—

ABB Ability™ Cyber Security Services
Identify threats. Enable compliance. Improve reliability.

Over the last few years, water and wastewater operators have suffered a range of attacks, including ransomware, tampering with industrial control systems, manipulating valve and flow operations, as well as other efforts to disrupt and potentially destroy operations.*

To cope with these challenges, cyber security must be focused on managing risk by reducing the likelihood of an event occurring. As attacks against public water systems continue to rise globally, ensuring infrastructure security has become a top priority today.

* Joint FBI-CISA-EPA-NSA Cybersecurity Advisory: "Ongoing Cyber Threats to U.S. Water and Wastewater Systems"

Introducing ABB Ability™ Cyber Security

Consultancy, technology and services that **reduce cyber risks** before they harm your business.

The ABB Ability™ Cyber Security portfolio reduces cyber risks by implementing security controls with a defensible architecture, enabling customers to identify and address cyber threats before they can cause harm.
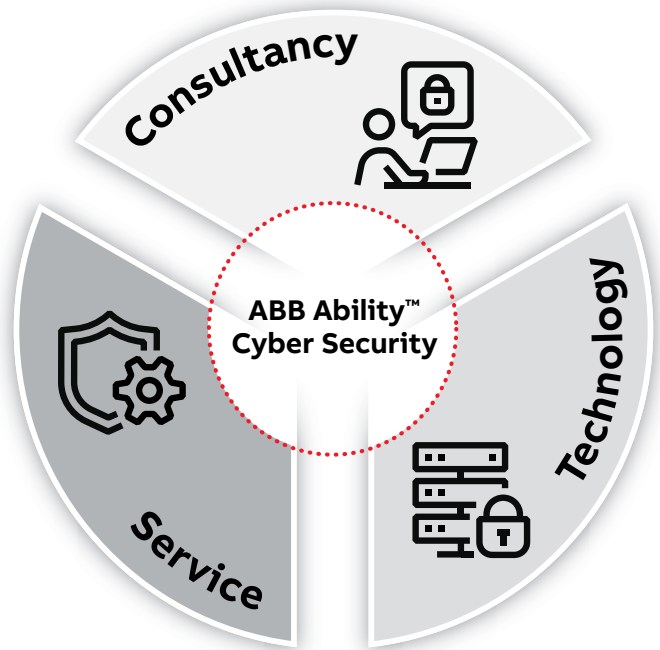
Solution Benefits

	Assessments	Basic Controls	Training	Maintenance	Consulting	Operations
Cost savings				●		●
Compliance	●	●	●	●		●
Resilience		●	●	●		●
Competence			●	●	●	●
Planning	●				●	

Comprehensive. Customized. Compliant.

Water and wastewater sector have unique and complex challenges, you need **a proven and specialized partner** to guide and minimize risks.

ABB's local industrial cyber security consultants are at your service. ABB offers bespoke cyber security consulting services to help you with projects of any size. We also offer a flexible consulting program to fit your needs.

ABB's industrial cyber engineers and experts have extensive experience with the complexities of cyber security, availability, compliance and safety.

This includes deep experience installing, operating, and maintaining cyber security controls at water facilities across the globe.

ABB consultants work with you to develop a plan to accomplish your goals with minimal impact on production, while applying industry best practices and methods. Our consulting offers require planning and delivery that is unique to your system.

Consultancy offerings

Assessments

ABB cyber security assessments help you better understand the strengths, weaknesses, gaps and risks in your cyber security posture through multiple standard and custom assessments, including:

• Fingerprints
• Risk assessments

Training

Training, awareness and education are crucial for effective cyber security. ABB delivers multiple training programs to meet your unique needs:
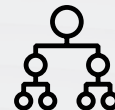
• Product training on how to secure our distributed control systems (DCS) systems
• Cyber security awareness training for your staff

Projects

ABB helps you with every stage of your cyber security project:

• Technology selection
• Technology deployment
• Policies and procedures
• Support audits
• Network design

Re-architecture

Implementing ABB's ICS Cyber Security Reference Architecture will:

• Update your operational technology (OT) network to the current standard
• Implement a secure area (aka demilitarized zone)
• Digitalization ready
• IEC62443 compliant

Defensible design

The ABB ICS Cyber Security Reference Architecture allows for secure interconnectivity, enabling digitalization without sacrificing safety.

