Leading Innovation, Creating Tomorrow

XGT InfoU
Powerful HMI Software

LS Industrial Systems
www.lsis.biz

Powerful HMI Software
Armed with Advanced
Graphics Technology

XGT InfoU

The Pinnacle of HMI Software, XGT InfoU
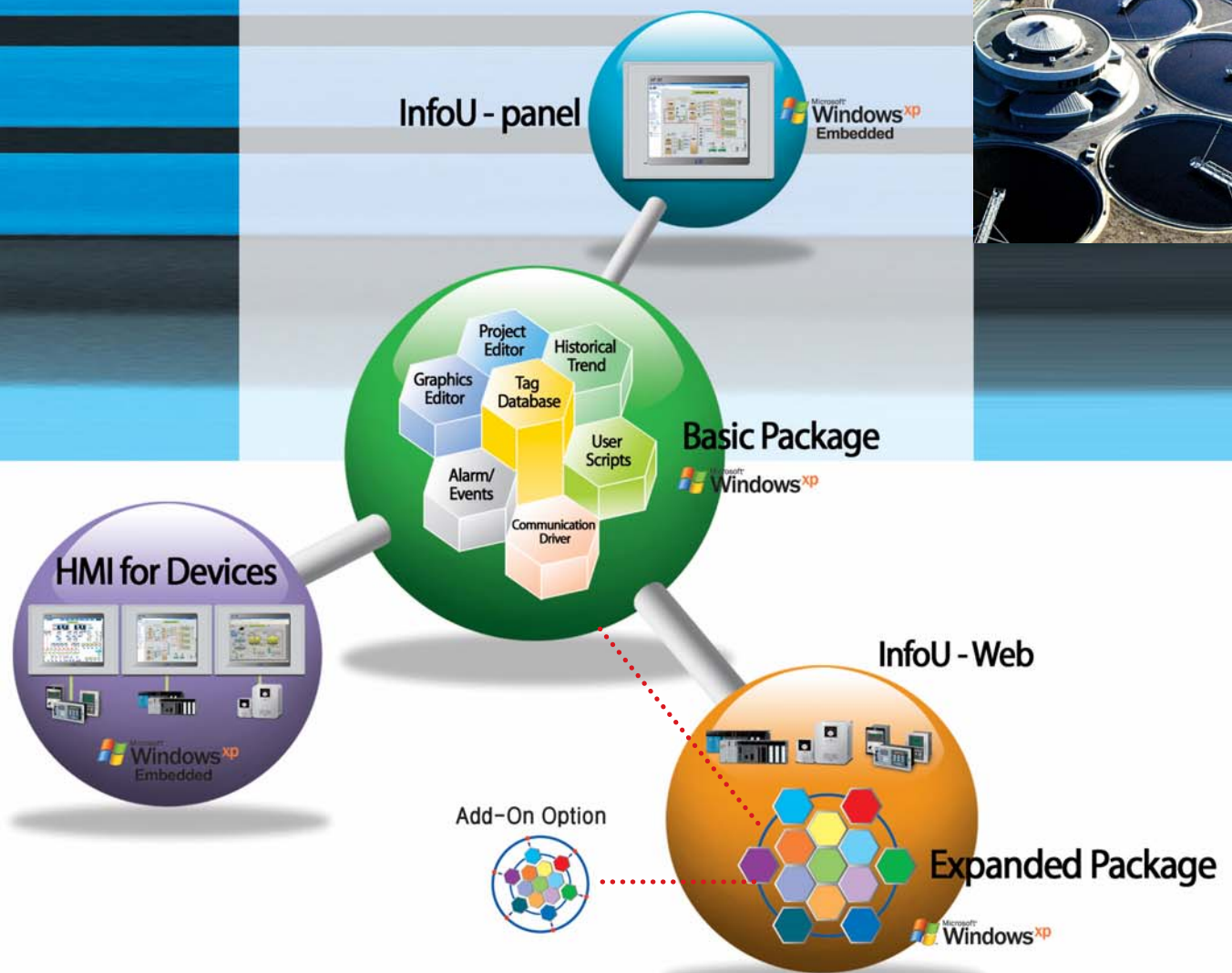# Meet the Innovative Technology of LSIS!

Providing unparalleled competitiveness through user-friendly technology LSIS leads the anguard with cutting-edge technology for the customer.

LSIS's XGT InfoU is an Open architecture HMI SCADA S/W offering exceptional expandability and compatibility. It uses an optimal combination of innovative technology—including a user-friendly interface, progressive graphics technology, and fast and stable networking—to ensure easy connectivity to a wide variety of industrial devices.

InfoU brings together the most advanced technologies developed by LSIS, Its superior performance guarantees efficiency and general-purpose use while offering stable expandability. This powerful, user-friendly HMI software will satisfy all your system development needs and create an optimal environment for process management.

Open architecture, intelligent networking, and user-friendliness—InfoU can accommodate all the exacting needs of the industrial workplace.
Let LSIS's S/W technology take your engineering productivity to the next level.

InfoU – panel
Microsoft Windows xp Embedded

Basic Package
Project Editor
Historical Trend
Graphics Editor
Tag Database
User Scripts
Alarm/Events
Communication Driver
Microsoft Windows xp

HMI for Devices
Microsoft Windows xp Embedded

InfoU – Web

Add–On Option

Expanded Package
Microsoft Windows xp

With advanced technology and superior performance, InfoU lets you manage an entire industrial system.
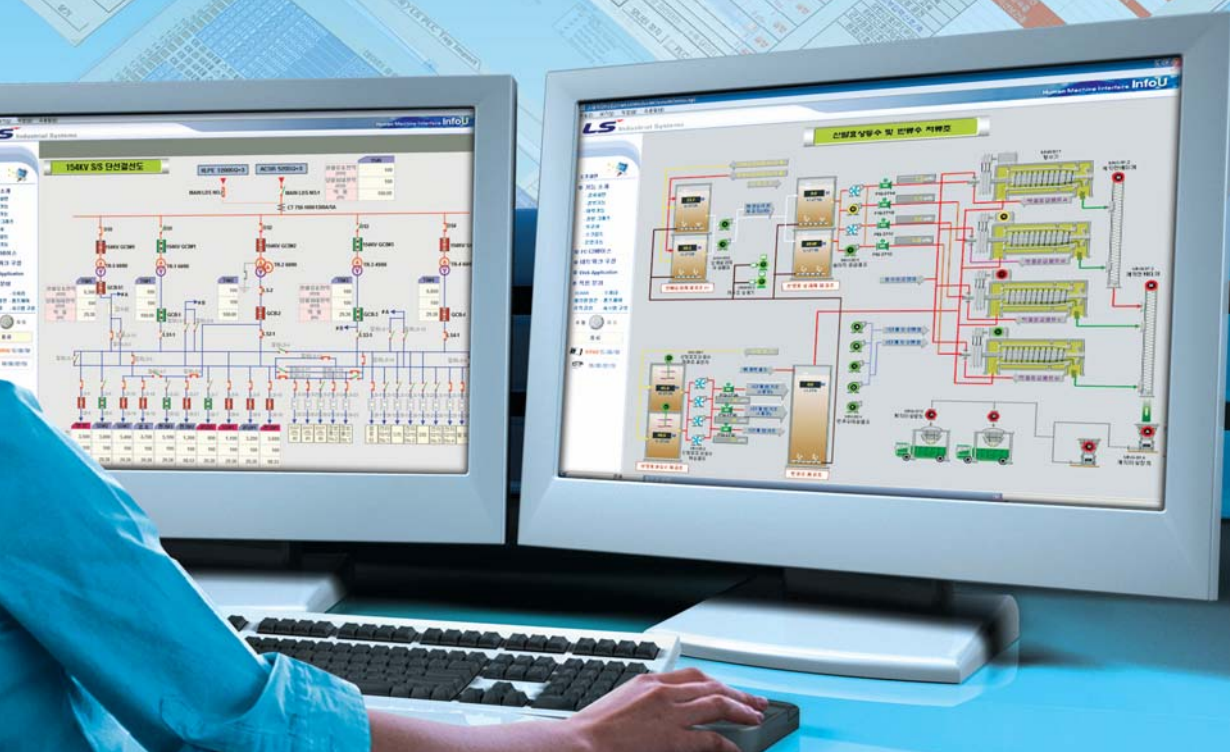
Installing infoU speed up the work-process time.

InfoU dramatically expedites development by automation of time-consuming tasks like tag entry and database connection. Its communication simulator lets you test applications under true-to-life conditions even without actual equipment, while its cross-reference capability promptly identifies and corrects alarm/logging settings containing incorrect mapping information.

Before Installing InfoU

Task A

XG 5000

Task B

GMWIN

Task C
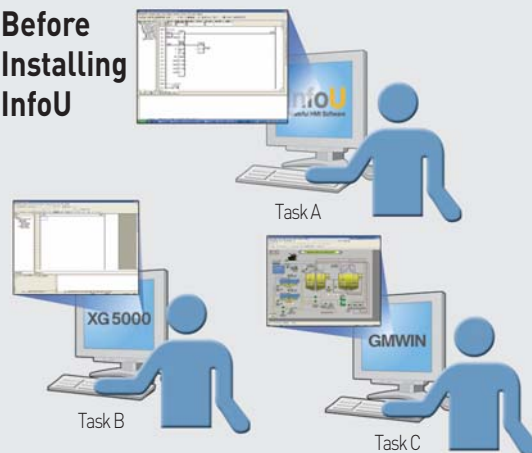
XGT InfoU offers complete satisfaction by combining breakthrough technology with a comfortable work environment.

