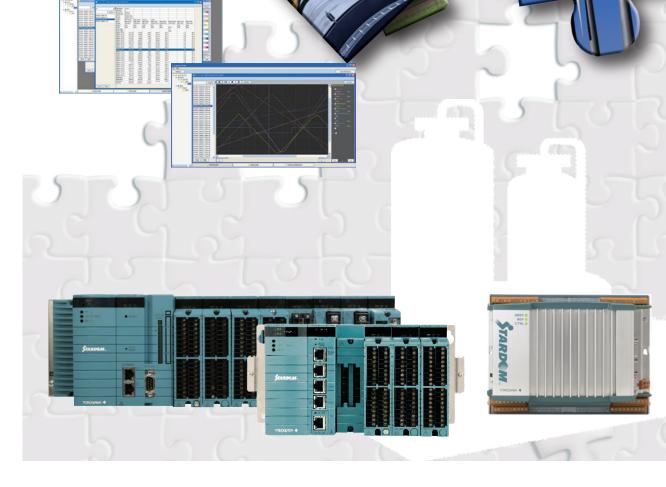
Network-based Control System STARDOM



InfoWell

Information Processing and Transmission Package

InfoWell is a software package running on the autonomous controller FCN/FCJ. It provides web graphics, data logging and e-mailing of alarms.

InfoWell provides the user with the ability to view control application data on the FCN/FCJ remotely using the embedded Web server, e-mail and Java functions.

Graphics are created using an intuitive graphic building tool and the user does not require any programming knowledge or skills to make use of InfoWell functionality.

Bulletin 34P02P51-01E

http://stardom.biz





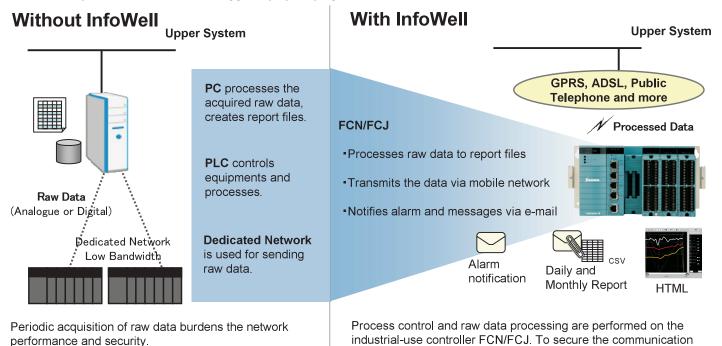
What is InfoWell?

Enjoy the latest IT Technology on the controller without programming

InfoWell is a software package that runs on the autonomous controller FCN/FCJ.

While control applications are running on FCN/FCJ, InfoWell processes and transmits control applications data using PC-oriented IT technologies embedded on the controllers, such as Java, Web and e-mail.

In spite of using Java technology, InfoWell does not require any Java programming skill. Graphic windows are automatically created and data are logged by specifying data to be monitored.



required.

Your Benefits

Minimize Cost for Remote Control and Monitoring

To connect the upper system with secured communication

performance, data acquisition PLC is often required.

With the conventional system, PC-based Human Machine Interface (HMI) acquires and processes the raw data. However PCs are unreliable in harsh or remote conditions and maintaining PCs and HMI software by patching and updating them increases the Total Cost of Ownership (TCO).

With InfoWell, process data and equipment status are monitored on the Web browser by connecting the PCs with FCN/FCJs whenever they are needed. And report files created on FCN/FCJs are automatically transmitted by using ftp functions embedded in FCN/FCJs. Due to the integration of PC and PLC functions, FCN/FCJs contributes to cost reductions in control infrastructure.

Improve Maintenance Efficiency

With a conventional system, process and equipment data are logged on PCs or SCADA. Maintenance people monitor the current equipment status with hand terminals and calls the maintenance center to get the past and current equipment status.

With InfoWell, process and equipment data are not only logged but also daily and monthly reports are automatically created on FCN/FCJ. A maintenance person inspects equipment by referring to the past trend data and current status on Web browser in the field.

Agile Action in Unexpected Situation

With a conventional system, the operator or maintenance person monitors the fields 24hours, 7days a week to avoid unexpected situations. They keep informing the maintenance person about the equipments status.

With InfoWell, detection of unexpected situations can be notified to the maintenance person directly from FCN/FCJs via e-mail at an early stage. Even if an unexpected situation occurs, they can analyze the cause of the equipment malfunctions by referring to Sequence Of Event (SOE) files.

