System 1* Version 6.90

Optimization and Diagnostics Software



Description

System 1* Software is a patented, modular machinery management platform for process and equipment optimization, condition monitoring and event diagnostics. The client/server-based architecture is both scalable and flexible. This allows you to focus on your most critical needs and then continue to expand your system by adding new application packages and system extenders. System 1 software integrates all of this into a single system, with a single display environment and common database structure.

The System 1 platform enables operators, equipment engineers, process engineers, instrument technicians, and other plant personnel to quickly identify, evaluate, and respond to important events to optimize the business impact. This increases equipment availability and reliability, and reduces maintenance costs.

A growing suite of specially-designed application packages exists to meet the needs of individual plant equipment and users. These packages supplement the System 1 Platform and support high-resolution data acquisition, trending, alarming, exception reporting, and user notification.

The highly modular architecture of the System 1 software facilitates the expansion of data acquisition capabilities and the addition of machinery/asset management tools. These tools provide connectivity to the Snapshot* for Windows® CE portable data collector, TDXnet*, TDe and TDI communications processors, 1701 FieldMonitor* system, OPC, Modbus® devices, Dynamic Scanning Module for the Trendmaster* Pro system, and Essential Insight.mesh*.

System 1 software also provides a suite of System Extender* applications to complement and expand the capability of the system. These applications include options for CMMS Interfaces (SAP PM and MRO Maximo® interfaces), Data Exporters (OPC A&E, OPC DA, and OLE Automation), Event Relay Card software, Smart Notifier, State-Based Analysis, AnomAlert* motor and generator anomaly detection, and The Bearing Expert™ software. In addition, the Decision Support* Studio with Rule Logic Results allows users to embed their domain knowledge into the system. These extender applications permit the system to evaluate real-time data, generate sophisticated alerts and alarms, and produce intelligent advisories that deliver Actionable Information* data to designated users.

The System 1 platform employs Microsoft® Server technology for data acquisition and Decision Support functionality. It also uses a specialized Microsoft SQL database design for fast data storage, event capture and history, equipment properties and configuration information. The system provides a variety of industry standard interfaces to integrate with control and automation applications. System 1 software has been developed specifically for the Microsoft Windows® 7/8/10/2008/2008 R2/2012/2012 R2 operating systems to provide users with a familiar interface and significant installed base of these industry standard operating systems.



Table 1: The System 1 Application Packages

	ruckuges
Application Name	Function
Turbo Machinery	Advanced on-line condition
,	monitoring and diagnostic
	software package for critical
	rotating machinery applications.
	Features sophisticated vibration
	diagnostics capabilities.
	Advanced on-line machine
Hydro Machinery	condition monitoring and
riyaro riaeriiriery	diagnostic software package for
	hydro turbines and generators.
	Included specialized diagnostics
	tools and measurement support.
Electrical/Multilin	Advanced on-line electrical
· ·	
Assets	equipment condition monitoring
	and diagnostic software package
	for motors, generators, and
Min al Tunalina -	transformers.
Wind Turbines	Advanced on-line machine
	condition monitoring and
	diagnostic software package for
	wind turbines.
Designation	Advanced on-line mechanical and
Reciprocating	performance condition monitoring
Compressors	and diagnostic software package
	for critical reciprocating machinery
	applications. Includes
	sophisticated Pressure-Volume
2 (analysis capabilities.
Performance	Provides plots associated to
Visualization	thermodynamic performance data
	(note: the Performance
	Visualization Application Package
	does not include the calculation of
	thermodynamic data). Optional
	pre-engineered calculation
	templates (Bently PERFORMANCE*
	software) are available for
	machines such as gas turbines,
	compressors, pumps, steam
6	turbines, and generators.
Portable Data	Portable walk-around application
Collector	supporting the Snapshot family of
	portable data collectors. This
	includes a two-channel, one-
	channel IS, and PDA portables for
	operator rounds.
Essential	Supports both Essential
Insight/Trendmaster	Insight.mesh and Bently Nevada*
Pro	Trendmaster Pro online scanning
	systems intended for managing
	essential and balance-of-plant
	machinery.
Static Data	Provides a suite of plots to manage
Management	static data collected using industry
	standard protocols, as well as from Bently Nevada protection systems.

