General Specifications

STARDOM
APPF

NT8010J
Webmetry Basic Library Portfolio

GS 34P02P50-01E

■ GENERAL

This document describes the Webmetry Basic Library Portfolio which is for developing Java applications running on FCN/FCJ Java function of Autonomous Controllers FCN (Field Control Nodes) and FCJ (Field Control Junctions).

Application Portfolios include InfoWell, which has enhanced this portfolio. Please also refer to the InfoWell's general specifications (GS 34P02P51-01E), because InfoWell enables almost the same functions as those of this portfolio without programming.

■ FUNCTIONS OVERVIEW

The Webmetry Basic Library Portfolio is for creating Web-based monitoring applications running on the FCN/FCJ Java function. Using this portfolio, you can easily create applications such as programs to monitor control data using a Web browser.
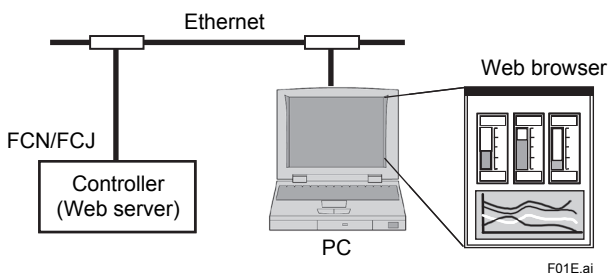

Figure An Example of a Webmetry Application

The Webmetry Basic Library Portfolio consists of the following two products:

Webmetry Basic Library Portfolio License
A license to execute an application created by the Webmetry Basic Library (hereinafter referred to as Webmetry applications) on the FCN/FCJ.

Webmetry Basic Library
A library for FCN/FCJ Java application development kit. Use this library to create Web-based monitoring applications.

■ FEATURES

Web Screen Display
Webmetry applications created by the Webmetry Basic Library all run on the FCN/FCJ. The PC download programs necessary for Web screen display from FCN/FCJ when Web screen display is requested. No special software is required for the client PC on which the Web browser runs.

Building Applications with a Minimum of Coding
Users can build applications simply by creating programs to handle data acquisition. Programs to transmit data to a Web browser and display it are provided in the Webmetry basic library, so you do need not to create such programs.

Applications that Combine Email and Web Display of Data
Using the library with FCN/FCJ Java function, you can create applications that combine mailing and Web display of data. These Java applications always monitor control data - but you can build applications that also send email to operators when abnormal data occurs, and applications which allow operators to confirm alarm status via a Web browser.

■ DETAILED FUNCTIONS
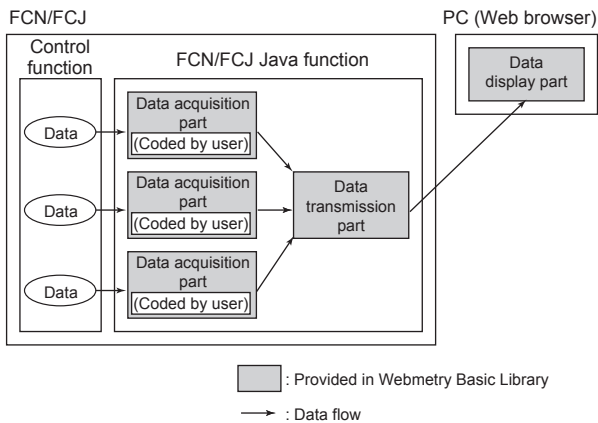
The Webmetry application functions are shown below:

: Provided in Webmetry Basic Library

⟶ : Data flow

F02E.ai

Figure Structure of Webmetry Application Functions

● Data Display Part

The data display part is downloaded from the FCN/FCJ to the Web browser and executed to provide screen display. A Java applet in the Webmetry Basic Library can be used for this. No programming is required. Simply set parameters in an HTML file to specify displayed data, display format, and position of display.

This following Web browser display formats are supported:

- Instantaneous-value bar graph display
- Instantaneous-value digital (numeric) display
- Time-series data trend graph display

Making a program by users can also create an applet.

