CASE STUDY

Executive summary
A leader in distributed control systems (DCS) and other plant facility-related systems, Tokyo-based Yokogawa Electric Corporation enables automated operation in plants and contributes to the development of a wide range of industries including oil, gas, chemicals, power, electronics and automobiles. As the company embraces the DevOps approach to application development, it faces new challenges that cannot be met with legacy monitoring tools. By deploying Splunk Enterprise, Yokogawa has not only overcome these obstacles but also achieved benefits including:

• Real-time, end-to-end DevOps visibility
• Heightened efficiency due to flexible and customizable use of data
• Enhanced quality and effectiveness by turning data into dynamic insights

Why Splunk
To build a solid DevOps infrastructure, Yokogawa has brought in two practical tools — Chef for process management and Jenkins for test automation. However, it still faced challenges with monitoring and troubleshooting issues in a context where highly distributed and interconnected applications generate an ever-increasing variety, velocity and volume of logging data. It needed real-time DevOps visibility.

After trying a few solutions, however, Yokogawa was still unable to adequately analyze its various types of log data, while spending many man-hours to collect software development information. Developers had to export logs individually to Excel, then run analysis tools on source codes and report results manually, not to mention the inconvenience in sharing reports and insights across the company.

It was not until Yokogawa started using Splunk Enterprise that real change occurred. By integrating the software into its DevOps infrastructure and centralizing log data onto the Splunk platform, Yokogawa has successfully automated its data collection, analysis and reporting procedures, gaining proactive, end-to-end operational visibility on every DevOps process, and turning static data into dynamic insights.

Real-time visibility transforms software development and operations
Splunk Enterprise makes a real difference by generating Operational Intelligence across all stages of application delivery. Deployed on a
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