Lubricant Analysis Data Import	Provides tools to import and view lube oil analysis reports, analysis alerts, analysis diagnostics to be used in data correlation and asset condition monitoring.
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Table 2: The System 1 System Extender Applications

Application Name	Function
CMMS Interfaces	Provides an interface to select
(MAXIMO and SAP) ¹³	Computerized Maintenance
(Management Systems. Includes
	ability to link to CMMS assets, view
	work history, Manual work
	request, and Automated work
	request.
Rule Logic Results	Decision Support rules use inputs and generate outputs (events, calculations, etc.). In order for rules to be processed, Rule Logic Results must be available in the system. This provides scalable real-time rule processing. ²⁸
State-Based Analysis	State-based monitoring provides
State-based Arialysis	more sophisticated diagnostics of
	machines, with the ability to
	define machine states that can
	control data storage, filter plot
	data, and help correlate process
	data with machinery data.
Smart Notifier	Smart Notifier is a stand-alone
	application that filters events
	much like Notification Plans but
	collects them in one place where
	each user can check on events for which he or she is responsible.
Event Relay Card and	The Event Relay Notification
Software	component can trip a relay in
Solivare	response to an event of a
	specified type, severity and asset
	location. Works with the Decision
	Support Application.
The Bearing Expert	Enhances configuration of
	machines with rolling element
	bearings by providing a bearing
	database. Identifies key
	parameters based on
	Manufacturer, model or
	dimension of the bearing. Software works with System 1
	Configuration. Install on the
	Configuration computer.
AnomAlert	Enables data collection via
	OPC from the AnomAlert
	Enterprise Server (AES). You
	must order 390125-01 for the
	AES software. Reference Data
	Sheet 286754-01 for
	2115G1 5001 24-01 101

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information regarding ordering the AnomAlert
hardware.

Table 3: The System 1 Data Importers

Туре	Function
TDI Transient	Provides dynamic, static, transient and steady state data from a 3500 TDI channel. There is no need to purchase a separate TDI Enabler. Applies to all TDI channels with a waveform enabled for transient data collection. (Exceptions are for channels used in Reciprocating Compressor and Hydro applications – see below.)
TDI Steady State	Provides dynamic, static and steady state data from a 3500 TDI channel. There is no need to purchase a separate TDI Steady State Enabler. Applies to all TDI channels with a waveform enabled for steady state data collection. (Exceptions are for channels used in Reciprocating Compressor and Hydro applications – see below.)
TDI Recip Steady State	Provides dynamic, static and steady state data from a 3500 TDI channel used in Reciprocating Compressor applications. There is no need to purchase a separate TDI Enabler. Applies to all TDI channels on the 3500/70M, 72M and 77M monitors.
TDI Hydro	Provides dynamic, static and steady state data from a 3500 TDI channel used in Hydro applications. There is no need to purchase a separate TDI Enabler. Applies to TDI channels on the 3500/46M that have waveforms enabled.
TDe Transient	Provides dynamic, static, transient and steady state data from a 3300 TDe channel. There is no need to purchase a separate TDe Enabler. Applies to all TDe channels with a waveform enabled for transient data collection
TDe Steady State	Provides dynamic, static and steady state data from a 3300 TDe channel. There is no need to purchase a separate TDe Steady State Enabler. Applies to all TDe channels with a waveform enabled for steady state data collection.
Portable Data	Provides dynamic and static data
Collector Points Trendmaster Pro	from portable data collector devices. Provides dynamic and static data
Points	from a Trendmaster Pro system.

DCS/Historian	Provides data from OPC and Modbus
Tags	devices.
Essential	Provides static temperature and
Insight.mesh Static	vibration data from an Essential
Points.	Insight.mesh network.
Essential	Provides dynamic vibration data
Insight.mesh	from an Essential Insight.mesh
Dynamic Points.	network.
Bently Nevada	Provides static data from channels
Monitor Static	on Bently Nevada monitors that do
Channels	not have a waveform enabled.
Dynamic Channels	Provides dynamic and static data
(Non TDI/TDe)	from communications processors
	other than 3500 TDI and 3300 TDe.
	Applies to channels that have
	waveforms enabled.
Electrical/Multilin	Provides all static and dynamic data
Devices	(if dynamic data is applicable)
	collected from a Multilin device.
	Supported Multilins include: G60
	Generator Management Relay*, 489
	Generator Management Relay*,
	269Plus Motor Management Relay*,
	369 Motor Management Relay*, 469
	Motor Management Relay*, M60
	Motor Management Relay, Power
	Quality Meter (PQM), T60
	Transformer Management Relay*,
	T35 Transformer Management
	Relay*, 745 Transformer
	Management Relay*, and 750
	Transformer Management Relay*
	products.