SEE CLEARLY

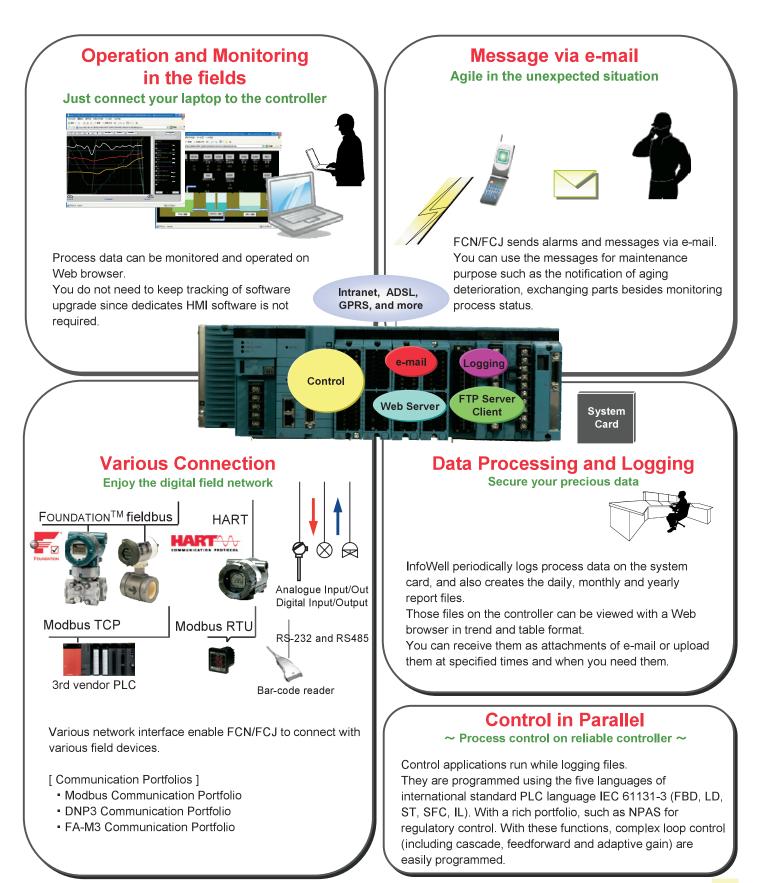
performance, processed data is transmitted to the PC when it is





"Control" + "InfoWell" = "Autonomous Solution"

By encompassing PLC-oriented IT technologies, "InfoWell" (Information Processing and Transmission Package) and "Control" can be integrated into one controller. InfoWell minimizes your "COST" and "TIME".



Applicable Field for InfoWell



Oil & Gas Wellhead Oil & Gas Pipeline Gas Station Metering System Cogeneration System Truck Delivery Monitoring Environment Monitoring



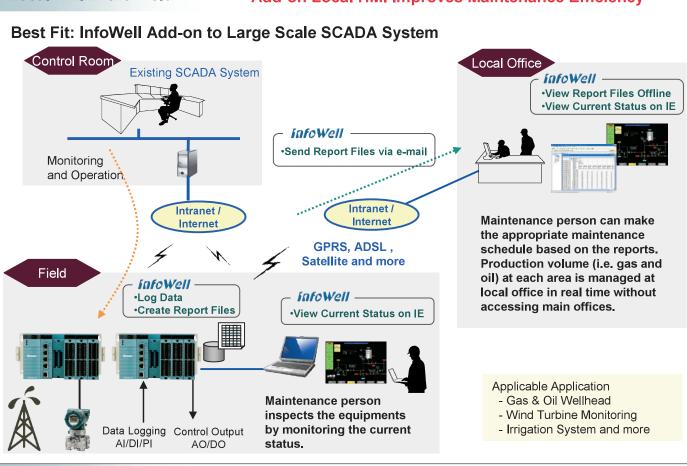
Wind Turbine Monitoring Sewage Treatment Water Distribution Irrigation System Reservoir Monitoring Micro Brewery

Application Examples for InfoWell

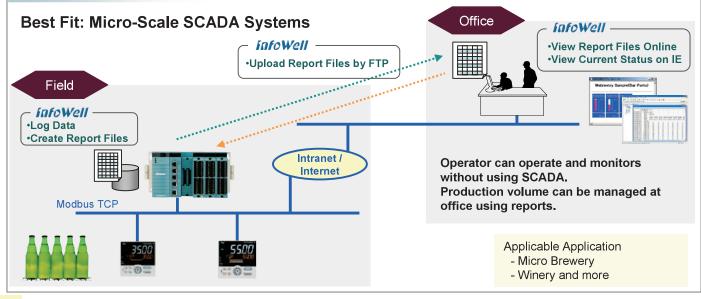
InfoWell brings the remote monitoring innovation to your fields.

