

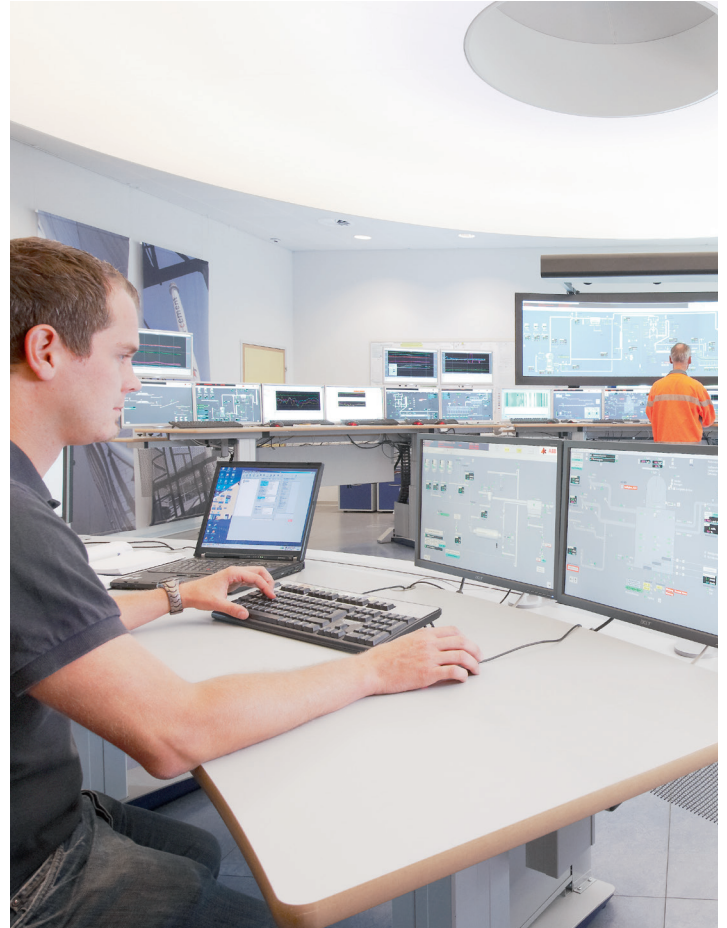
Cyber Security Monitoring Service

Protect control systems against potential security threats

ABB Cyber Security Monitoring Service, powered by ABB ServicePort™, identifies, classifies and helps prioritize opportunities to improve the security of your control system. To find security weaknesses within your system's defense, ABB Cyber Security Monitoring Service collects system data for comparison against industry best practices and standards. This not only pinpoints areas that require action, but also helps protect your control system by ensuring it has multiple layers of security.

Features:

- Automatic, non-invasive data gathering with ABB's proprietary Security Logger
- Proactive analysis of Key Performance Indicators (KPIs) to detect possible security weaknesses
- On-demand analysis before or after maintenance and shutdowns
- On-site or remote access, powered by ABB ServicePort, for customer personnel and ABB support
- Twice-a-year performance analysis by ABB experts identifies issues, finds trends and helps maintain elevated security
- Configurable alerts (via email or SMS) are supplied when KPIs are outside site-specific thresholds



Benefits:

- Improves system availability through reduced security risk
- Accelerates problem solving by providing visualization and analysis of security policies and computer settings
- Configures security settings to align with site-specific needs or corporate requirements
- Identifies trends to help develop mitigation plans for the most common security weaknesses
- Reduces response time and travel expenses by providing remote access to ABB experts for troubleshooting
- Ensures continuous improvement of your security status and compliance with your settings and procedures

Protect your control system

Scheduled or on-demand monitoring of KPIs

Automation security

Layers of cyber security protection

- Physical security
- Procedures and policies
- Firewalls and architecture
- Computer policies
- Account management
- Security updates
- Antivirus solutions

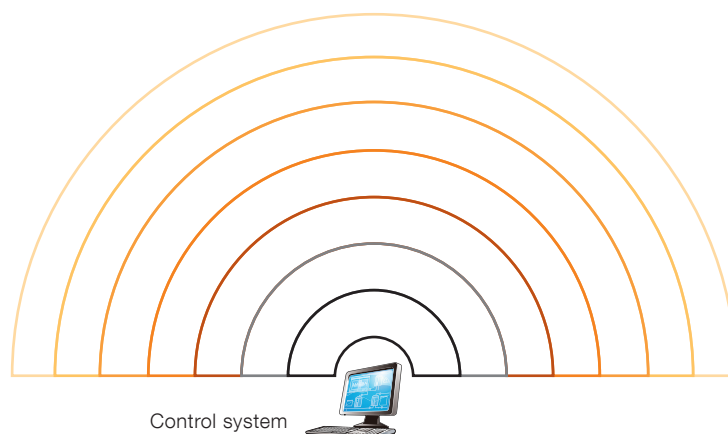


Figure 1: ABB uses the Defense in Depth strategy to ensure you have multiple layers of protection.