The ABB ICS Cyber Security Reference Architecture is a proven and consistent approach to planning, implementing and deploying industrial control system networks using industry best practices and IEC standards. As a template solution, it provides a common vocabulary for discussing implementations, often with the aim of stressing commonality.

The ABB ICS Cyber Security Reference Architecture is vendor agnostic and based on the IEC 62443 control system security standard to create a secure area between the production and external systems.

While the architecture significantly improves cyber security posture, it is not a guarantee to pass external audits or that the system is secure.
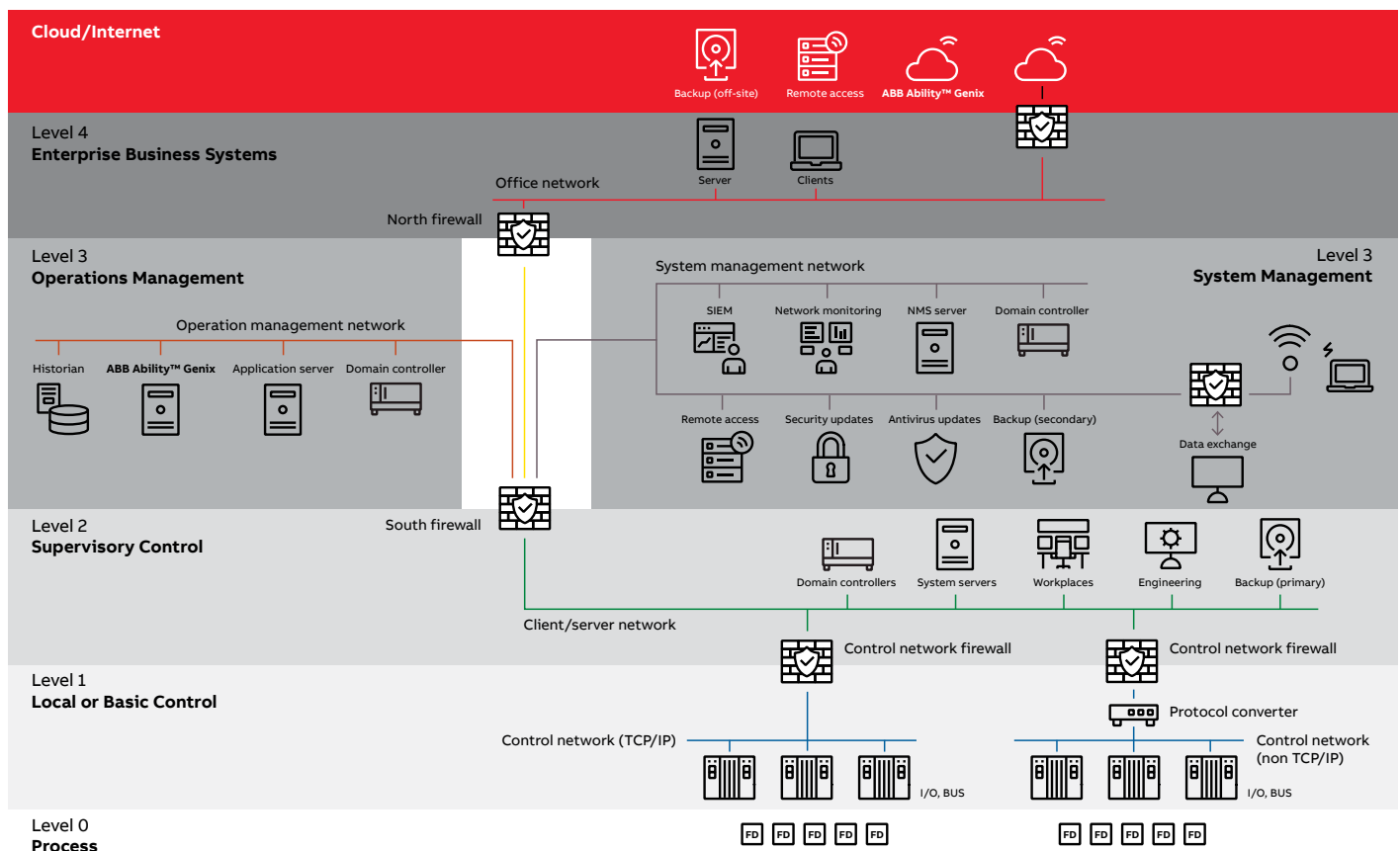
ABB's reference architecture adds a system management area in level 3 to help reduce complexity while maintaining security.