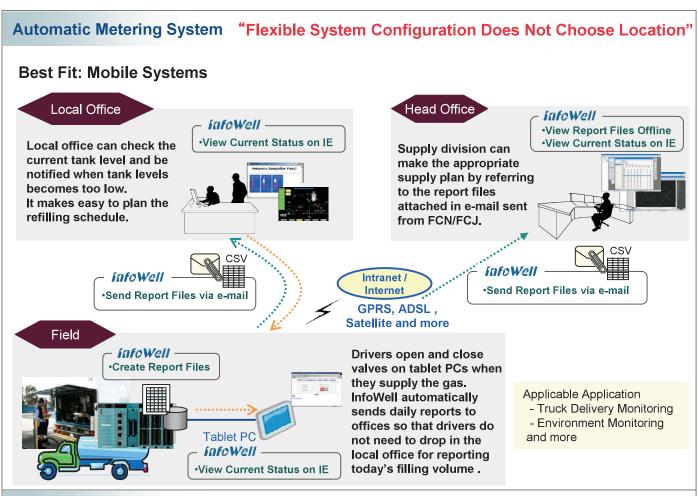
Local HMI in the Field

"Add-on Local HMI Improves Maintenance Efficiency"



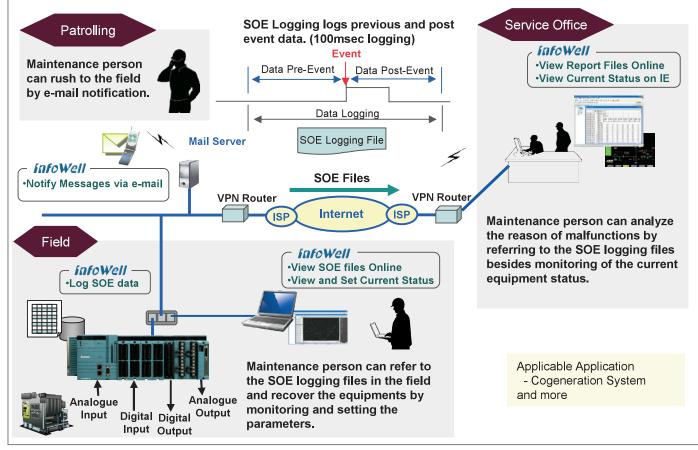
Stand Alone SCADA System "Remote Monitoring Minimizes The Cost of Ownership"





Trouble Shooting of Utility "Agile Action in Analysis and Recovery of Equipment"

Best Fit: Utility Monitoring



InfoWell Licenses

			P		
Function	Description	Graphic	Logging	E-mail	Web
Remote Monitoring	Monitoring of the equipment and process on Web browser	Ø	0		0
Remote Operation	Operation of the equipment and process on Web browser				Ô
Logging	Reference of the past data		Ø		
Report	Daily, Monthly, and yearly reports including maximum, minimum, average and total		Ø	0	
Alarm and Message	Alarm and messaged notifications via e-mail			Ø	
SOE (100msec)	Analysis of the equipment malfunctions		Ø		

[List of Licenses for FCN/FCJ *1]

InfoWell consists of the following licenses.

	 E-mail Application Portfolio License NT8013J
	 Web Application Portfolio License NT8012J Graphic Portfolio License NT8014J
	Logging Portfolio License NT8016J
_	

[List of Licenses for FCN-RTU]

The following CPU model is required when using InfoWell functions. **<CPU Model>**

• NFCP050-S1

<Embedded Licenses>

PAS Portfolio License	: NT8001J			
Web Application Portfolio License	: NT8012J (*2)			
 Graphic Portfolio License 	NT8014J			
Logging Portfolio License	: NT8016J (*2)			

ogging Portfolio License : NI8016J (*

 Modbus Communication Portfolio License : NT8035J
 * 1: InfoWell package does not support duplexed CPU configuration. Transmission time of e-mail depends on e-mail server and infrastructure status.

* 2: The use of some functions for these portfolios is restricted. Please refer to the general specifications for the detailed information.

