ABB Ability™ Cyber Security Services
In today’s business environment, cyber security is critical when ensuring reliability of Industrial Automation and Control Systems.

ABB Ability™ Cyber Security Services mitigate cyber risks by identifying potential threats, automating compliance efforts and defending against cyber-attacks.
Protect your automation assets from cyber-attacks

Cyber threats are real and every industry is facing increased risk of cyber-attacks. Malicious attacks have caused losses of hundreds of millions of dollars to companies globally, and threat actors continue to find new ways to attack information and operational systems. To protect assets, processes and people from this imminent danger, companies must develop a cyber security strategy, and integrate cyber security measures into their existing processes.

Cyber-attacks companies are most likely to face

<table>
<thead>
<tr>
<th>Socially engineered threats</th>
<th>End-user is tricked into installing a malicious program or giving away sensitive information</th>
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<tbody>
<tr>
<td>Phishing attacks</td>
<td>Skillfully crafted email in which a user clicks on a link or attachment, from which an attack is launched.</td>
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<tr>
<td>Unpatched software</td>
<td>Unpatched systems are compromised with ease due to exploitable vulnerabilities</td>
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<td>USB and other removable media</td>
<td>Media infected with malicious software is plugged directly into control systems networks bypassing security controls</td>
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<td>Advanced Persistent Threats (APT)</td>
<td>Sophisticated zero-day exploits are used by APT’s to go undetected</td>
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Steel Mill, Spain

Needed visibility of control system cyber security status and ensure software and antivirus programs were up-to-date.

We met that need with ABB Ability™ Cyber Security Fingerprint

Helped to identify vulnerabilities and develop a lasting security strategy.
Many attacks are successful because the virus or malware can quickly move across the network from one host to another using credentials from a common set of credentials.

To minimize the impact of these attacks, it is important to have multiple layers of cyber security protection.

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**Adopt a defense-in-depth strategy**

**Layers of cyber security protection**
- Physical security
- Procedures and policies
- Firewall and architecture
- Computer policies
- Account management
- Security updates
- Antivirus solutions

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**Specialty chemical facility, USA**

Needed a solution to automatically deploy the latest malware protection and security updates across all control systems.

We met that need with **ABB Ability™ Cyber Security**

**Basic Controls**

Increased security with continuous up-to-date protection while reducing manual work.
Strengthen security with a complete portfolio of cyber security solutions

ABB provides a range of cyber security solutions that minimize cyber risks and provide the highest level of protection for automation assets. ABB cyber security solutions have been uniquely developed for industrial systems like yours.

Assessments
Gain an understanding of the cyber security posture of your system(s)

Security Controls
Defend against fundamental threats by implementing cyber security controls

Training
Reduce incidents by equipping your team with cyber security insight

Maintenance
Ensure continuous protection of your automation systems using our skilled industrial cyber security engineers

Consulting
Implement your cyber security projects using our global network of industrial cyber security experts

Security Operations
Leverage our global network of experts through ABB Collaborative Operations Centers for 24/7 continuous monitoring and support

ABB addresses cyber security at each phase of an automation asset’s life cycle, from design and development to operations and maintenance. We work with our customers to develop processes that ensure the highest level of protection for all automation assets against cyber-attacks and security breaches.

We follow a process that includes identifying what must be protected, actively protecting the automation assets, detecting security breaches, responding to cyber-attacks and establishing backup and recovery plans. We also work with our customers to restore systems and recover information in case they are impacted.
Why ABB Ability™ Cyber Security Services

We bring three key areas of expertise:

People
Whether you need help implementing a cyber security control, making changes to your architecture, or writing a security policy, our local industrial cyber security experts are available. We can help with specific projects of any size or offer a flexible consulting program to fit your needs.

Process
All our cyber security solutions and projects are executed by industrial cyber engineers and experts following carefully designed steps to ensure accurate and efficient deployment with minimal impact to production.

Technology
ABB has partnered with several companies to bring the best cyber security solutions to our customers. We have also developed our own solutions where the available ones aren’t ideal for the industrial space.

Chemical Company, Germany

Client needed someone to make sure that their security controls remain effective over the year

We met that need with
Cyber Security Maintenance

With ABBs help maintaining the security controls, the customer personnel were able to focus all their attention on the production
Let us help meet your cyber security needs

ABBs cyber security solutions can help you in multiple ways:

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<th>Cost savings</th>
<th>Get more done with your current budget by outsourcing cyber security</th>
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<td>Compliance</td>
<td>Leverage ABB to help meet all or part of your regulatory compliance requirements</td>
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<tr>
<td>Resilience</td>
<td>Increase the availability of your production systems with stronger cyber security</td>
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<tr>
<td>Competence</td>
<td>Increase your own team’s competence or tap into ABBs team of industrial cyber experts</td>
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<tr>
<td>Planning</td>
<td>Use our assessments to plan upcoming work and maximize your return on investment</td>
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Main benefit for each cyber security solution:

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<th>Maintenance</th>
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Power & Water Company, Oman

Customer needed to quickly meet new mandatory regulation

We met that need with **Cyber Security Consulting**

Complete re-architecture of existing network with layering, DMZ, secured perimeters, moving to centralized domain across control systems
Make your assets cyber-secure today
To get started or learn more, please contact your local ABB sales representative or visit:
—
abb.com/cybersecurity