ABB Ability™ Cyber Security Workplace

ABB Ability™ Cyber Security Workplace automates security insights and defense. It gives security teams complete visibility by providing a consolidated view of all security controls in a simple and intuitive user interface.
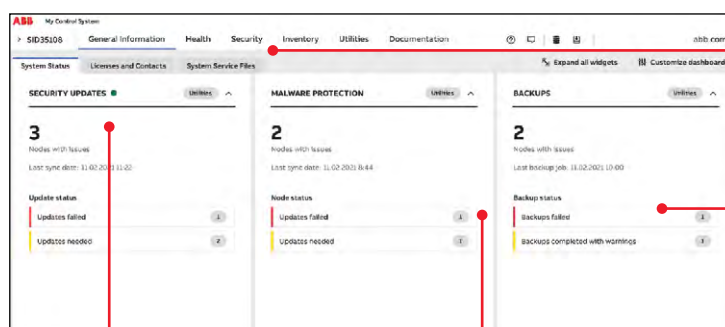
ABB Ability™ Cyber Security Workplace collects security-relevant data from ABB and third-party cyber security solutions and forwards it into a consolidated native application. Operators can seamlessly monitor the status of their security controls, perform maintenance activities to increase resiliency, and receive alerts with actionable insights to remediate threats and reduce risks.

ABB Ability™ Cyber Security Workplace makes it easy to cost-effectively reduce the risk of cyber security threats to production.

Security controls status dashboard

At the core of ABB Ability™ Cyber Security Workplace is a single dashboard that monitors your security controls, notifies you of increased risks, and guides you to steps required to protect your people, assets and processes.

• Easily accessible through **myABB/My Control System** to **eliminate the need for multiple security consoles**

• Designed to **scale with your security program** so you benefit from advanced controls without the lengthy learning curve

• **Simple and intuitive user interface** built for any and everyone

• **Flexible and customizable design** you fine-tune to fit your workflow

ABB Ability™ Cyber Security Event Monitoring

ABB Ability™ Cyber Security Event Monitoring enables your security team to more effectively detect, prioritize and respond to threats across your OT network. In turn, mitigating the impact of security incidents significantly.