Today, HMI products are becoming increasingly sophisticated and diversified to facilitate the creation of flexible production systems.

As a result, system developers devote long hours to HMI-related tasks, and the ensuing rise in cost remains a difficult challenge for developers to solve.

In addition, to enable real-time operation through connectivity with upper system like MES, an integrated software environment for floor control is absolutely essential.

InfoU guarantees a stable work environment that lets developers analyze the problems they face and achieve their desired goals with ease.

Breakthrough Technology Meets Exceptional, Convenient Performance.

- Integrated development environment featuring an intuitive user interface and cutting-edge graphics technology.
- Template function enabling diverse, convenient data collection for integration with other LSIS products like XGT PLC.
- Efficient problem solving using enhanced alarm features.
- Open architecture that supports leading industrial standards including OPC and OLE/DB.
- Powerful scripting language including schedule management.
- Easy to use for anyone.
- Program development environment allowing easy application.

After Installing InfoU

Tag Simulator

Drastically reduces debugging time by letting users run applications under true-to-life conditions even without actual devices, by supplying tag data using random sin-cos functions.

Cross Reference

Offers shortcut support that locates selected files and objects from screens, alerts, alarms, and logging data, thus dramatically reducing work time by allowing users to quickly find items even when tag properties have been modified or deleted.
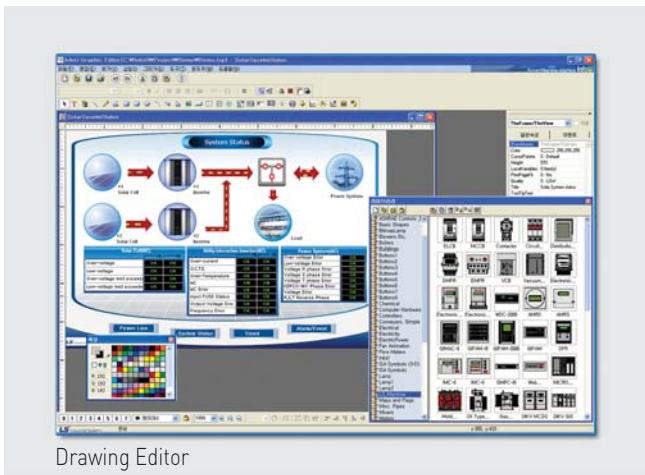
Templates

Can be run using common variables with XGT PLC, and significantly reduces cost by offering an auto-generation function for drawings.

Integrated Development Environment Featuring an Intuitive UI and Cutting-Edge Graphics Technology

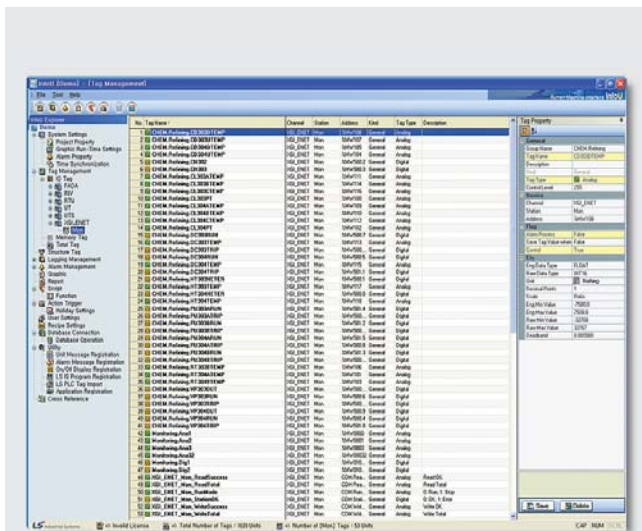## Drawing Support with Diverse Objects and a Graphics Library

⊡ InfoU comes equipped with a graphics library and a wide selection of objects to let users create unique drawings.

⊡ InfoU supports all major graphic file formats, including BMP, GIF, JPEG, PNG, TIFF, ICON, WMF, and EMF.

⊡ The animation GIFs feature lets you enjoy animation effects according to different bit conditions.

⊡ InfoU lets you insert ActiveX Controls directly into drawings and control them using a variety of methods, including embedded scripts.


Drawing Editor

VBS Support for Flexible Application

⊡ InfoU offers VB script for powerful and flexible applications.

⊡ It includes Visual Basic Lanaguge / Action Trigger editing functions.

Fast Screen Configuration Using a Convenient GUI

InfoU helps engineers configure systems easily by providing an intuitive menu hierarchy and a structured development environment. Its graphical user interface (GUI) has an intuitive menu and object-oriented O/S that let engineers configure screens quickly and conveniently.

InfoU's Integrated Development Environment

Extensive Symbol Library for Variegated Use of Objects

⊡ InfoU comes with a symbol library containing over 1,000 items.

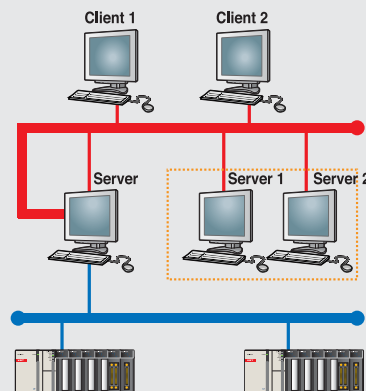⊡ Drag-and-drop makes using the library fast and easy.

Stand Alone System
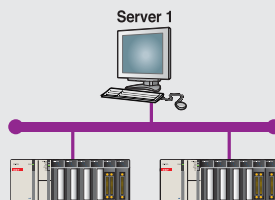
Server 1

Independent system installation enabling data condition monitoring and control across multiple devices.

Client / server System

Client 1   Client 2

Server   Server 1   Server 2

Remote / multi-agent monitoring and control

InfoU
Powerful HMI Software

Animation Attribute Editing and Diverse Tag Settings

⤷ Dynamic Characteristics
- Visible/invisible, blinking, horizontal size, vertical size, horizontal move, horizontal fill, vertical fill, color, background color, font color, rotation, value display.

⤷ User Actions
- Horizontal drag, vertical drag, value entry(text, digital value, analog value), touch action (designation of pre-defined action).
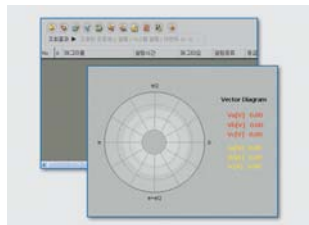
⤷ Virtual keyboard for panel PCs.
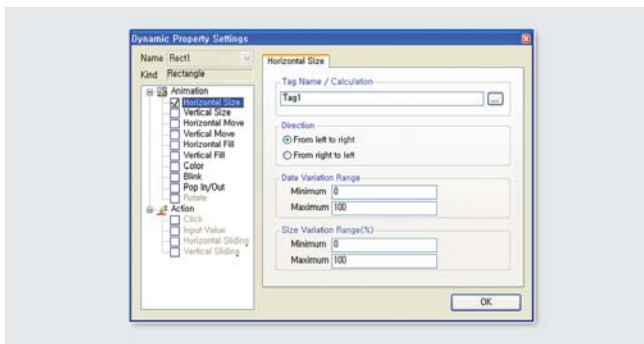
### Dedicated Screens for Equipments and Devices to Ensure Stable Expandability

⤷ InfoU provides dedicated screens for ActiveX Controls used in plant screen editing and monitoring.
- Alarms and events view (real time/history).
- Trend (real time/history)
- GIMAC, GIPAM vector graphics and common ActiveX Controls.

Fast, Accurate Process Management with Panning and Navigation

⤷ Full screen viewing with close up of specific work areas.
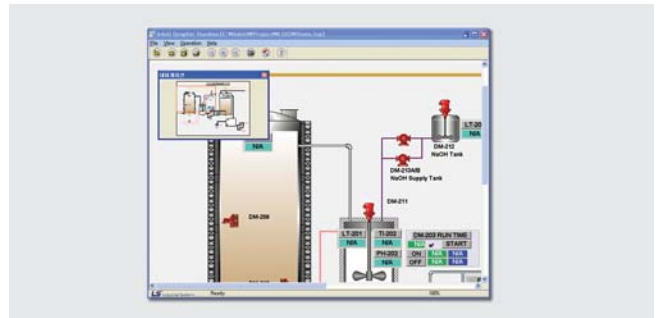
Work Made Quick and Easy with a Convenient Tag Selection Window

⤷ Tag names can be entered directly in the dialog box for setting dynamic characteristics, or selected using the tag selection window.

⤷ Mathematical and logical expressions supported.
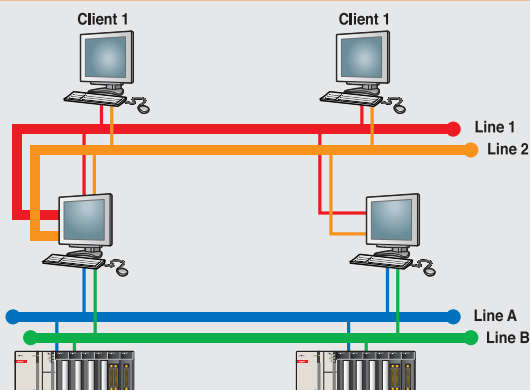
Layer Function for Convenient work

⤷ Show/hide selected layer, layer lock, activate current layer.