Table 4: The System 1 Data Exporters

Туре	Function			
Data Exporters	Exports real-time data from System			
	1 to the DCS, Historians, etc.			
	Includes OPC A&E, OPC DA and OLE.			
Yokogawa PRM™	Exports real-time data and			
	configuration information from			
	System 1 to Yokogawa's Plant			
	Resource Manager (PRM) software			
	via OPC interface.			

Table 5: Additional System Components

Application Name	Function
Data Acquisition	Communicates and acquires data from many sources.
Database (SQL Server)	Stores all historical machinery data, asset information, system hardware, and enterprise configuration.

Application Name	Function				
Display and Configuration	Displays all data on any connected data acquisition or database station. Configures the system hardware and software.				
File Based Configuration	Allows rapid configuration of large number of process points by importing/exporting to Microsoft Excel. (System1 v6.90 supports Excel version 2007, 2010, 2013 and 2016)				
System 1 Management Console	Provides system administration and system health & performance functionality.				
Essential Insight.mesh Management Gateway	Provides access to an Essential Insight.mesh wireless network within System 1. One license per management gateway (wireless network) is required.				

The System 1 client/server architecture allows you to place Display (client) stations anywhere within your plant's Local Area Network (LAN), Wide Area Network (WAN), or Remote Access Server, providing the ability to display and share data with one or more data acquisition (server) stations.

System 1 software can share data with plant control and automation systems using OPC, or OLE Automation protocols. Trendmaster Pro DSM can export data to control and automation systems using Modbus. Data exporters that provide formatted output of all static variables and status data support a network interface. System 1 software supports time-synchronization with other systems (e.g., process control or machine control systems) using appropriate computer peripherals and software available from GE.

Specifications

System

Minimum Computer Requirements

System 1 should only be installed and configured on computing platforms approved by Bently Nevada. If installed on non-approved platforms, technical support will not be available.

For demanding online DAQ (Data Acquisition) installations, we strongly recommend that you use an approved and tested server

grade computer. For a list of approved servers, please contact your local Sales and Service representative.

For limited portable, or Display/Configuration installations, the following requirements are the recommended minimum for the System 1 software to operate. If your system does not meet these requirements, the performance of the application may not be acceptable, and in some cases the software will not run properly. We strongly recommend that you contact your local Sales and Service representative for a list of tested and approved workstations.

2.83 GHz Intel Xeon processor

2 GB RAM

250 GB hard disk drive

Available USB port

DVD-ROM drive

256 MB video card

System 1 is supported on **Virtual Machines**. Contact tech support for the latest whitepaper on using System 1 on virtual machines.

Operating System¹³

Data Acquisition; Database (Microsoft SQL Server® ^{10, 12}) Software

Windows Server® 2003 SP2

Windows Server 2008 SP2

Windows Server 2008 R2 x6415

Windows Server 2012 x6426

Windows Server 2012 R2 x64²⁷

Display; Configuration; Data Acquisition (Small Snapshot Only) Software TDI, TDXnet, TDIXconnX*, TDe

Supported Portable/Scanning Types:

> Trendmaster Pro DSM Essential Insight.mesh Snapshot Portable

Portable IS

Snapshot Clipboard* via PDA

Note: See Snapshot Clipboard data sheet, part number 162458-01, for additional devices.

Maximum number of Communications Processors (CP)/ Equivalent FieldMonitor units per data acquisition station:

12

Maximum number of TrendMaster Pro DSMs per data acquisition station:

150

Maximum number of nodes in an Essential Insight.mesh network:

100

Maximum number of points (100 nodes X 4 points per node) in an Essential Insight.mesh network:

400

Maximum number of Essential Insight.mesh networks supported per DAQ (without exceeding 2500 total points per DAQ limit):

5

Maximum number of Modbus® devices per data acquisition station:

Windows XP SP 3

Windows Vista SP2

Windows 7

Windows 8 and 8.127

Windows 10²⁹

Windows Server 2003 SP2
Windows Server 2008 SP2¹³
Windows Server 2008 R2 x64¹⁵
Windows Server 2012 x64²⁶

Windows Server 2012 R2 x6427

Number of simultaneous Display/Configuration clients for Data Acquisition /SQL Server Station

Windows Server® 2003/ Windows Server 2008/2008 R2/2012

Virtually unlimited simultaneous clients restricted by licenses/CALs

Windows XP / Vista /Windows 7

10 simultaneous clients restricted by licenses/CALs

Note: When ordered from GE, server operating systems come with 5 Client Access Licenses (CALs). Further, server operating system licenses are restricted to only be used for GE applications or in support of GE applications.

