel
– Assistance with creating procedure documents for loading computers with correct settings

Related Services
For additional information regarding the following services, contact your ABB Service Account Manager or call the North America Customer Service Center.
– Software Back-up Service
– Patch Management Service

Activities summary

Phase 1: Compliance audit
– Review policies. If non-existent, provide ideas and resources for development - provide samples
– Review architecture
– Look for other issues such as semAPI connections outside of policies
– Audit with automated tools
– Create spreadsheet with comparison of required vs. actual
– Prepare report

Phase 2: Compliance test
– Setup representative system architecture
– Load all products
– Test required security settings
– Investigate alternatives if current products are incompatible
– Prepare report of results with recommendations for remediation
– Invite customer to observe demonstration of results
– Testing can include non ABB products under some circumstances
– Customers may wish to participate in some way or witness the final results

Phase 3: Remediation
– Schedule implementation
  – Often changes can be done with no impact on operations, but caution is advised, depending on the process
  – Depending on the changes identified, outage may be required, e.g. software upgrades
– Implement changes on site
  – Most changes can be made with group policies if the system is in a domain
– Final test of all changes in the operating environment
– Prepare final report of 'as delivered' changes

Network architecture
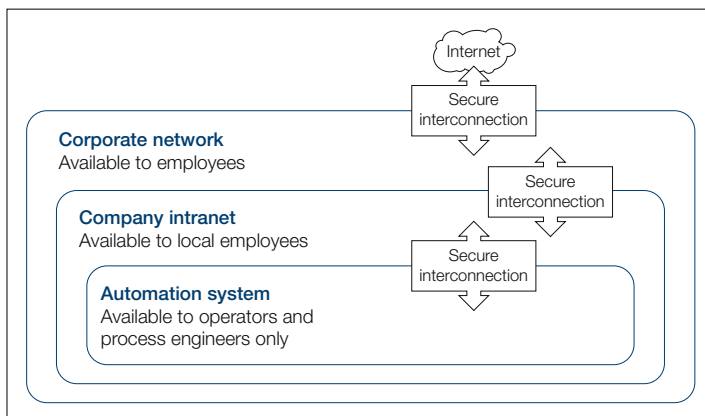
The key is knowing the architecture and identifying connections outside of your policy. Segmenting between zones can be accomplished with physical security and network separation or with attention to cyber security

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Control System Security Policy Validation

What type of operator consoles are in use:
☐ 800xA ☐ Conductor NT
☐ VMS ☐ PPB ☐ other_____

Number of servers _____

Number of clients _____

Windows operating systems installed on computers:
☐ Windows 2000 ☐ Windows 2003 Server
☐ XP ☐ Other _____

What ABB application version is installed?
☐ 800xA ☐ Conductor NT
☐ PPB ☐ Other _____

Is system connected through ☐ routers or ☐ firewalls
to the ☐ corporate network or to ☐ the Internet?

Is antivirus software installed? ☐ Yes ☐ No

Are you interested in:
☐ software backup or ☐ patch management services?

....

Company Name

....

Site Name

....

City   State   Zip

....

Your name   Phone no.

....

E-mail

....

ABB contact name

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