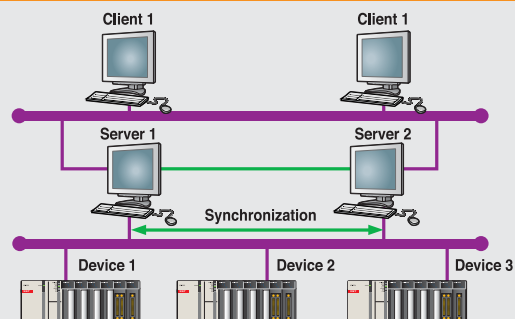### Effortless UI with Graphic Runtime Environment Settings

⤷ A preview function lets you check in advance how the screen will appear when executing runtime.

Line Redundancy

· Supports redundant configuration of ports and lines for devices such as PLC
· Redundancy for Server 1, Server 2 and client Ethernet ports .

Redundancy System

· Reliable system structure protected by auto transfer from the running server to a standby server when failure occurs
· Manual transfer possible through menu operation and scripts
· Time synchronization between Server 1 and Server 2
· Partner server error monitoring using an RS232C communication line
· Project Duplicator automatically saves a copy of the project to prevent error and enhance user convenience.
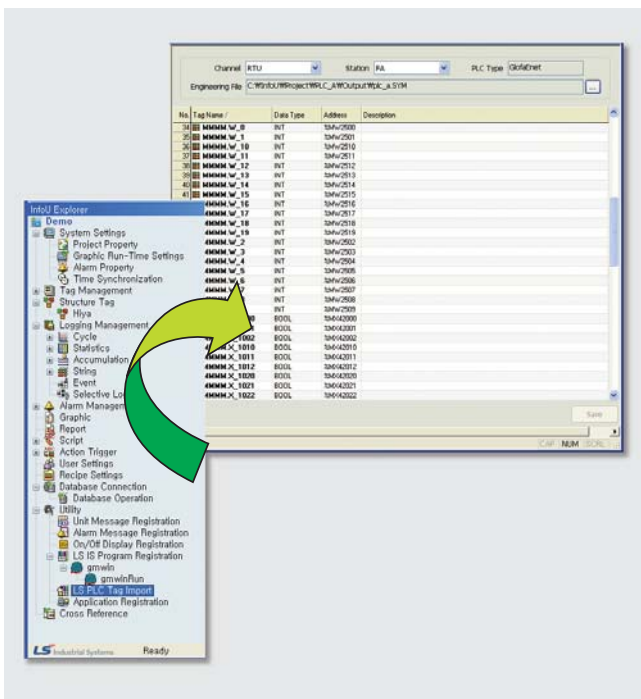
Progressive Project Management through Tag Integration

Tag Integration with LSIS PLC

⤷ InfoU can be integrated with various LSIS products through Variable sharing when using XGT/GLOFA PLC.

⤷ The points used in XG5000 or GMWIN can be directly entered as tags in InfoU using the tag import function.


Engineering Tasks Made Easy with Tag Import and Entry

⤷ Input/output devices and stations configured simultaneously in the tag database without the use of separate screens.

⤷ Auto tag generation supported for LSIS devices and equipment, including PLC.

⤷ Compatible with tag databases and Microsoft Excel.

⤷ One-click setting for all tag properties.

⤷ New tags added simply by renaming when saving similar tags.

⤷ Changed tag properties represented in bold type, errors represented in red.

⤷ Explanation for each tag property displayed at the bottom of the tag property box.

⤷ Checks for error when changing tag properties as well as when saving

⤷ Save changed tag property notification when moving to the next tag after changing a tag property.

⤷ Multi-item selection enabled for easy deletion of large numbers of items.

⤷ Tag property searching by group or alphabetical order.

⤷ In the index, tag names clearly differentiated from other properties by bold type.

⤷ Important items emphasized with yellow background and blue font color.

⤷ Supports "Freeze Panes" function similar to Microsoft Excel.

⤷ Supports "Auto Search" for easy searching by directly entering terms without using a separate search screen.

Resource Reuse for Building User Libraries

⤷ An item that has been used once can be saved in the library manager and reused by the registered user.

⤷ Objects, including scripts and properties, can be added.

Increased Productivity through Drawing Reuse

Registered tags can be reused in drawings using the template function, for speed up and increased productivity.

LSIS Devices

Template Creation for New Device

Device Template
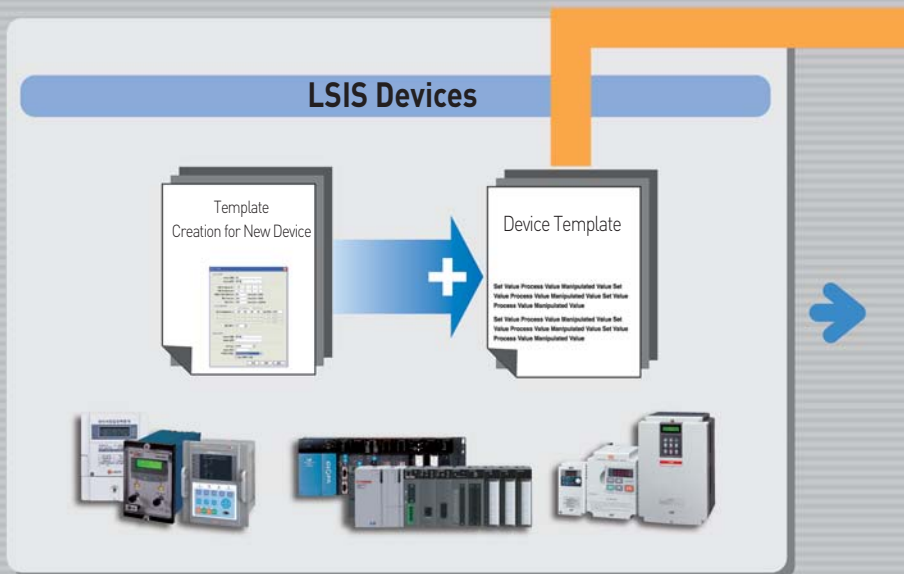
Automatic Tag Generation for LSIS Devices

➥ When using LSIS devices and equipment, tags are generated automatically during drive creation, thus eliminating the need to enter them separately.

➥ Communication-related status tags are generated automatically during drive registration, for easy network monitoring.
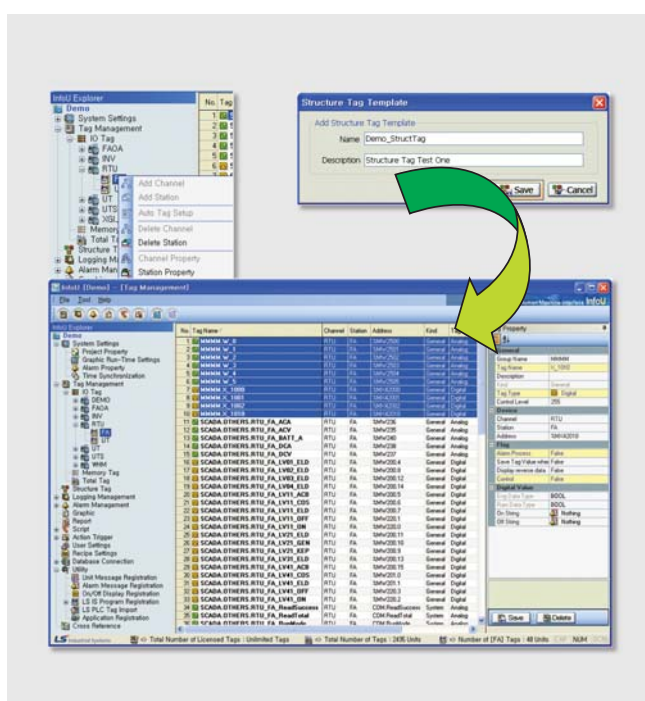
Fast Editing with Excel Import & Export Support

➥ Supports tag database import/export with Microsoft Excel for easy large-scale editing of tags.
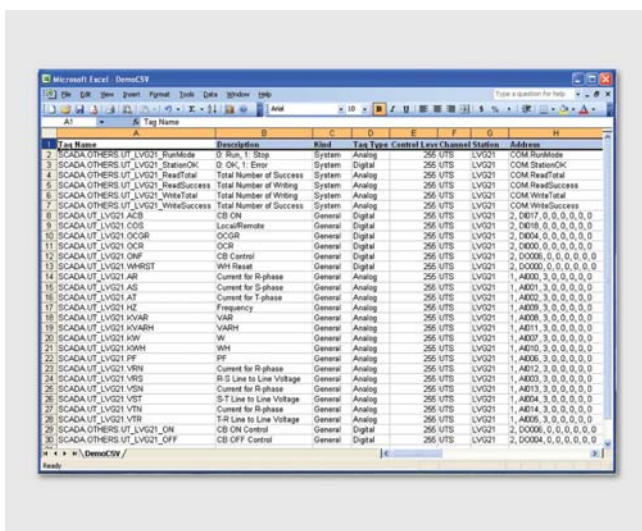
Custom Objects for Devices

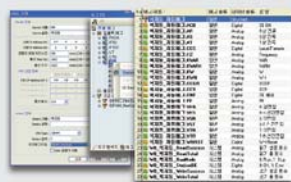➥ Template objects are provided for frequently used devices, to enable immediate use.