Scheduled monitoring and analysis to quickly identify vulnerabilities

ABB Cyber Security Monitoring Service is accessed through ABB ServicePort, a service delivery platform conveniently deployed on any control system at your location. You can view data gathered through a web-based window (channel) that is easily accessible by customer or ABB personnel.

With ABB Cyber Security Monitoring Service, you get the advantage of scheduled or on-demand security monitoring and data analysis to greatly reduce the time and effort needed to uncover weaknesses within your security procedures, system policies and computer settings. Data are classified based on your specific KPIs to provide a list of problematic items that are then prioritized based on severity, criticality and/or financial impact. Monthly profile updates are provided to ensure security data are assessed against the latest security settings. This analysis leads to informed, responsive decision making by your team, who can regularly and more easily ensure there are multiple layers of protection in place (Figure 1).

More accurate troubleshooting with configurable KPIs

ABB Cyber Security Monitoring Service analyzes the following KPIs to accelerate problem solving:

- **Procedures and protocols:** Availability of, and agreement to, written instruction and policies.
- **Security policies:** Compliance with policies implemented on the system, enforced from a central server or implemented on an individual computer.
- **Computer settings:** Assurance that the appropriate settings and applications reside on each computer in the system.

View, analyze and receive alerts on security status Cyber Security Monitoring Service components

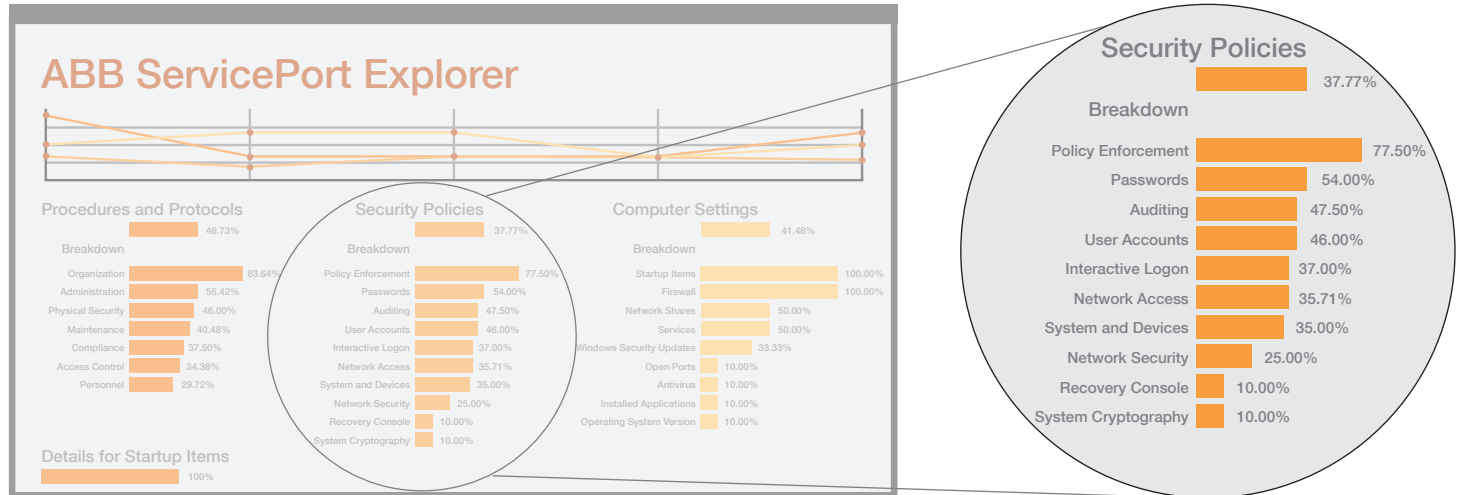


Figure 2: Through the ServicePort Explorer, you can access three different views for each of your KPIs. The above example shows the KPI analysis view for security policies. The display only shows the KPIs that are outside their threshold and prioritizes them—the bigger the bar line, the greater the need to address the KPI.

Simplified view of data and analysis

Access to and visualization of KPI data is provided through ServicePort Explorer. This easy-to-use interface provides three separate views of the data (Figure 2):

- **Raw data** allows you and ABB service experts to view data associated with specific computers and control system settings.
- **KPI analysis** presents a summary of KPIs, ranked by severity, that shows out-of-whack system settings and missing security protection on specific computers.
- **KPI monitoring** empowers you to specify your own set of rules for KPIs and displays each occurrence that falls outside a threshold.

Critical notification when it matters most

To help prioritize issues that require immediate action, site-specific rules are applied to targeted KPIs. Any KPI that tracks outside of pre-determined parameters (such as missing Microsoft security updates) triggers an instant alert by email or SMS. This quickly identifies issues that can compromise security so you can address them as soon as they are detected.

