

General Specifications

SSS7770 Interface for GE Energy's System 1®



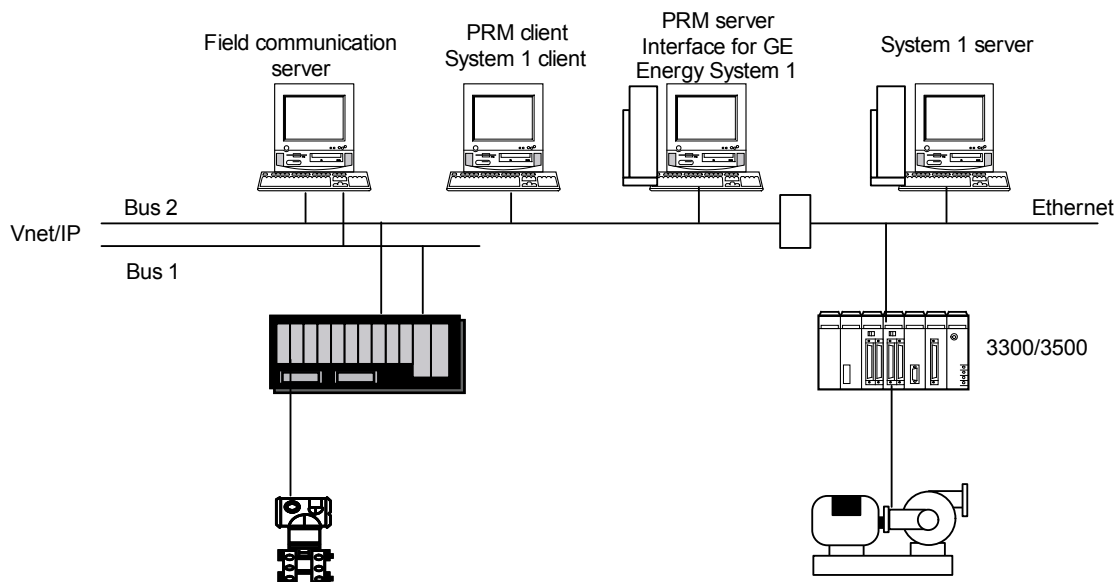
GS 33Y05Q22-32E

OVERVIEW

The Interface for GE's System 1 is a PRM optional package for connecting PRM with the System 1 Optimization and Diagnostics Software Platform. System 1 is a condition monitoring and event diagnostics software platform for managing the plant machinery assets. It is used for monitoring and diagnosing the rotating or reciprocating equipment and optimizing plant operations. After connecting System 1 and PRM through the interface for System 1, the information about the assets monitored with System 1 can be integrated into PRM. The plant operators can promptly acquire the information about the machinery asset in real time.

SYSTEM CONFIGURATION

A system configuration is shown as follows:



The Interface for GE's System 1 can run on a PC in which the PRM server is installed.

A System 1 platform consists of System 1 Client and System 1 Server. System 1 Server contains the database of the plant machinery assets. The data collected by the Bently Nevada™ 3300, 3500 or Trendmaster® Pro monitoring system are stored in this database for plant condition monitoring and event diagnosis. System 1 Server and PRM Server can be connected through Ethernet, thus, PRM can manage the health status of the plant equipment according to the condition monitoring events and diagnostic events sent from System 1.

Moreover, when System 1 Client is installed in the PC in which PRM Client is installed, the detail plot display of System 1 can be launched from the Device Navigator window or maintenance alarm of PRM with the System 1 Display Software.

Note: Data exchange between PRM and System 1 is carried out through the OPC interface. It is necessary to configure the PRM Server and System 1 Server on a same network. If a firewall is placed between PRM Server and System 1 Server, the data exchange between the two servers may not be properly carried out. As long as the System 1 OPC server is on the same side of the firewall as the PRM server it will work.

Note: To launch System 1 Display Software, the System 1 Client should be installed in the PC in which PRM Client is installed.

■ SPECIFICATION

With Interface for GE's System 1, the following features become available.

● Engineering Support

Plant Hierarchy of System 1 can be imported to PRM

System 1 hierarchy (Enterprise and Instrumental Hierarchy) and asset information can be imported to PRM. In PRM, System 1 hierarchy (Enterprise and Instrument Hierarchy) and asset information can be imported to PRM. In PRM, a tool for mapping System 1 hierarchy into PRM hierarchies is available. The System 1 hierarchy (Enterprise and Instrument Hierarchy) and asset information for importing to PRM needs to be exported from System 1 using a dedicated tool. MIMOSA Common Relational Information Schema (CRIS) V3.1 standard will be used for this interface.

● Health Status Monitoring

Display System 1 Hierarchy

After mapping the System 1 hierarchy into PRM hierarchies, the status of assets under the management of System 1 can be displayed on the PRM Device Navigator in the same way as the devices under the management of PRM.

Display System1 Messages

The messages initiated from System 1 can be put into PRM. The maintenance alarms regarding to System 1 are displayed on Historical Message window of PRM Client. PRM can add the additional information such as the phenomena, the causes and the solutions to the messages from System 1 in the same manner as for the PRM messages from the field devices.

Display Asset Status under Management of System 1

The status of the asset being monitored by System 1 can be displayed on Device navigator in the same way as other PRM devices. The displays are colored according to the asset statuses for easier determinations and the colors of statuses displayed on PRM follow the same rules in System 1.

Launch System 1 Client from PRM Client

When System 1 Client is installed on the same PC of PRM Client, the System 1 Client can be launched from PRM Client.

It can be launched from the context menu on Device Navigator or from a PLUG-IN window. It can also be launched from a maintenance alarm on Historical message window to check the details of the troubled devices on the System 1 Client windows.

Notify System 1 Messages to CS 3000

The messages initiated in System 1 can be notified to CS 3000 HIS. The messages can also be sent to CAMS (Consolidated Alarm Management Software) for HIS, so as the messages can be comprehensively managed by CAMS for HIS.

■ OPERATION ENVIRONMENT

● Hardware Environment

The Interface for GE's System 1 can run in the PC in which PRM Server is installed. For details, see the GS 33Y05Q10-32E.

● Software Environment

The Interface for GE's System 1 can run in the PC in which PRM Server is installed.

The revision number of PRM system should be R3.02 or later. The version of System 1 should be V6.5 or later.

System 1 Client should be installed in the same PC in which PRM Client is installed. System 1 Server cannot be installed in the PC in which PRM packages (PRM Client, PRM Server) Field Communication Server are installed.

(Note) When PRM and System 1 are connected, a System 1 OPC A&E Data Exporter (the software licenses are required for each connected destination) and the tool for exporting the System 1 system configuration, the Hierarchy Exporter, is needed. For displaying the System 1 Client contents on PRM Client, the System 1 Display Software is required.

■ MODEL AND SUFFIX CODE

Interface for GE Energy's System 1

		Description
Model	SSS7770	Interface for GE Energy's System 1 [Media model: SSSSM02 -C11]
Suffix Code	-S	Basic Software license
	-C	Multiple Software license (for two or more)
	1	Always 1
	1	English version

■ ORDERING INFORMATION

Specify model and suffix codes.

■ TRADEMARKS

- System 1, Bently Nevada, and Trendmaster are trademarks of General Electric Company.
- PRM is a registered trademark of Yokogawa Electric Corporation in the United States and Japan.
- CENTUM is a registered trademark of Yokogawa Electric Corporation.
- Ethernet is a registered trademark of XEROX Corporation.