Instance

Structural Tags

$V_R V_S V_T,$
$I_R I_S I_T$
Power Factor
...

Set Value
Process Value
Manipulated Value
...

Speed
Torque
Current
Voltage
...

Device Object

· Device information registration.
· Auto generation of device tags.

· Custom object creation for devices.
· Device-specific function support.

Reusable

Link

Varied and Convenient Data Collection Models

Enhanced Efficiency through Varied Data Collection Models

- InfoU supports diverse data collection models, including fixed-cycle, statistical (average, maximum, minimum), and integrated, which can be used in trends and reports.
- Fixed-cycle : Tag values are collected at regular intervals.
- Statistical value : Statistical data for selected tags are generated at regular intervals.
- Integrated value : Statistical data on integrated values are generated for tags whose values accumulate.
- Event : Tag values are collected at instants that satisfy the conditions set by the user.
- Selective saving : When user-designated conditions are met, registered tag values are collected over a set duration. Allows the tracking of tag changes before and after.
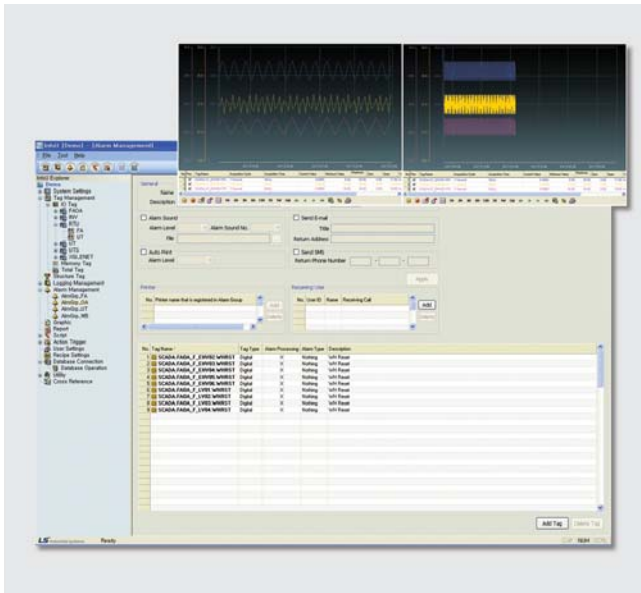

Enhanced Efficiency through Automatic Generation of Statistical Data

- InfoU can generate statistical data without relying on separate scripts and external applications.
- Complicated reports can be compiled simply using the provided statistical data.
- The statistical data can be checked promptly during runtime through trend objects, etc.
- In the case of digital tags, status information including maintained time and activation count can be collected automatically.
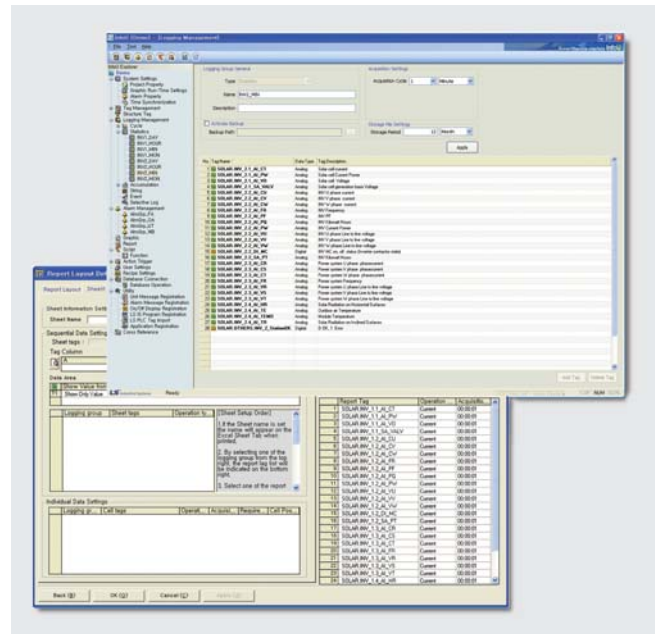
Support for Various Administrative Tasks with Fast and Easy Application Development

Statistical data may be configured using parameters only, without separate scripters or external applications, so that a wide variety of applications may be developed quickly and efficiently.
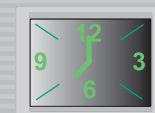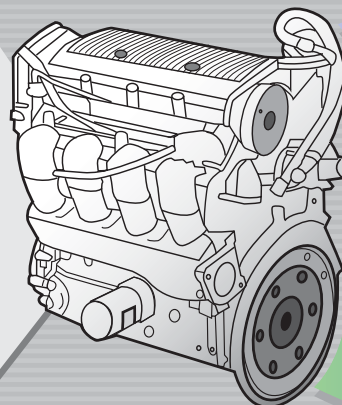
Automatic Backup

- All collection models can be stored separately through the automatic backup function.
- Saved backup files can be stored permanently as DAT using a CD writer.
- Backed-up collection data may be restored and used as needed.

Collection Data Visualization Using a Web Browser

- Collected data can be used by external users through the InfoU Web server.
- With the InfoU Web server, users can access collected data directly through Trend, without using separate operations.
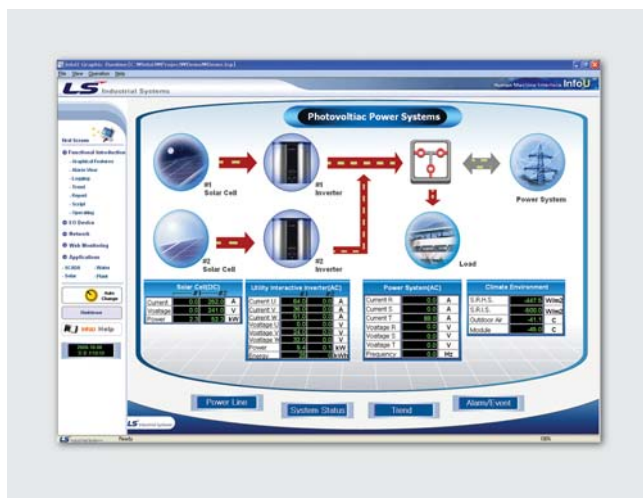
Management of Collected Data

- InfoU provides Trend for analyzing collected data.
- InfoU Trend has a wide range of functions to accommodate the user's various needs.
- Trend data can be saved directly as a Microsoft Excel file.
- API allows data collected from external applications to be utilized in InfoU.
- Collected data can be used directly in reports.

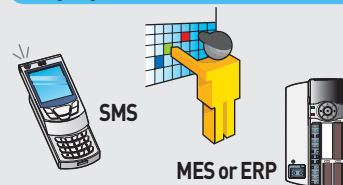
Digital Tags
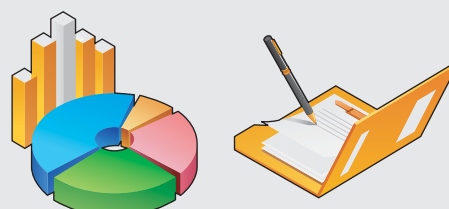
On-Time   On-Count
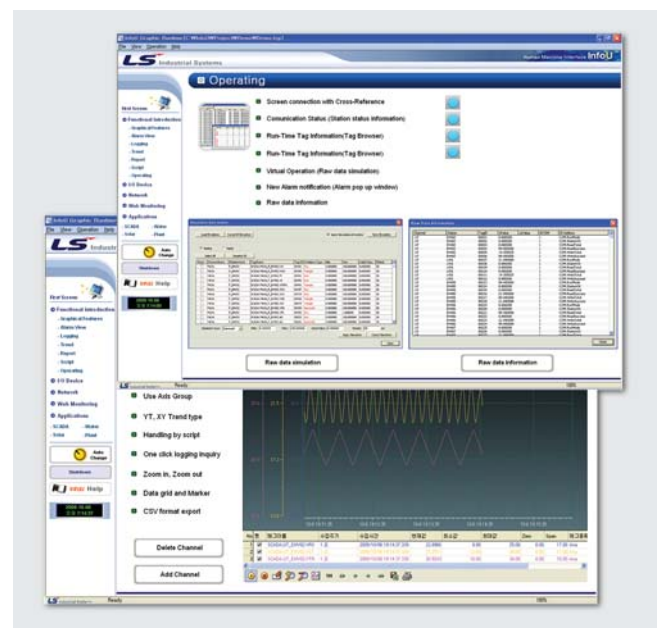
Min / T$_{Min}$
Max / T$_{Max}$
Avg
Sum

User Scripts

If activation time → 5000h
To equipment check list operator
SMS maintenance management S/W I/F

Equipment maintenance

SMS

MES or ERP

Efficient Problem Solving Using Enhanced Alarm Features

Provision of Variegated Information for Maximum Management Efficiency

- When an alarm occurs, it triggers such actions as alarm sounds, printing, SMS transmission, and email transmission.
- The settings for such actions can be configured by alarm group.
- Once a tag is registered in an alarm group and an alarm occurs for the tag in question, the tasks designated in the group settings are executed.

