

Collaboration with Trellix OEM Partners

- Co-creation of Value with Yokogawa Electric Corporation

The increasing adoption of cloud computing in plants and the growing transition to smart factories necessitate connecting operational technology (OT) systems in plants to the Internet and external information networks, which, however, unavoidably increases exposure to the threat of cyber-attacks. Which means a plant is not a place immune to cyber-attacks anymore. Security measures are essential for OT systems operating in plants just as they are with IT systems.

However, many of the OT systems are generally optimized for manufacture, which makes it difficult and risky to ensure the compatibility and availability if security measures are introduced to the environment where OT systems are already in place. Therefore, Trellix supplies its security products as OEM products to vendors that supply their OT system products.

Yokogawa Electric Corporation, a Trellix partner for many years, offers a service to incorporate Trellix security products as OEM products into its systems including the integrated production control system for plants. Yokogawa incorporates Trellix security products into its products before they are delivered to its customers so the customers can use the products in a safe and secure manner as they are equipped with enhanced security features.

A security incident happening in a plant (OT system) can significantly damage not only the operation itself, but also the credibility of the company

As long as a variety of plant systems are operating offline or in an air-gapped state without connecting to the Internet and other external networks, the environment is immune to cyber-attacks. However, if a variety of plant systems connect to the Internet and other external networks as a result of the adoption of cloud computing and the transition to smart factories, the threat of cyber-attacks will grow.

Plant security incidents are on the rise. The spread of malware infection around the world is a trigger that is forcing manufacturing to slow down and shut down. OT systems affected by a cyber-attack can directly impact the operation and cause significant damage. The impact can go beyond the business and damage the credibility of the company itself.

Necessity of deploying security measures in plants and accompanying challenges

Productivity enhancement is, anytime and anywhere, the most important mission in plants. As plants are required to manufacture a large number of products with high quality, both hardware and software are optimized for manufacturing products as much as possible. Therefore, the deployment of security measures is often avoided as the burden on the system is increased. In particular, it is not easy to install security software afterwards. Since, in many cases, it is not enough to just install security software, you have to perform tuning and configure additional settings for both the system and security software.

This additional work requires adequate knowledge of both the system and security products. The work is difficult and may adversely affect the system. If the work is not performed properly, the system performance may deteriorate or the system may malfunction or crash in the worst case.

YOKOGAWA 
Co-innovating tomorrow™

Trellix offers embedded security products for OT systems around the world to help global companies build and sell systems with excellent security features.



We will work together with our customers to enhance security measures in order to help them reduce the burden as much as possible, concentrate more on their essential work, and continue operation safely and securely.

Yokogawa Electric Corporation

Co-creating value by incorporating Trellix products as OEM products

Trellix offers its security products as OEM products to vendors that supply their products to plants to solve security problems with OT systems.

Yokogawa is one of our partners that use our OEM products. Yokogawa offers a service to incorporate Trellix security products (OEM) into its systems including the ICSS (Integrated Control & Safety System). Yokogawa offers the service as one of its security solutions. From a quality and safety point of view, the software which is realized through this service is selected and verified by Yokogawa.

Yokogawa incorporates Trellix security products into its ICSS (Integrated Control & Safety System) with an optimized configuration as a security service when they are delivered to its customers. Therefore, customers can use the system with enhanced security features without complex deployment work themselves. Since the ICSS (Integrated Control & Safety System) can be protected against the threat of cyber-attacks, safety and stability can be ensured for plant operation and business.

The partnership between Trellix and Yokogawa has a history of many years. Trellix and Yokogawa signed a partnership agreement in January 2013 in order to provide a comprehensive high-value added IT security solution for the plant control system. Since then, Trellix and Yokogawa have co-developed Trellix OEM security products and began providing them in 2014. The number of OEM product deliveries is increasing year by year. Trellix and Yokogawa are increasing technological capabilities and co-creating value by sharing knowledge and complementing each other.

Yokogawa has selected Trellix as a partner not only because of the outstanding features and performance of Trellix security products, but also its strong achievement of global product distribution and excellent support system. Yokogawa's customers are located all over the world. And the customers have a concern which is the high risk of cyber-attacks to their plants, where global technical capabilities and support capabilities are required.

A Yokogawa said: "We have our customers reduce the time and effort wasted on security measures as much as possible so that they can concentrate more on production. Yokogawa will work together with our customers to enhance security measures by optimizing not only security measures for individual devices but also for the whole system to ensure our customers can continue plant operation safely and securely."

*The OEM product brand was renamed from "McAfee" to "Trellix" in 2022.



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