

General Specifications

PM4S7770 Interface Package for GE Energy's System 1®



GS 30B05A22-01EN

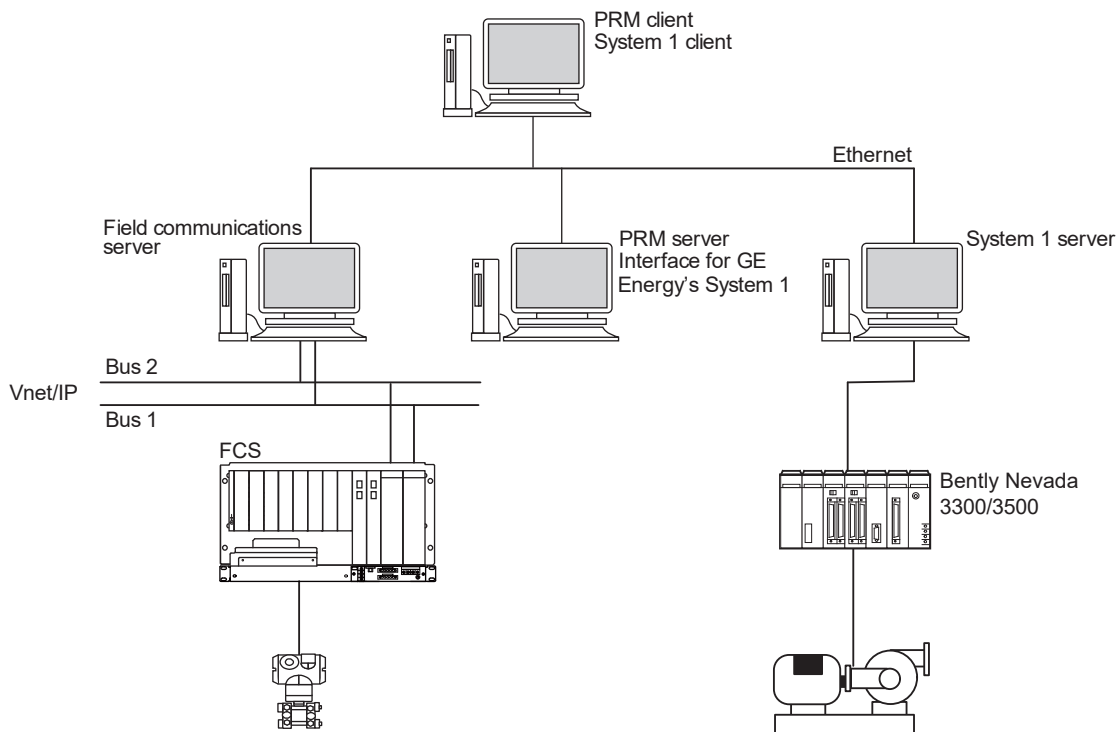
[Release 4]

OVERVIEW

The Interface for GE Energy'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:



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The Interface for GE Energy's System 1 can run on a computer 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 computer 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 computer in which PRM Client is installed.

■ SPECIFICATION

With Interface for GE Energy'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 computer 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 CENTUM VP

The messages initiated in System 1 can be notified to CENTUM VP 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

● Software Environment

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

The version of System 1 should be V6.5, 6.75, or 6.81. (*1) (*2)

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

*1: When using Version 6.5 of System 1, System 1 Client cannot be installed on a computer where PRM is resided.

*2: For using V6.75 or 6.81 of System 1, the System 1 client cannot be installed on a computer where PRM Server is resided.

● Hardware Environment

This package runs on a computer where PRM server (PM4S7700) is installed.

Refer to the GS "Plant Resource Manager (R4)" (GS 30B05A10-01EN) for the PRM server operating environment.

■ MODEL AND SUFFIX CODE

Interface Package for GE Energy's System 1

		Description
Model	PM4S7770	Interface Package for GE Energy's System 1
Suffix Codes	-V	Software license
	1	Always 1
	1	English version

■ ORDERING INFORMATION

Specify model and suffix codes.

■ TRADEMARKS

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