  - Settings by alarm group : Tags are registered by group and the same tasks are executed for the tags in the entire group.
  - Alarm level by group : If the alarm level has not been set individually for a particular tag, it may be set collectively by group.
  - Alarm sounds : When an alarm occurs, the wave file designated for the relevant group is played.
  - Alarm printing : When an alarm occurs, the printer registered for the relevant group prints out the alarm information. A specific color may be set by alarm level and type.
  - SMS transmission : Alarm may be received remotely by messages sent to the registered user's mobile phone.
 - Email transmission : Alarm status messages are transmitted via email
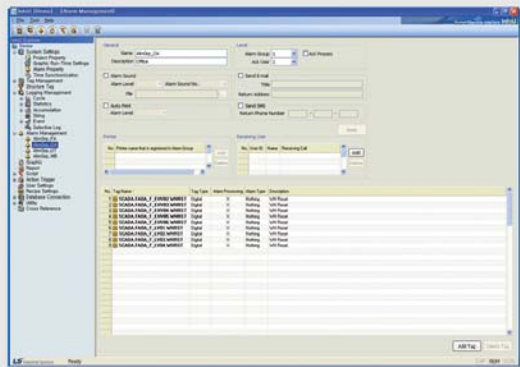
Instantaneous System Error Recognition that Minimizes Damage

- Prompt identification of system errors helps minimize down time. InfoU supports a wide range of alarm types, and swiftly provides necessary information using various analytical tools and filters.
  - Response by alarm type : All alarm, whether real-time or history-related, are classified into three categories—process alarm, system alarms, and event alarm—and handled accordingly.
  - Process alarm : Handles alarm for registered tags, according to the designated alarm level (1 to 10).
  - System alarm : Reports system errors that users need to be aware of in order to operate the system.
  - Event alarm : Collects and saves information needed by the user, including control input content, user log-in information, script execution status, etc.

- A variety of analog alarm types (boundary values, modified time, etc.) can be set for close observation of process conditions.
- Alarm properties may be controlled directly from the drawings screen.
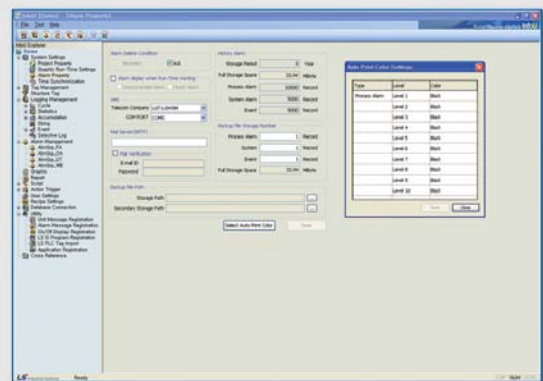
Easy Operation Using Alert Sound/Auto Print Settings

- Each alarm group can be customized with its own alarm sound and print settings.
- Setting alarm properties by group allows users to form an entire alarm system with ease.
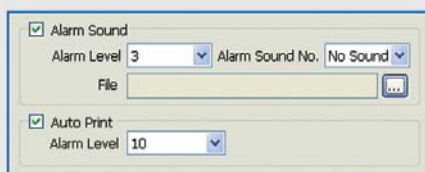
Instant Access to Drawings through Cross Reference

- The cross reference function takes users directly to the drawing for which an alarm has occurred.
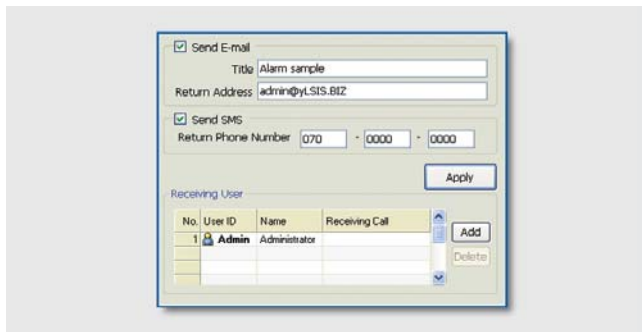- Users can immediately check the equipment that has triggered the alarm.

SMS/Email Settings

⤷ Configuring SMS/email activation settings and registering prospective recipients allow prompt and automatic transmission of information in case of alarm.

Convenient Alarm Group Management

⤷ Managing alarms by group lets users keep control of their projects with ease.
⤷ Tag selection can be made for multiple items at a time or registered by group.
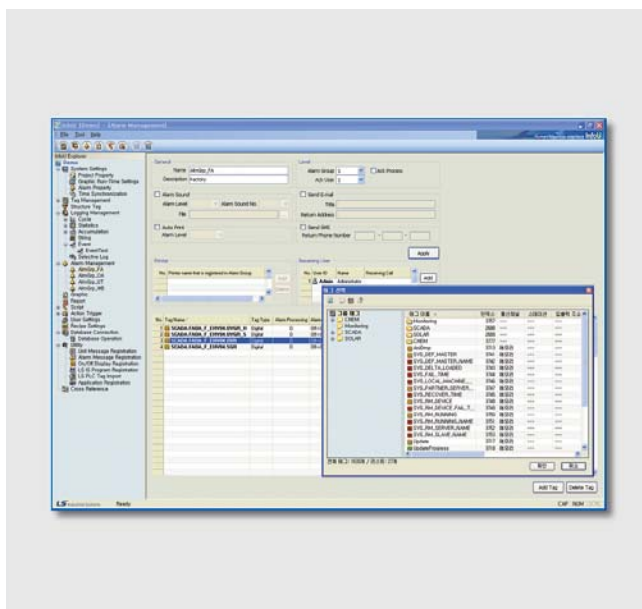
Flexible Alarms for Improved Efficiency

⤷ Registered bit tags can be used to directly and indirectly activate or inactivate alarm activation.
⤷ By setting alarm priority, information display can be prevented for a particular alarm. Priority settings can be applied by level, tag, or group.
⤷ Alarms can be managed as a group according to location and user, with easy access during configuring drawings.

Alarm Message Settings for Quick Error Identification

⤷ Users can set the alarm message that will be displayed when an error occurs or is restored.
⤷ Alarm messages can be set as occurrence, recovery, common, or user-defined. When saving similar alarm messages, new messages may be added simply by renaming.
⤷ Errors can be verified when changing properties as well as when saving, to prevent user mistakes.
⤷ Multi-item selection makes it easy to delete a large number of items at once.
⤷ Supports the Freeze Panes function, similar to Microsoft Excel.
  With Auto Search, searches can be performed by directly entering the search terms without pulling up a separate search screen.
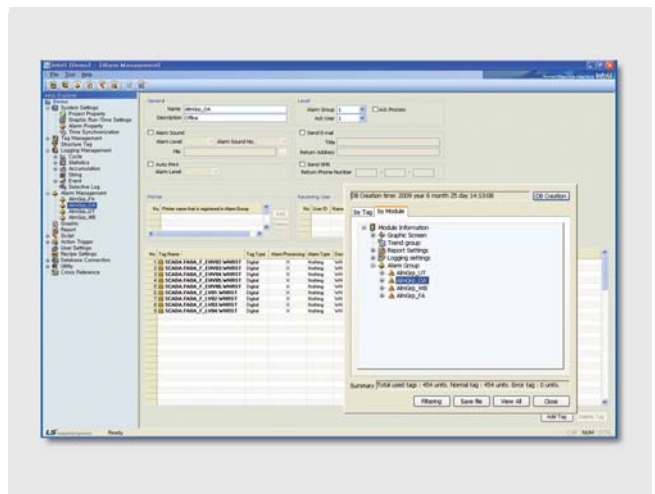
Guaranteed System Expandability with Alarm API

⤷ Third parties, SI(System Integrator)provider, and end-users can use the alarm API (application programming interface) to expand the InfoU system by recording the relevant devices, providers for user alarms, and alarm-requesting individuals.
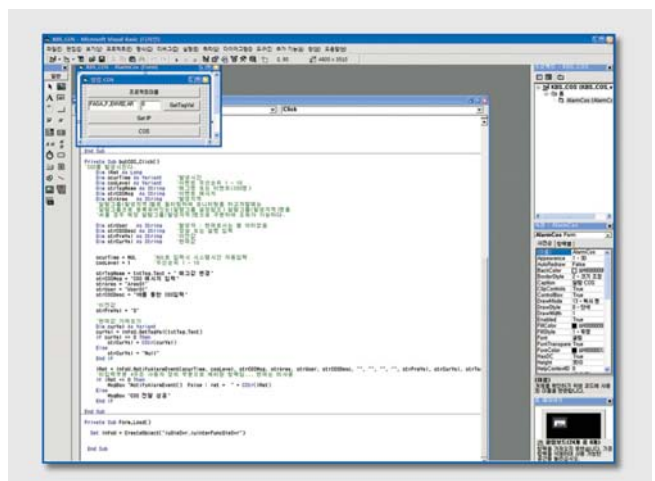
# Open architecture that supports leading industrial standards including OPC and OLE DB

Effortless Construction of Database Applications

⮕ Supports data exchange between InfoU and external databases connected using OLE DB.

⮕ The various tasks for data exporting can be performed via the scheduler or scripts.

⮕ External data can be queried and set as InfoU tag data.