Non-intrusive Event Collection

Access to Experts

Purpose-built Use-cases

Industrial Cyber Analysts

Flexible SIEM deployment

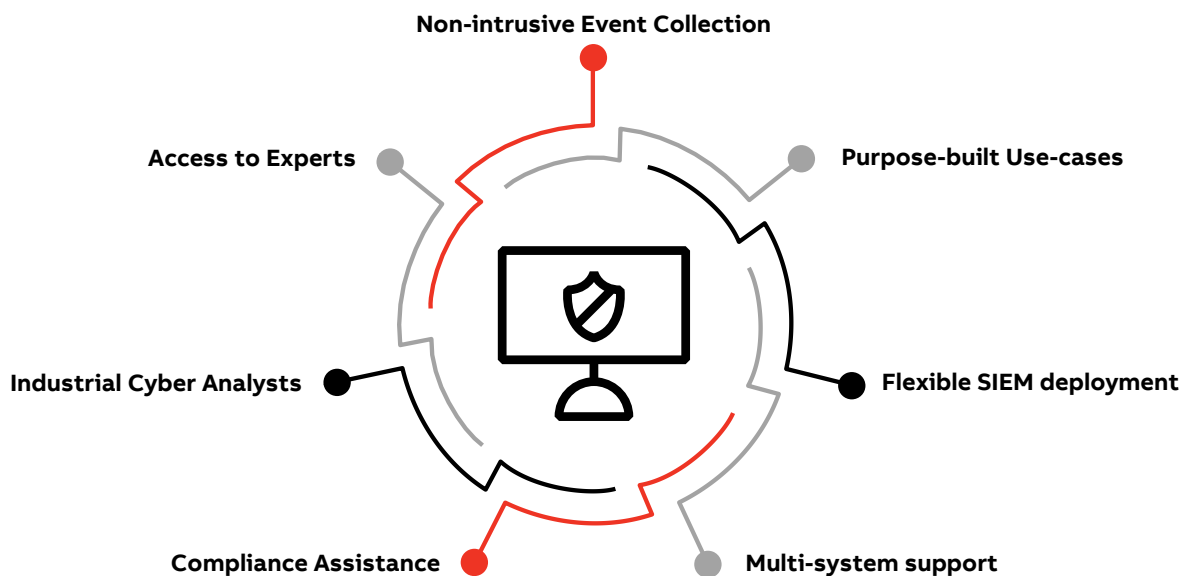Compliance Assistance

Multi-system support

ABB Ability™ Cyber Security Event Monitoring is the first to bring event monitoring to the industrial space, enabling your organization to focus on providing value to your end customer.

This unique solution leverages established information technology (IT) and processes, and applies them to the industrial space to expose potentially malicious activity. Our OT solution package in combination with IT technology solves many challenges posed by industrial systems that can't be solved with IT technology alone.

Incident response

ABB can also help you recover after an incident. Our industrial cyber security experts will work with your team or your other service partners to restore production while making sure that any forensic data is safeguarded for later investigation by your team or law enforcement teams.

ABB's Risk Reduction Roadmap

The **ABB Ability™ Cyber Security Services** is an all-in-one industrial cyber security package that helps utilities to minimize and manage the risk of a cyber attack.

Cyber security risk is about reducing the likelihood of such an attack happening and minimizing the negative consequences if it does happen. Each step of the Risk Reduction Roadmap is designed with these two objectives in mind.