InfoWell Easy Engineering

Fill In the Form (FIF) type easy engineering method

NT8017J

- [E-mail & Web Application Portfolio]
 - ·Fill-in-the-blanks type configuration.
 - Define the contents of alarms and messages for the e-mail body

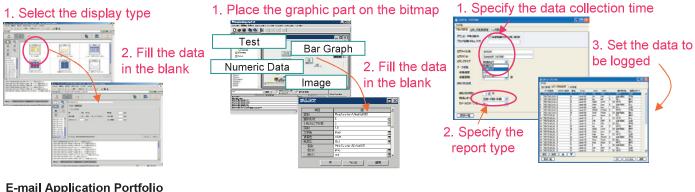
InfoWell License Package

[Graphic Portfolio]

Place the graphic parts on the bitmap

[Logging Portfolio]

- Specify the data to be logged and report type



E-mail Application Portfolio Web Application Portfolio

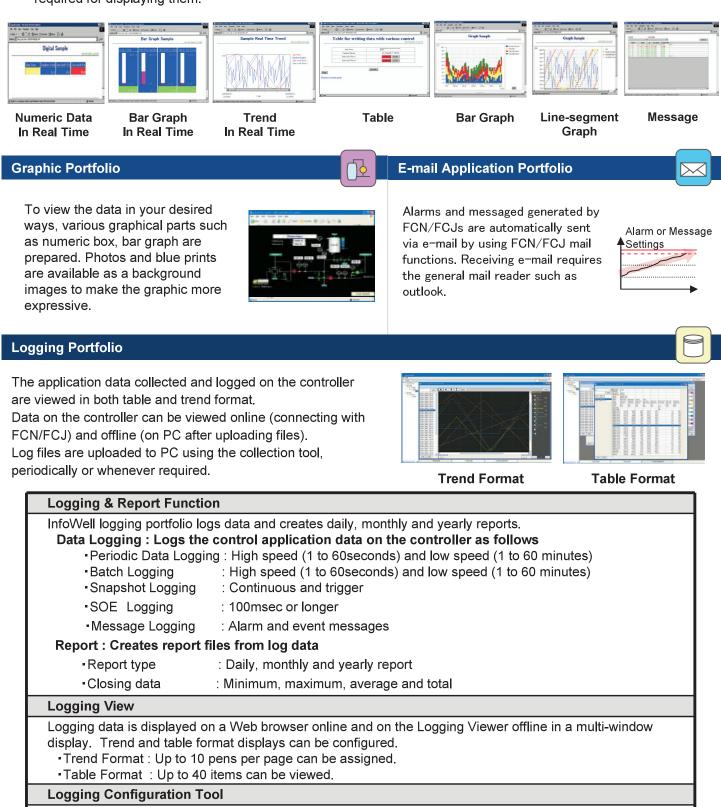
Graphic Portfolio

Logging Portfolio

InfoWell Features

Web Application Portfolio

Various type windows are prepared for monitoring and operating of the equipments. Web browser (IE) is only required for displaying them.



Logging can be configured offline and online using the configuration tool called "Logging Configurator" .

Logging File Collection

Multiple logging files from the multiple controllers are periodically collected using a logging tool called "Logging File Collector".

E-mail

Logging and report files are sent as e-mail attachments.

Autonomous Controller FCN/FCJ Features

Software

International Standards Programming Language

•The Logic Designer engineering tool for the FCN/FCJ supports the five languages of the International Electrical Commission's IEC61131-3 programming language (FBD, LD, ST, SFC, IL).

Reuse of Programs

•The programmes can be divided into Program Organization Units (POU), which enables the reuse of the logic.

Rich in Portfolios and Templates

 Regulatory control blocks such as PID, PVI are provided and various programming samples are also available.

Hardware

Three types of controllers are available to fit for the required purpose. They are designed for industrial-use with high spec control functions.

High Speed Control 10msec CPU Scan

Explosion Protection

FM Non-Incendive Class I Division 2 CENELEC ATEX Type "n" CSA Non-Incendive

Advanced Self Diagnosis Self diagnostic functions

Various Interface

FOUNDATION fieldbus, HART, Modbus PROFIBUS-DP, Analogue, Digital, RTD, TC, Isolated, Channel-isolated

FCN : Redundant Model

The FCN offers high reliability with redundant control, network and power supply. They are also scalable by adding expansion units.

FCN-RTU: Low Power Consumption Model

The FCN-RTU is the best fit for remote applications with low power consumption and wide temperature range (-40°C to 70°C). It is designed to work with solar power supplies.

All-in-One Model

KNOW

In spite of the compact size, FCJ supports redundant networking and two RS-232 ports. With embedded IOs, it covers many small size applications.

Represented by:



vigilantplant.

The clear path to operational excellence

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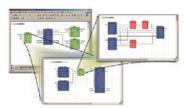
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Engineering Tool "Logic Designer"





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.



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