⮕ InfoU tag data can be written, renewed, and deleted through external databases.
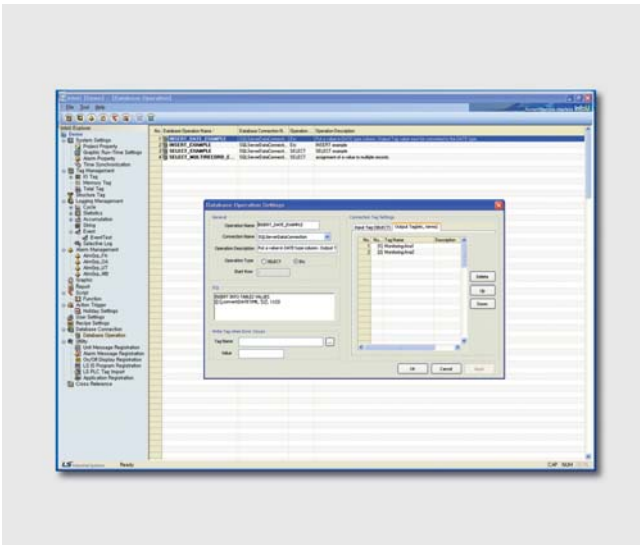
Perfect Compatibility with Other Systems Using a Standard Interface

⮕ InfoU comes equipped with the OPC DA Server/Client. By using a standard interface, the InfoU OPC Server lets users acquire data from LSIS systems through the OPC Client even when using a control system manufactured by another company.

⮕ Because tags can be shared selectively as necessary, important tags can be protected from exposure to external applications.
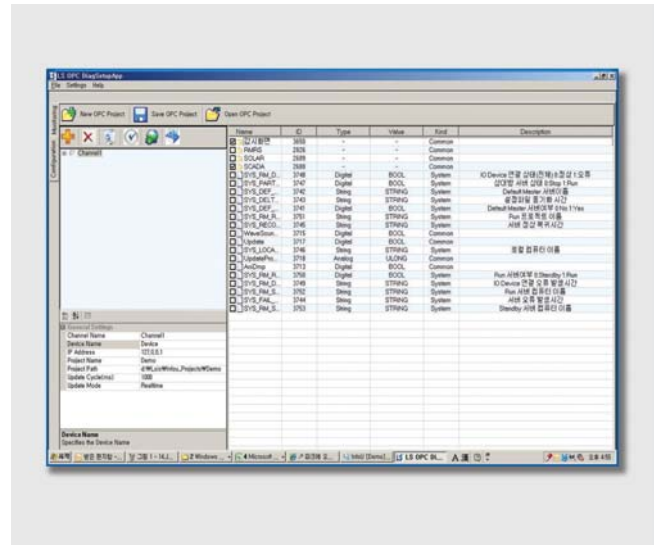
Easy Connectivity with Common Types of DBMS

With the data export function, InfoU can be applied easily using internal functions even when the user is not familiar with common database programs like Microsoft SQL Oracle. In addition, a dedicated API is provided for advanced users, so that they can build DB applications using program tools like VB and VC.
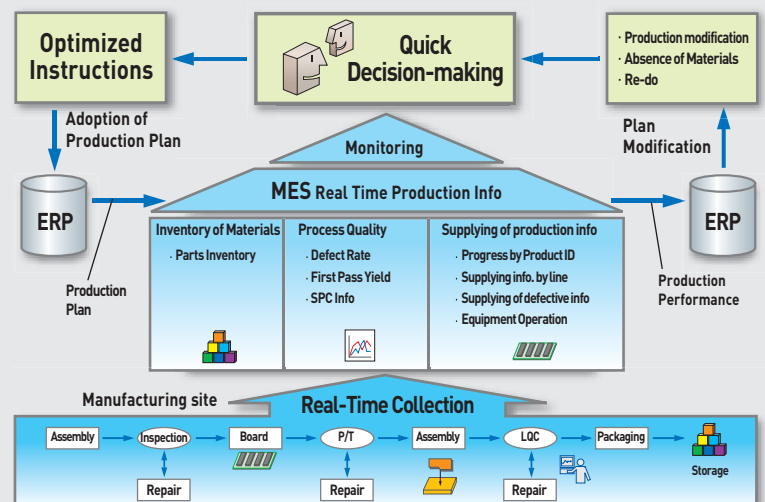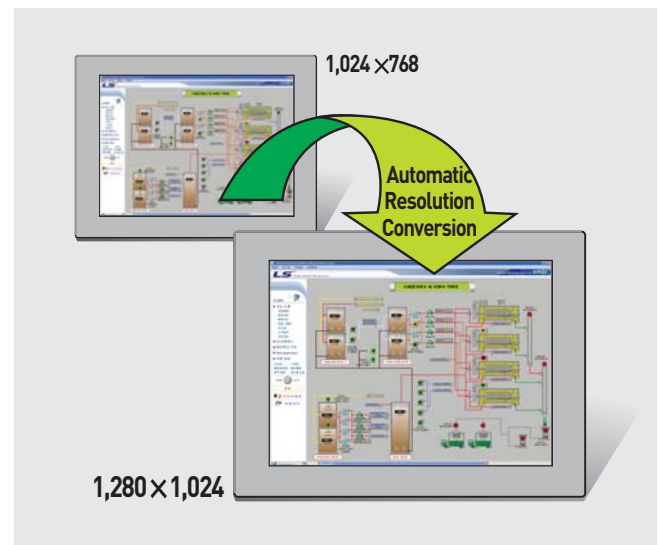
Stable and Effective Client/Server Architecture

The most widely-used system setting for automation applications is the client/server architecture. In such an architecture, software is installed on the server and accessed by client computers. This saves the time and cost required for software maintenance and repair, while providing additional security and redundancy.
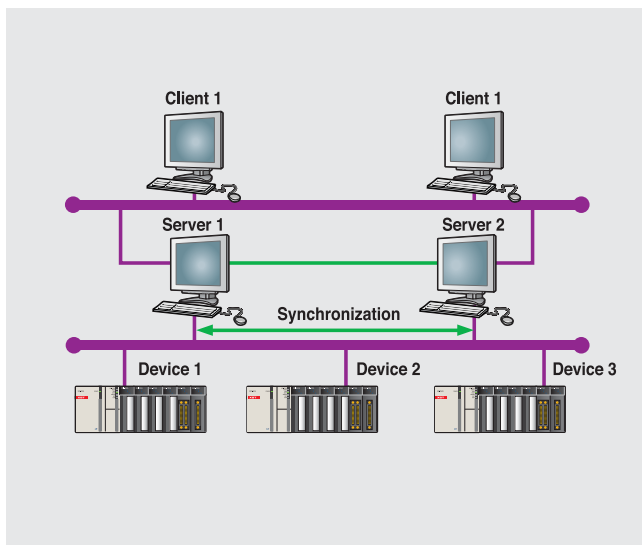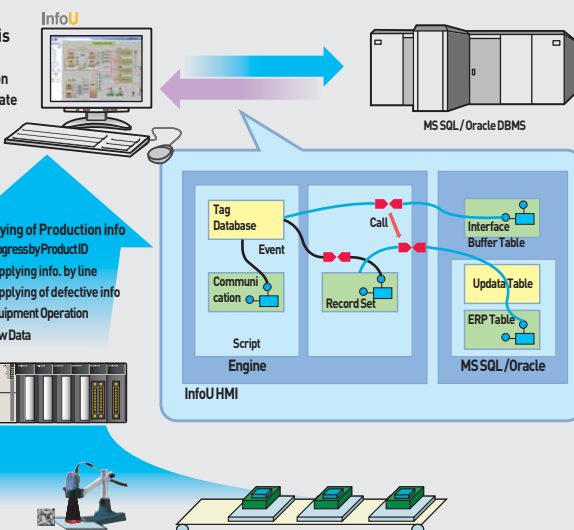
Resolution Independent Graphics

Developing an application at one screen resolution and running it at another resolution will not affect the original application. Applications can be run at a user-defined resolution instead of the screen resolution, so that the advantages of different monitors can be utilized within a single application regardless of where the window is opened. Using Dynamic Resolution Conversion saves time by eliminating the need to re-design, copy, or modify the original application. It also lets you run applications anywhere, regardless of screen size.

Client 1   Client 1
Server 1   Server 2
Synchronization
Device 1   Device 2   Device 3

1,024 ×768
Automatic Resolution Conversion
1,280 × 1,024

Process Data Analysis
· Lot Tracking Information
· Equipment Activation Rate
· Specification Data
· SPC Information
· Quality Information

InfoU

MS SQL / Oracle DBMS

Supplying of Production info
· Progress by Product ID
· Supplying info. by line
· Supplying of defective info
· Equipment Operation
· Row Data

Tag Database
Event
Communication
Script Engine
Record Set
Call
Interface Buffer Table
Updata Table
ERP Table
MS SQL /Oracle

InfoU HMI

Data Export

Handles data exchanges with common databases using InfoU tags. Included in the InfoU development environment and thus can be managed integratively. Users can generate queries easily by inserting tags directly into query sentences.

