

MitsDMA47 - Schad Blackberry Demo

Mitsubishi Electric in Europe has searched for a number of technology partners offering innovative thinking, smart products and expertise to expand the advanced communication and control architecture of our factory automation systems.

This solution from Schad in Hamburg allows the end user to fully interact with a factory automation system via a Blackberry, adding an immediacy and flexibility to monitoring and control tasks that has not been possible before now.

What follows is a live demonstration of the system in action.

(Replace the entire finger sequence with the diagram jpeg provided)

This diagram shows the network structure; a situation changes on the shop floor, in this demonstration a Mitsubishi G.O.T, H.M.I terminal is used to display the changing status of the plant. Once a trigger event occurs, the signal is passed through the system controller, in this case a Mitsubishi FX-3 P.L.C. The message is sent via a local server, over the Blackberry network, through to the handset. The high data interchange rate of the connection with the Blackberry (a safely encrypted 256 bit signal), means the alert happens instantly and the commands are given and executed in real-time.

The plant activation is represented by the spinning disk; the touch screen starts the plant.

A fault status is then created, the disk stops spinning and the fault message arrives virtually instantaneously as a text message on the Blackberry.

The latest generation of hand held communication devices combine the functionality of a hand held PC with the connectivity of a phone and high-speed modem. Wherever the operator can get mobile reception (which is currently most of the populated western world), he can now stay up-to-date with plant performance.

The message identifies the motor that has stopped working and requests an action to be taken, in this instance, the operator is able to confirm the motor is OK and restart the process.

By using a Blackberry to interface with the plant and using the FX P.L.C as the gateway to the system, users can make changes to production schedules, respond to, diagnose, and make adjustments based on alarms set to trigger on any number of pre-set performance parameters or fault conditions.

The main innovation of the "Extend 7000" system is cross platform integration; A SCADA layer hosted on a local server connects directly to factory PLC's. The result is real-time interaction with the PLC's functionality, via simple easily executable commands, from anywhere on site or indeed from another country.

The system has proved extremely popular with large production sites and businesses such as utility companies where the engineering and maintenance teams have to monitor and maintain many remote sites such as local pumping and processing sites. The possibilities for the application however, extend as far as you can imagine.

Mitsubishi Electric Europe B.V. is a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan, and represents over a 30 year history of sales, service and support of automation products within the European market place.

* Exchange rate: 125,93 Yen = 1 Euro as of 31.3.2010 European Central Bank

Further Information:

www.mitsubishi-laser.eu

www.creating-productivity.com

<http://global.mitsubishielectric.com>

Editor Contact

DMA Europa Ltd. : Roland Renshaw

Tel: +44 (0)1299 405454

Fax: +44 (0)1299 403092

Web: www.dmaeuropa.com

Email: roland@dmaeuropa.com

Company Contact

Mitsubishi Electric Europe B.V. : Hiroshi Hasegawa

Tel: +49 (0)2102 486-4940

Fax: +49 (0)2102 486 7090

Web: www.mitsubishi-laser.eu

Email: hiroshi.hasegawa@meg.mee.com