Expert analysis helps predict potential weaknesses

To ensure that your cyber security status is aligned with your security goals, ABB provides periodic performance analyses. ABB experts evaluate the status of your system's security level, determine the statistical accuracy of KPIs and find trends that predict potential vulnerabilities. The resulting performance report (Figure 3) recommends actions to improve procedures and protocols, system policies and computer settings.

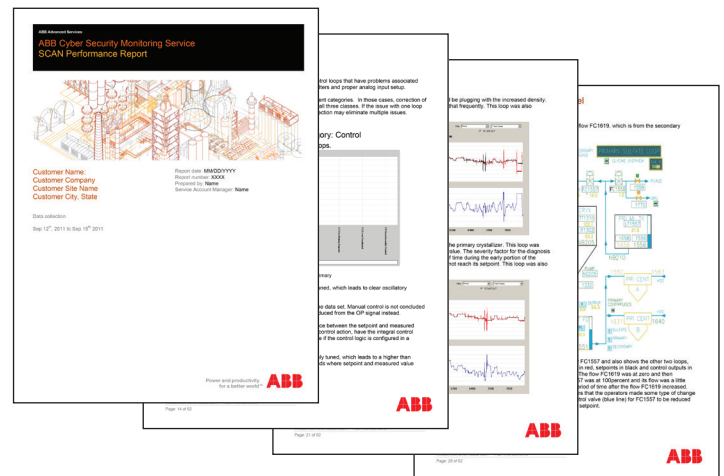


Figure 3: Included in your service agreement are periodic performance reports, which point to actions that will help prevent potential problems.

Secure connection for delivery of ABB services

On-site or remote access for customers and ABB experts

ABB ServicePort

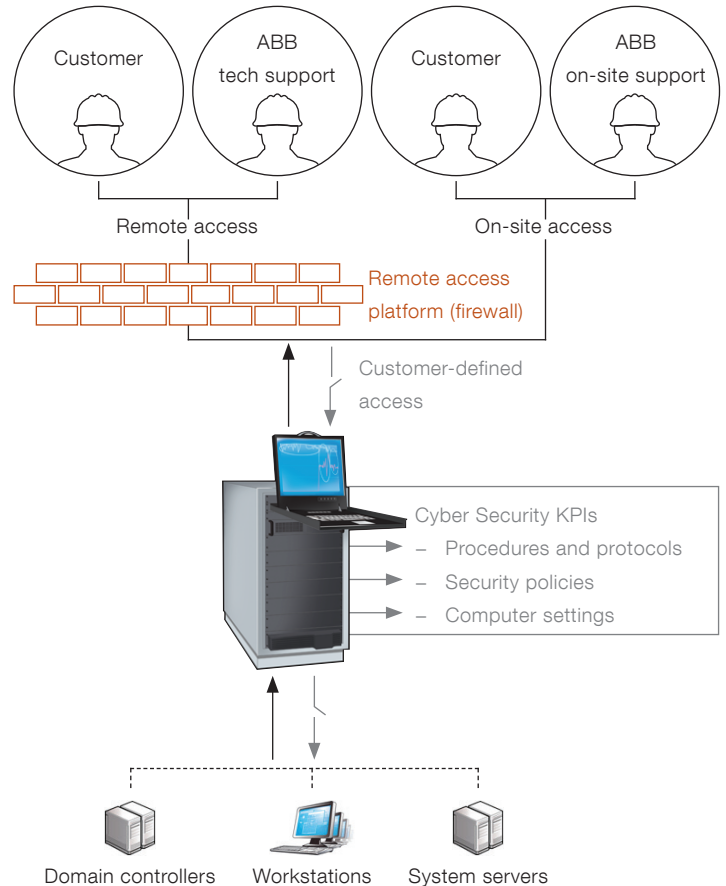
ABB ServicePort is a remote-enabled, service delivery platform that provides a custom, secure connection to ABB services and experts. Deployed at a customer location, ServicePort enables delivery of local and remote services and provides both customers and ABB service experts a real-time view of KPIs and diagnostic and system security data (Figure 4). Data collected from the service channel is highly secure as it remains on-site and requires user identification to view. Choose from ServicePort (integrated workstation), ServicePort Rack, ServicePort Mobile or ServicePort Mini.

Performance Services are available for:

- 800xA
- Harmony
- Loop
- Mine Hoist
- Quality Control System (QCS)



ServicePort Rack pictured above.



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Figure 4: ABB ServicePort links ABB services with your equipment and processes via on-site visits or remote connection. ABB Cyber Security Monitoring Service connects to any control system. You control access to the data collected and stored within ServicePort, as well as to the control network via ServicePort.

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