Supported Hardware

Systems may support the following hardware depending on the ordered Application Packages. System limitations are listed below.

Supported Monitor Systems and Communication Processor Types:

3500, 3300, 2201, 1701

150

Maximum number of FieldMonitor units per data acquisition station:

36 (3 FieldMonitor units = 1 TDXnet CP)

Maximum number of Snapshot devices per data acquisition station:

Unlimited

Note: 1 Snapshot DAQ per Enterprise

Maximum number of configurable machine trains:

Unlimited

Maximum number of configurable portable points per enterprise:

20,000 portable points

Note: 1 Snapshot DAQ per Enterprise

Maximum number of configurable online/scanning points (includes Trendmaster

Pro, Essential Insight.mesh and communication processor points) per data acquisition station:

2500 total combined online/scanning points

Maximum number of configurable points per enterprise:

45,000 (Limited only by the maximum number of points per data acquisition station)

Maximum number of lube test results:

20,000:

Total portable points + lube results may not exceed 20,000

Data Historian Maximum Limits (Process Data Only) Mid-Range Server

5,000 configured tags/DAQ server

SQL Server on Mid-Range Server

5000 events/second

High Range Server (requires 4GB RAM)

25,000 tags/DAQ server

SQL Server on High Range Server (requires 4 GB RAM)

Maximum trend file length

Unlimited; dependent on available system hard drive space.

Maximum number of system/alarm events per data acquisition station

Unlimited; dependent on available system hard drive space.

Maximum number of concurrent viewable events

10,000 events viewable within event list.

Network Support

Ethernet

Network Transport Protocols

TCP/IP

Display Plots

You can select the following plots from stored data, Alarm Event Data, or Baseline Data. You can also configure Display to show only the applicable plots for any given application package.

- Current values
- Bararaph
- Machine train diagram

- Alarm/System event list
- Trend / Multivariable trend
- Tabular list
- Timebase (with option for superposition of baseline data)
- Orbit / Timebase (with option for superposition of baseline data)
- Orbit (with option for superposition of baseline data)
- Shaft average centerline
- Spectrum / Full spectrum (with option for superposition of baseline data)
- X vs. Y
- Waterfall / Full waterfall
- Polar/Acceptance region
- Bode
- Cascade / Full cascade
- Reciprocating compressor plots
- Rod position
- Crank angle waterfall
- Crank angle overlay
- Compressor maps
- Exhaust gas temperature (EGT)
- Performance map
- Rotor stator profile
- Rotor shape
- Hydro air gap
- Phasor
- Histogram
- Octave

Languages

System1 clients – Display, Configuration, Smart Notifier and DAQ Connection manager – have been translated into 10 non-English languages. A language license is per Enterprise. The supported operating system for non-English translations is the English version of Microsoft Windows. The Online Help system is available only in English.

- Chinese (Simplified)
- Japanese

- Korean
- Spanish (European)
- German
- French (France)
- Russian
- Italian
- Finnish
- Swedish

Ordering Information

Step 1

3060/00 System 1 3060/00-AXX

A: Order Type

- **01** New order (DVD, key, binder)
- **02** Expansion order (license key)
- 0 3 Core System 1 software (DVD and binder)
- 98 Replacement licenses (key)
- 99 Update (DVD)

Step 2 (Software)

3060/01 System 1 Software and Licenses 3060/01-AXX-BXX-CXX-DX-EXX-FXX

A: Order Type

- **01** New order (DVD, key, binder)
- **02** Expansion order (key only)
- O 3 Core System 1 software (DVD and binder)
- **98** Replacement licenses (key)
- 99 Update (DVD)

Note: Option A is for information only and is the value chosen under

Step 1.

B: License Protection Type

00 None

01 USB key disk

C: Customer Type

01 Not available

02 All

D: Quantity

XX Number of new Enterprise orders, from 1 to 10.