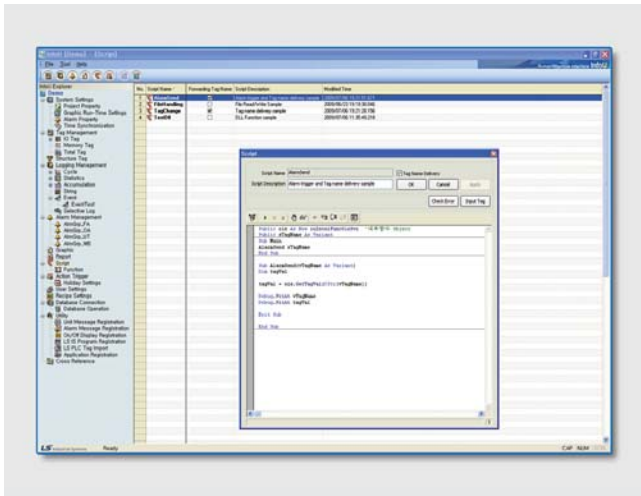## InfoU API for Developing Third-Party Applications

The InfoU interface module, based on Microsoft COM, supports a wide range of functions and can easily be programmed easily to accommodate the most exacting of needs.

Powerful Scripting Language Including Schedule Management

A Scripter Offering Diverse Functions

- InfoU's scripter is based on VB. Scripts can not only be used to control tag values and status, but they also allow access and control the status of graphic objects and al alarms.
- The editor provided with InfoU helps users program scripts easily, while the hundreds of included functions amply reflect the demanding needs of users.
  - Supports VB scripts.
  - Allows insertion of COM, OLE Objects.
  - Supports text colors and dot operation for VB styles.
  - Compile error check function included.

VBS Use in the Graphics Editor

- VBS can be used in the graphics editor to control objects while executing runtime.
- VBS can be applied to events such as dynamic characteristics alteration and mouse movement.

Trigger Function that Lets Users Select a Variety of Actions

- Scheduled and periodic actions can be selected.
- Tag data changes can be selected.
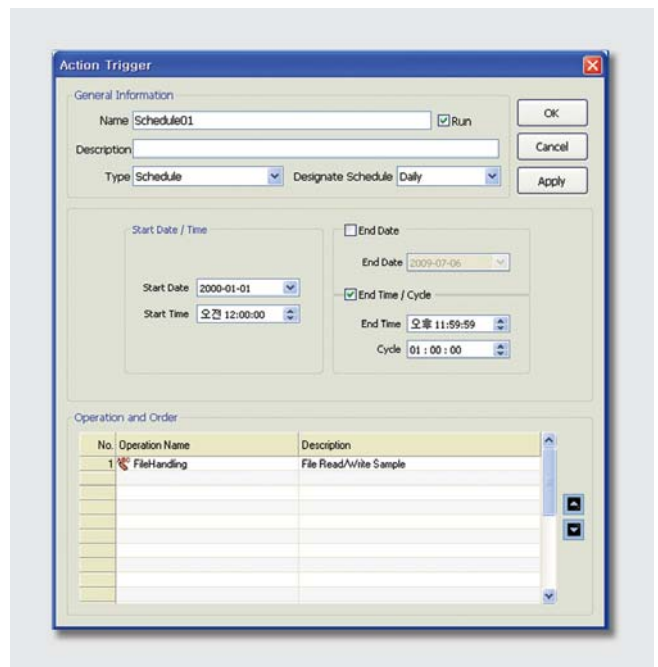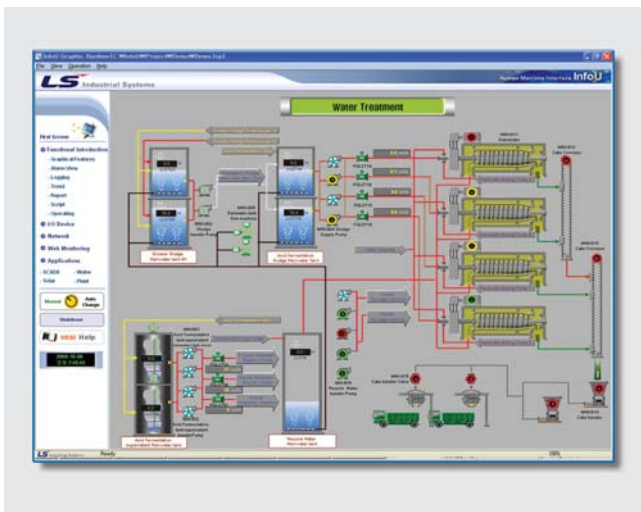- Tag alarm statuses can be selected.

Support for Variegated Functions

- A wide variety of functions are provided for controlling InfoU using the VB scripter.
- File operations are possible.
- Using VB, external applications including third-party ActiveX Controls and Microsoft Excel can be run using COM Ole objects.
- User alarms can be generated using VB.

Diverse Options for Schedule Management

- Holidays can be set and managed.
- Schedules can be set up by day, week, month, or year.
- Specific dates can be selected.

VB Script Debugging

- Debugs errors in written scripts.
- The VB compile error check function checks for errors as you edit, preventing user mistakes.
- Users can check scripts in advance by using the preview function in the plan and schematics editor.

Easy to Use for Anyone

Input/Ouput Driver

▸ Automatic block generation
- Even when the user does not set an address block, one is generated automatically through the tag's I/O address while executing runtime.

▸ Automatic addition of station-related system Tags
- When adding a new station, related system tags are registered automatically. Station status and communication performance can be checked using the auto-registered system tag values.
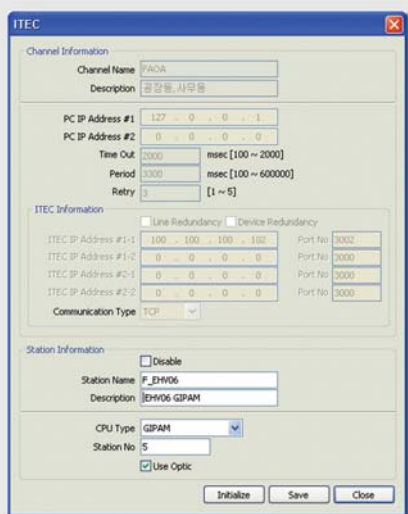

Easy Error Correction through Cross Reference

▸ When altering or deleting tags, those used in plans and schematics need not be located and deleted individually, but corrected instantly using the cross reference function. Cross reference also lets you quickly locate and correct faulty configurations even after the relevant tags have been deleted.
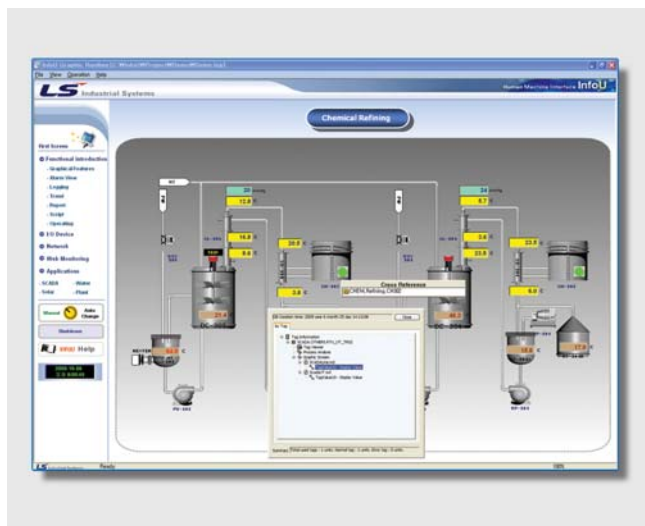
Effortless Crossover with External Devices Using Excel

▸ With LSIS PLCs, such as XGT, tags can be shared with the XG5000 program tool, thus eliminating the need for separate tag entry. But with devices made by other companies, updating and adding tags can be a time-consuming endeavor. In such cases, using worksheet programs like Microsoft Excel can make the entire process fast and simple.
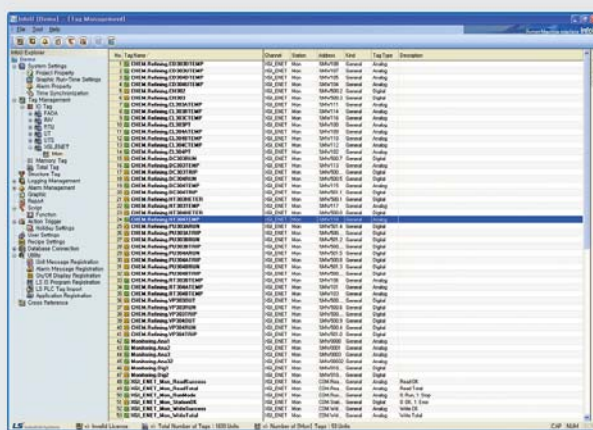
Tag Simulator

▸ Operation tests can be run using the tag simulator even in the absence of actual equipment.
▸ Screens are displayed conveniently using various sources, including triangle and saw-tooth waves.
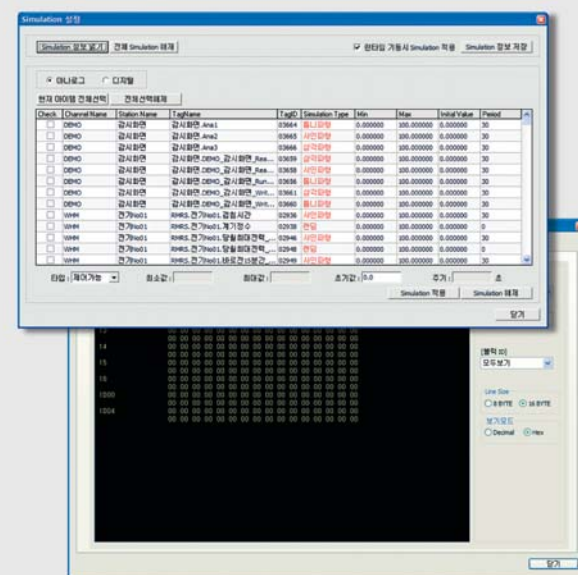
InfoU Web Server