These tools, along with assessments and our reference architecture, effectively manage cyber security risk while enabling digitalization and more efficient production.
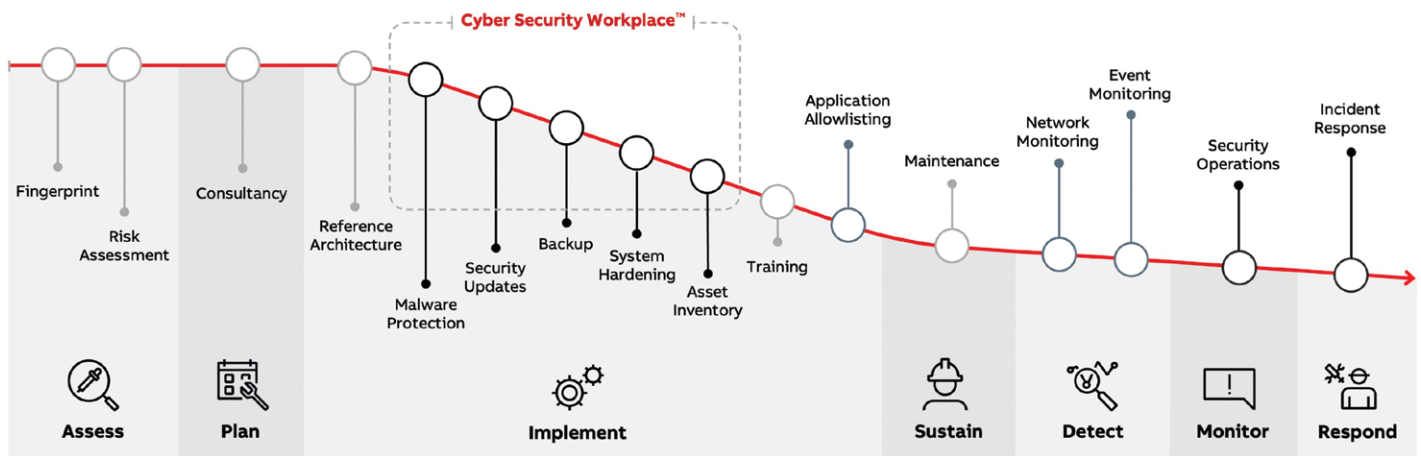
ABB's Risk Reduction Roadmap outlines the various security solutions and services provided and how they work together to reduce the risk of a cyber incident.

ABB cyber security extends support to San José wastewater treatment plant

The San José-Santa Clara Regional Wastewater Facility, recognized as the largest advanced wastewater treatment plant on the West Coast of the United States, operates continuously to purify Silicon Valley's wastewater and protect public health and the environment. The facility has been implementing innovative solutions and advanced technologies as part of its modernization drive to provide clean water and a sustainable future to its residents.

ABB was selected by the wastewater treatment facility to modernize the systems and solutions and implement a solid cyber security infrastructure while optimizing the water purification process.

ABB's experts collaborated with the customer team and developed a solution based on foundational cyber security controls.

- **ABB Ability™ Cyber Security Updates** that ensure the automated deployment of validated Microsoft security updates to nodes in the system.
- **ABB Ability™ Cyber Malware Protection** enables automated deployment of validated McAfee updates to nodes in the system.
- **ABB Ability™ Cyber Security Backup & Restore** provides a commercial backup solution configured to safely take backups from the DCS system.

The customer also chose to deploy **ABB Ability™ Cyber Security Fingerprint** to get a report of the current cyber security posture of the system, detect any gaps in the protection, and have a baseline for future reference.

READ MORE

"In our pursuit to innovate and implement cutting-edge solutions to improve efficiency at the wastewater treatment facility, ABB has been a trusted partner enabling us to continue in our journey to protect the environment, public health and safety of our citizens."

— Jerry Au, Network Engineer, City of San Jose Wastewater

Why ABB Ability™ Cyber Security Services?

ABB pioneered the development of electrical and automation technologies and has years of experience in helping customers protect control systems and other automation assets.

ABB's control systems are present globally across many industries. **We know the type of cyber threats our customers face and what needs to be done to mitigate risks.** We stay ahead of threats by investing heavily in research and development to continuously improve our security offerings.

ABB can support our customers throughout the lifecycle of their assets through our products, services and expert operations by making technology relevant to customers in the industrial sector.

ABB has a unique combination of **people, processes and technologies** to help ensure customers achieve cyber security objectives.

People

Experienced DCS engineers and industrial cyber experts across 50+ countries

Processes

Over 100 years of industrial experience and 30+ years of cyber know-how

Technology

To support 35K+ DCS systems installed worldwide throughout their lifecycle

Cyber security has become paramount due to escalating digitization, interconnectivity, cyber threats, regulatory mandates, heightened awareness of vulnerabilities, data protection concerns and reliance on technology. This prioritization is essential to safeguard critical infrastructure and maintain uninterrupted service delivery for utilities.

ABB

Make your assets cyber-secure today
To get started or learn more, please contact
your local ABB sales representative or visit:

LEARN MORE

9AKK107239