● Data Transmission Part

This part handles transmission of data to an applet in a Web browser. This part stores and transmits data in a time series for a data time-series display. This part is supplied with the Webmetry Basic Library, so users do not need to make a program for this part.

● Data Acquisition Part

This part acquires data from the control function periodically and sends data to the data transmission part. This part can be programmed with minimal coding simply by customizing the data acquisition part supplied in a class library with the Webmetry Basic Library.

> Note: Data does not go through a firewall which connects an intranet with the Internet, because Webmetry applications use their own protocols for data communications. Webmetry applications need to be displayed using a PC within the intranet.

■ SOFTWARE

● Webmetry Basic Library Portfolio License

A license for executing a Webmetry application on the FCN/FCJ

To execute a Webmetry application on the FCN/FCJ, this license must have been registered in the FCN/FCJ.

● Webmetry Basic Library

A library for creating Webmetry applications

This library is installed on the PC where the FCN/FCJ Java Application Development Kit is installed, to create Webmetry applications.

■ METHOD OF PROVIDING SOFTWARE

● Software Media

The Webmetry Basic Library programs and help are supplied on the Application Portfolio Software Media (Model NT205AJ).

● Webmetry Basic Library Portfolio License

The Webmetry Basic Library Portfolio License comes with an order ID sheet as the order ID and password. After purchasing the license, access the specified Yokogawa Web site and enter this order ID and password. A license ID is then issued. To use the Webmetry applications, register the supplied license ID into the FCN/FCJ system card.

■ OPERATING ENVIRONMENT

● Development Environment

Hardware operating environment
PC: Must satisfy operating environment requirements for logic designer.

Software operating environment
Java development environment:
       Oracle Corporation JDK 1.4.2
FCN/FCJ Java Application Development Kit:
       R3.50.01 or later
Web browser (*1)
  Windows 7: Internet Explorer 8.0 (*4) + Java Plug-in 8.0 Update 31 (*2) (*3) (*4)
       Internet Explorer 11.0 + Java Plug-in 8.0 Update 31 (*2) (*3) (*4)
Web server: Internet Information Service (*1)

  *1:   It is needed to test the Webmetry applications on Windows.
  *2:   Java Plug-in is bundled with Application Portfolio Software Media.
  *3:   When it operates on the same PC with a VDS HMI client, version of Java Runtime Environment including Java Plug-in for both of them have to be the same.
  *4:   32-bit versions only

● Execution Environment

Hardware operating environment
Autonomous controllers FCN/FCJ (*1)

Software operating environment
FCN/FCJ basic software R3.50.01 or later (*2)

Web browser operating environment
PCs running Windows 7 SP1
Web browser
  Windows 7: Internet Explorer 8.0 (*3) + Java Plug-in 8.0 Update 31 (*3) (*4) (*5)
       Internet Explorer 11.0 + Java Plug-in 8.0 Update 31 (*3) (*4) (*5)

  *1:   If FCN dual-redundant CPUs are used, FCN/FCJ Java function cannot be used.
  *2:   If FCN/FCJ Java function is used, select "enable Java functions" for corresponding suffix codes of the FCN/FCJ Basic Software License (Model NT711AJ).
  *3:   32-bit versions only
  *4:   Java Plug-in is bundled with Application Portfolio Software Media.
  *5:   When it operates on the same PC with a VDS HMI client, version of Java Runtime Environment including Java Plug-in for both of them have to be the same.

■ MODEL AND SUFFIX CODES

● Webmetry Basic Library Portfolio License

		Description
Model	NT8010J	Webmetry Basic Library Portfolio License
Suffix Codes	-L	License
	W	Issued on the Web
	1	Always 1
	1	Always 1
	A	Standard

Note: No license is required to run the Webmetry Basic Library on Windows.
It can be installed from Application Portfolio software media.

■ ORDERING INFORMATION

Specify model and suffix codes when ordering.

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