Easy Web Conversion of Existing Projects Using the Web Wizard

The InfoU web server automatically converts existing projects using its Wizard function. Even users with no expert knowledge of servers and website construction can easily build websites and access the InfoU HMI system from anywhere using a web browser. The Web Wizard can generate new websites according to the user's specifications, as well as create and add virtual folders on existing sites.
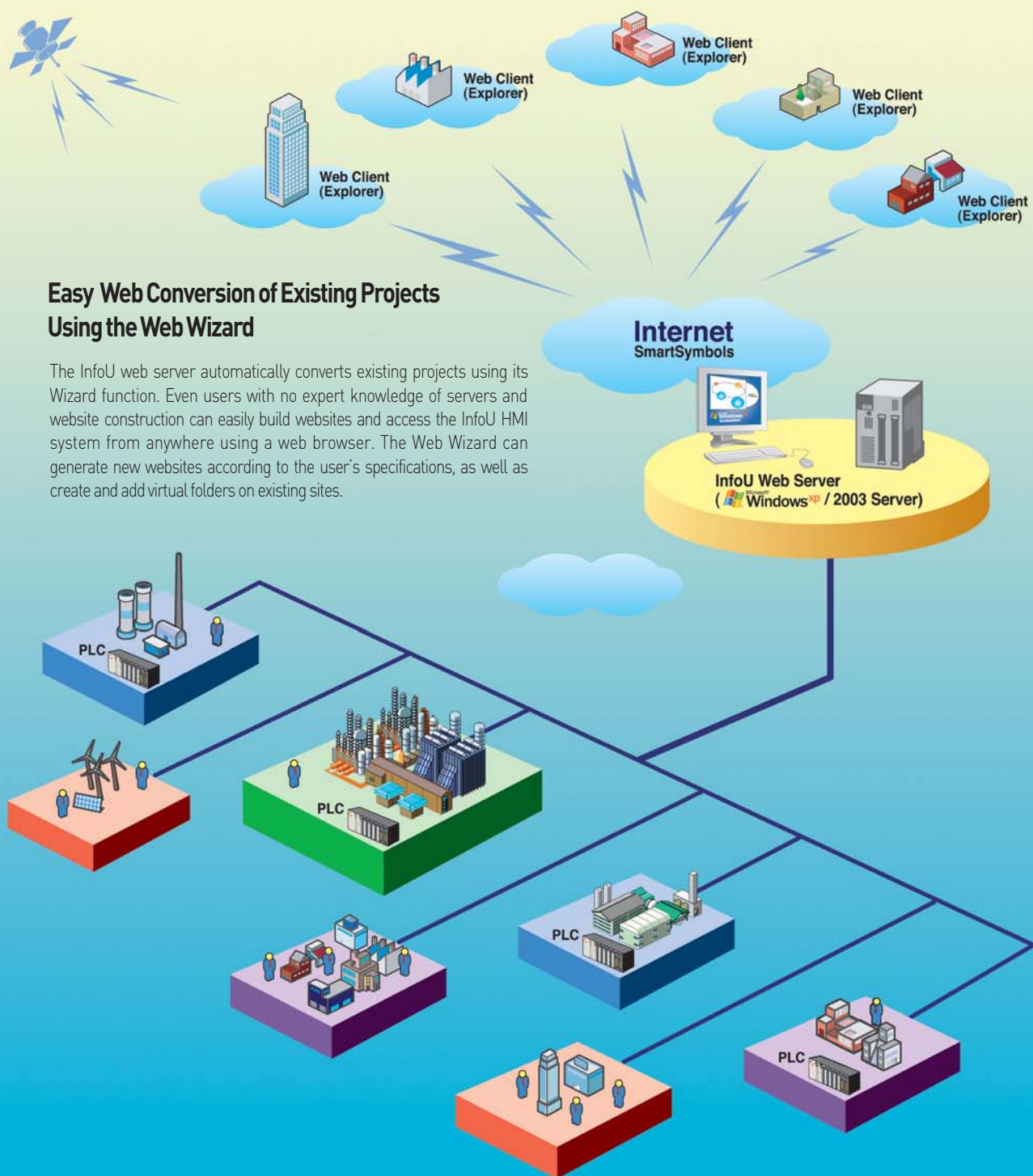
Easy Report Generation Using the Report Wizard

A Wizard that Lets Both Developers and Operators Create Forms with Ease
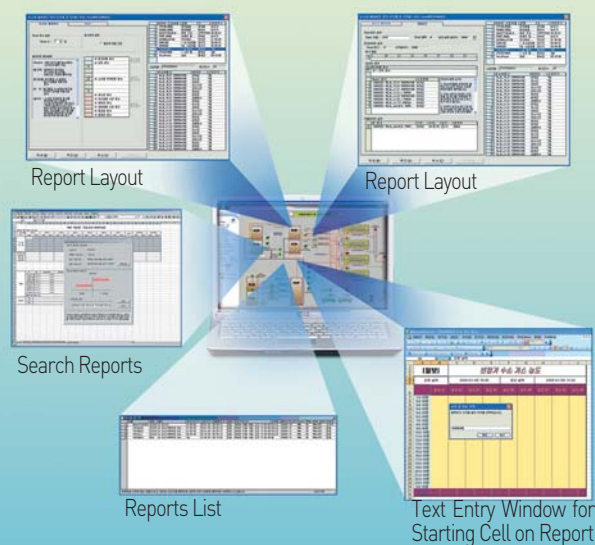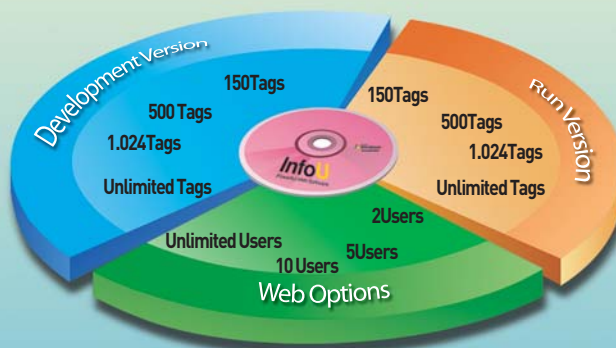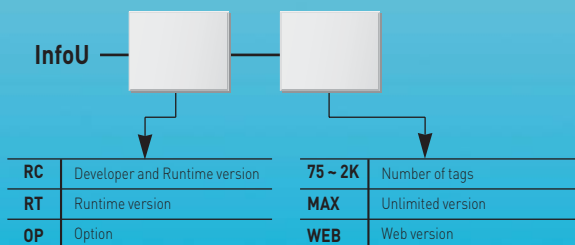
⊡ Reports come in the form of a Wizard, so that operators as well as developers can register forms directly without the need for separate base technologies.

⊡ Once the collection model is selected, the corresponding tag list is displayed. The type of data that can be selected is determined by the property of the collection model.

- Fixed-cycle: Analog current value, digital current status.
- Statistical value (analog): Current value, minimum value, maximum value, minimum time, maximum time, average, total, sampling count.
- Statistical value (digital): On count, activation time, alteration count.

⊡ Daily, weekly, and monthly reports can be printed and saved automatically. When saving, users can specify how long the saved file will be kept.

⊡ Report forms can be selected and printed by users whenever necessary.

Report Layout

Report Layout

Search Reports

Reports List

Text Entry Window for
Starting Cell on Report

Products Line-Up

Development Version
150Tags
500 Tags
1.024Tags
Unlimited Tags

Run Version
150Tags
500Tags
1.024Tags
Unlimited Tags

Web Options
2Users
5Users
10 Users
Unlimited Users

Ordering information

InfoU

RC	Developer and Runtime version
RT	Runtime version
OP	Option

75 ~ 2K	Number of tags
MAX	Unlimited version
WEB	Web version

Item	Product	Description
Developer and Runtime version	InfoU-RC-75	78 tags
	InfoU-RC-150	150 tags
	InfoU-RC-500	500 tags
	InfoU-RC-1K	1,000 tags
	InfoU-RC-2K	2,000 tags
	InfoU-RC-MAX	Unlimited tags
Runtime Version	InfoU-RT-75	78 tags
	InfoU-RT-150	150 tags
	InfoU-RT-500	500 tags
	InfoU-RT-1K	1,000 tags
	InfoU-RT-2K	2,000 tags
	InfoU-RT-MAX	Unlimited tags
Web Version	InfoU-OP-WEB2	InfoU-RC-MAX + Web server (Access limit: Max. 2person)
	InfoU-OP-WEB5	InfoU-RC-MAX + Web server(Access limit: Max. 5person)
	InfoU-OP-WEB10	InfoU-RC-MAX + Web server(Access limit: Max. 10person)
	InfoU-OP-WEBMAX	InfoU-RC-MAX + Web server (Unlimited access)

⊡ **All product includes Server option and OPC option**

Leading Innovation, Creating Tomorrow

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Specifications in this catalog are subject to change without notice due to
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