

The Virtual Test Function evolves your plant into a VigilantPlant

# **Efficient and uninterrupted production**



A complete PC-based control logic and HMI emulator that enables quick process changes while maintaining quality

- A process unit and its instrumentation must be added that requires changes to graphics and control logic.
- The schedule is always tight. Risks that lead to production delays or loss of quality must be kept be a minimum.

Typical frustrations

**Iypical** 

situations

- The need to install additional hardware and perform settings whenever changes are made.
- Existing configuration data cannot be utilized because the configuration tools are incompatible.
  - Safety controllers are not handled in the same way.

#### Traditional approach

### No extra hardware/work necessary





http://centum.jp

www.yokogawa.com







# **Efficient and uninterrupted production**

No change to operator work environment

#### **Traditional approach**

We found the hardware and now need to duplicate the currently running configuration, including the operator interface.

This is getting complicated..





The Virtual Test Function lets you use an existing configuration and choose which operator station to emulate.

Have the same user interface and control logic, all using the same engineering configuration tool.

#### Traditional approach

Oh...!
It looks like we'll need to change our safety logic configuration, too.

Can we locate hardware for that?

With so little time, that would be difficult...

## Safety controller supported in the same way



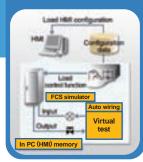


All safety functions can be tested and debugged in advance.



- All logic in the controllers and the HMI (human machine interface) are emulated on one or more PCs.
   The emulator is configured using the actual plant database.
- The Virtual Test Function provides a highly mobile environment that is useful for test, training and engineering.







The clear path to operational excellence



KNOW IN ADVANCE



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.

#### YOKOGAWA ELECTRIC CORPORATION

World Headquarters

9-32, Nakacho 2-chome, Musashino-shi, Tokyo 180-8750, JAPAN

http://www.yokogawa.com/

#### Trademarks

All brand or product names of Yokogawa Electric Corporation in this bulletin are trademarks or registered trademarks of Yokogawa Electric Corporation. All other company brand or product names in this bulletin are trademarks or registered trademarks of their respective holders.

