

PRESS RELEASE

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Yokogawa Releases Enhanced Version of CENTUM[®] VP R5.03 – an enhanced version of the company's flagship integrated production control system –

Yokogawa Electric Corporation announces the release of CENTUM[®] VP R5.03, an enhanced version of the company's flagship production control system platform.

Yokogawa is continuously developing and enhancing CENTUM VP as the foundation of its IA business's VigilantPlant[®] vision for operational excellence. In accordance with the strategies set out in the Evolution 2015 mid-term business plan, CENTUM VP has been enhanced with significant value creating new functions for process plant control and enterprise integration.

New Features Include:

1. Wide area communication (WAC) router for control via public communications networks
Yokogawa has developed a WAC router that enables a CENTUM VP system to remotely monitor and control equipment over a wide area network (WAN) established using public communication lines, satellite links, and the like. The WAC router provides the same high reliability and security as the Vnet/IP control network that is used with Yokogawa production control systems. It compensates for limited bandwidth and transmission delays by prioritizing communications based on data type and target. For added reliability, the router has dual

redundant communication modules. Each of these modules can be linked with the WAN by up to two communications lines. When two lines are employed, they may be of the same type or of different types, e.g. satellite link and fiber optic cable. The router enables reliable, secure and inexpensive monitoring and control of widely distributed facilities such as the production platforms and FPSO's in deepwater offshore oil and gas production, pumping and compressor station controls along pipelines, and wellhead, gathering treatment and separation facilities in the new shale oil and gas onshore fields.

2. Enhanced batch functions

The CENTUM VP R5.03 batch package^{*1} is based on ISA-88 and has enhanced functions that allow greater flexibility when accommodating changes in production procedures. The number of operating procedures has been increased and the recipe^{*2} procedure has been provided with additional levels of granularity, simplifying the process of making recipe changes. CENTUM VP R5.03 is thus ideal for companies that employ complex batch production processes and are engaged in such industries as foods, pharmaceuticals, and specialty chemicals.

^{*1} Used with batch processes that rely on the same facilities and equipment to produce a variety of products.

^{*2} A batch process recipe defines the manufacturing process for a specific product, specifying the requirements for items such as equipment, formulas, and procedures.

3. Easy integration with intelligent electric devices (IEDs)

CENTUM VP R5.03 supports the IEC 61850 communication protocol, which has been widely adopted in the electric power industry and manufacturing industries that operate processes with extensive electrical equipment and machinery. This latest version of CENTUM VP can integrate data from intelligent electric devices such as protective relays, switchgear, motor controls and power distribution equipment and can be used to monitor the operations at process plants whose electrical facilities have been designed based on the IEC 61850 standard. This allows better integration with the electrical equipment in process plants, eliminates the need for multiple systems in the plant and also enables the monitoring of electrical energy in process plants that allow for better plant energy management.

4. Eight-loop operation keyboard

A new keyboard has been released with sets of dedicated function keys that can be used to simultaneously adjust eight control loops. For graphic, alarm, and trending operations, there are also dedicated control keys, operation confirmation keys, window call-up keys, a total of 64 special function keys, and keys for alarm acknowledgement and key locking. This keyboard has been designed to make it easier for plant operators to perform their tasks.

Major Target Markets

Process control and monitoring applications in industries such as oil and gas, petrochemicals, chemicals, electric power, pulp and paper, pharmaceuticals, foods and beverages, iron and steel, and water supply and wastewater treatment

Applications

Control monitoring and integration of distributed facilities, process plants and manufacturing operations

Future Development

With CENTUM VP as its core platform, Yokogawa continues to develop the most scalable, flexible and operator centric of production control systems architecture. Yokogawa is expanding its range of comprehensive production control systems solutions for process industry and manufacturing markets which make it easy to integrate field, plant and enterprise systems with a single platform.

About VigilantPlant[®]

VigilantPlant[®] is Yokogawa's automation concept for safe, reliable, and profitable plant operations. It 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. Based on this concept, Yokogawa introduces a variety of solutions through its Safety Excellence, Asset Excellence, Production Excellence, and Lifecycle Excellence initiatives.

About Yokogawa Corporation of America

Yokogawa Corporation of America is the North American division of Yokogawa Electric Corporation and a key part of Yokogawa's global network of 25 manufacturing facilities and 88 companies spanning 55 countries. Since its founding in 1915, the US\$4 billion company has been engaged in cutting-edge research and innovation, securing more than 7,200 patents and registrations, including the world's first digital sensors for flow and pressure measurement. Industrial automation and control, test and measurement, information systems and industry support are the core businesses of Yokogawa. For more information about Yokogawa, please visit our website www.yokogawa.com/us.

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Yokogawa's global network of 88 companies spans over a total of 55 countries. Founded in 1915, the US\$4 billion company conducts cutting-edge research and innovation. Yokogawa is engaged in industrial automation and control (IA), test and measurement, and other business segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit our website www.yokogawa.com.