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Cyber Security for Industrial Control Systems



Bulletin 30A15A10-01E

A New Age of Controlling Security Risks

The spread of malware and increasingly sophisticated cyber attacks are causing even more serious damage.

The threat of cyber security risks extends beyond information technology systems and into control systems. The use of information technology systems has advanced control systems and helps reduce costs and provides more functions. However, we now need to tackle the security risks.

We are in a new age of controlling security risks. What are the proper security controls for control systems? How can damage be minimized?

There's a long way to go to achieve secure plant operations. You need to be well-equipped and have enough stamina to go down that road, and maintain an appropriate pace and be prepared just in case.

Who can be your partner with whom you can travel and grow with?

That partner shall understand that what you need is not only security controls but also the safety and security beyond them.

Your best partner is Yokogawa which knows everything about security controls for control systems.

Evolution of Yokogawa Control Systems



Evolution of Security Controls

Yokogawa's Way

Security Competence Laboratory

Yokogawa has research and development centers in Singapore, Japan, India, and the U.S. where technologies to apply security techniques to control systems in the best way are being developed. With a long experience of integrating control systems, these centers develop security techniques and solutions optimized to each industry, application, and system configuration. These results provide the foundation for helping customers securing their control systems against ever evolving security risks.

Contribution to Industries

Yokogawa's security experts have been actively participating in the development of international industrial standards from ISO, IEC and ISA such as IEC/ISA62443 (ISA99). Also, Yokogawa was one of founding members of the ISA Security Compliance Institute. In addition Yokogawa has been developing techniques and solutions for the purpose of security risk management to general networks. One of the achievements has been accepted and appreciated for the Internet.

Continuous Improvement of Technical Foundation

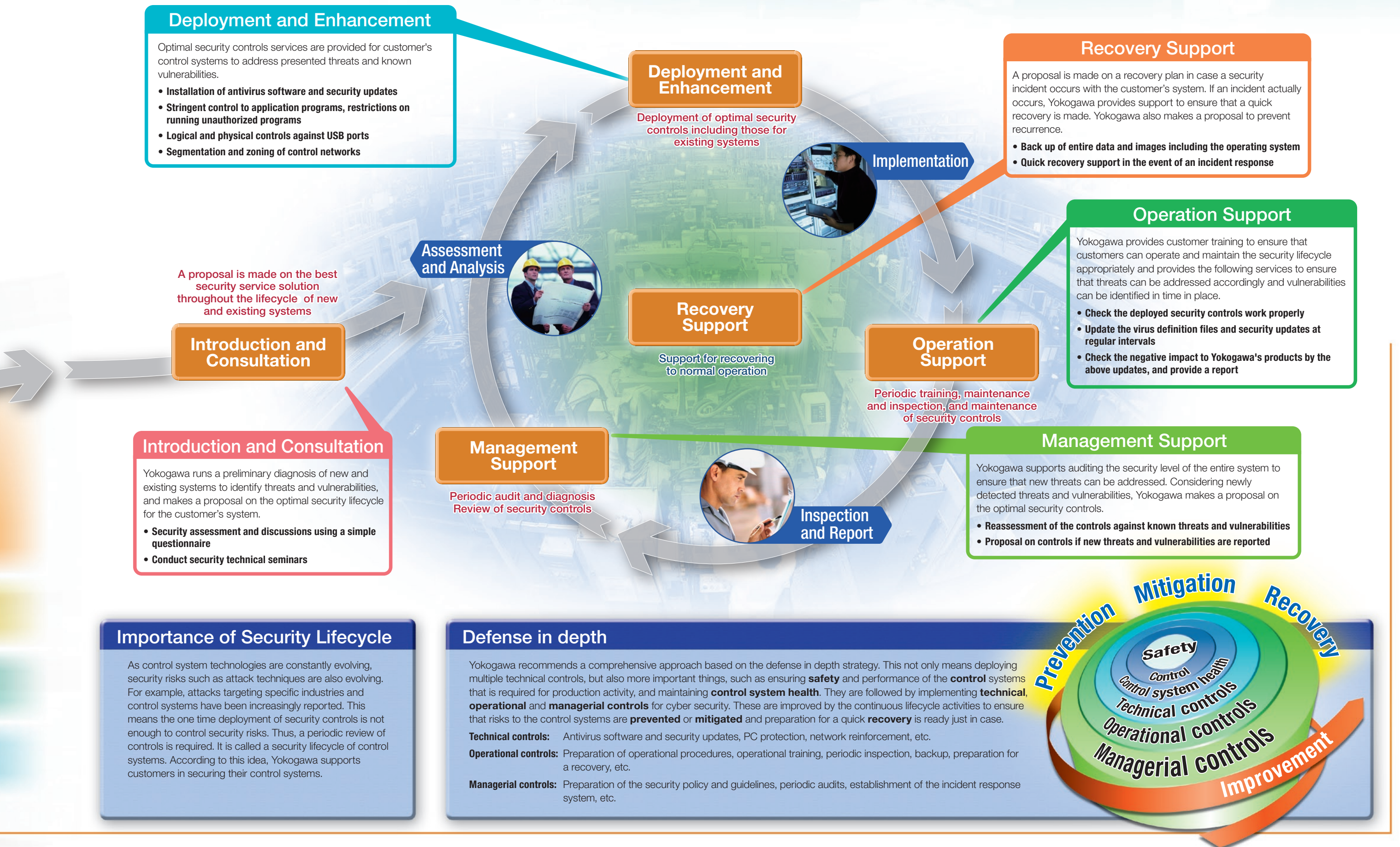
Security in Yokogawa Products

Throughout the product lifecycle, Yokogawa ensures vulnerabilities are reduced due to the architectures and technologies of systems and products. Yokogawa has established a framework and the dedicated workforce that allows for quick response to incidents concerning vulnerabilities and new threats. Also, Yokogawa continually improves the security level of the products by subjecting them to assessment by external security experts. Furthermore, Yokogawa obtains security certification for its control systems from a certification authority and updates it at regular intervals.

Best Practice

When implementing security controls, specific and requirements and operational conditions to the control systems shall be considered. Yokogawa has established best practices to implement security controls based on its long years of experience of delivering control systems and services to customers. These best practices are compliant with international and industrial security standards and are the foundation of high quality security service offerings by Yokogawa engineers over the globe.

Yokogawa's Security Lifecycle





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The clear path to operational excellence

SEE
CLEARLY

KNOW
IN ADVANCE

ACT
WITH AGILITY

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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