Example:1 = 1 order

10 = 10 orders

Note: Option D determines the quantity of new Enterprise orders (sets of DVDs and binders) and applies

DVDs and binders) and applies only to the Option A -01 option.

E: Training Accessories

00 None

F:		01 02 03	Machine Library CBT Data Acquisition CBT Machine Library and Data Acquisition CBT	H:		Essential Insigh	nt/TM Pro XXX	Number 0 to 10	er of new licenses, from 00. ble: 0 0 0 = 0 licenses 1 0 0 = 100 licenses
		XX	Number of printed manual, from 1 to 10. Example:0 1 = 1 printed set 10 = 10 printed sets Printed manuals include the following: the System 1 Software	l:		Static Data Ma	nageme XXX	Numb 0 to 10	er of new licenses, from
			Installation Quick Start Guide and System 1 Software Operations Quick Start Guide.	J:		Lubricant Anal	ysis Dato XXX	Numb 0 to10	er of new licenses, from 0
	0/10 Enterprise <i>i</i>		-					Examp	ble:0 0 0 = 0 licenses 1 0 0 = 100 licenses
		-CXXX-	DXXX-EXXX-FXXX-GXXX-HXXX-						1 0 0 = 100 licenses
IXX	K-JXXX			306	60	0/12 Display			
A:	Turbo Machinery		Number of new lineares from)/12-AXXXXX-B	XXXXX		
		XXX	Number of new licenses, from 0 to 100.	A:		Number of Dia	anostic (Display	Client Access Licenses
			Example: 0 0 0 = 0 licenses			Tramber of Dia	XXXX		umber of licenses, from
_			1 0 0 = 100 licenses				_		to unlimited
B:	Hydro Machiner	y x x x	Number of new licenses, from				Exam		0 0 0 0 = 0 licenses 9 9 9 8 = 99998 licenses
		^^^	0 to 100.				0000		
			Example: 0 0 0 = 0 licenses				9999		Inlimited licenses per Interprise
			100 = 100 licenses	B:		Not Available		_	interprise
C:	Electrical/Multili								
		XXX	Number of new licenses, from 0 to 100.			0/13 Data Expo			
			Example: 0 0 0 = 0 licenses	306	60	D/13-AXXX-BXX	X-CXXX-	DXXX-E	XXX-FXX
			1 0 0 = 100 licenses	A:		OPC A&E			
D:	Wind Turbines						XXX	Numb 100.	er of licenses, from 0 to
		XXX	Number of new licenses, from						ole: 0 0 0 = 0 licenses
			0 to 100.						100 = 100 licenses
			Example: 0 0 0 = 0 licenses 1 0 0 = 100 licenses	B:		OPC Legacy		NIl.	(1)
E:	Reciprocating Co	omores					XXX	Numb	er of licenses, from 0 to
۲.		XXX	Number of new licenses, from						ole: 0 0 0 = 0 licenses
			0 to 100.						100 = 100 licenses
			Example: 0 0 0 = 0 licenses 1 0 0 = 100 licenses	C:		OPC Legacy to	A&E Upg	grade	
_	- ·						XXX		er of licenses, from 0 to
F:	Performance Vis	sualizat XXX	non Number of new licenses, from					100.	ble:0 0 0 = 0 licenses
		^^^	0 to 100.					LAGIII	100 = 100 licenses
			Example: 0 0 0 = 0 licenses	D:		Not Available			
			100 = 100 licenses	J.					
G:	Portable Data C			E:		OLE			CI:
		XXX	Number of new licenses, from 0 to 100.				XXX	Numb 100.	er of licenses, from 0 to
			Example: 0 0 0 = 0 licenses						ole: 0 0 0 = 0 licenses
			100 = 100 licenses						100 = 100 licenses

F: System 1 Enterprise Connection

00 None 01 Custom

02 Yokogawa PRM™

3060/14 DAQ

3060/14-AXXX-BXX-CXX

A: Data Acquisition Licenses

XXX Number of licenses, from 0 to 500, up to 10 per Enterprise Example: 0 0 0 = 0 licenses 5 0 0= 500 licenses

B: Microsoft SQL Server 2014 with 5 CAL¹²

Number of copies of SQL Server with 5 CAL licenses, from 0 to 25

C: Microsoft SQL Server 2014 with 10 CAL¹²

XX Number of copies of SQL Server with 10 CAL licenses, from 0 to 25

3060/15 Data Importers

3060/15-AXXXXX-BXXXXX-CXXXXXX-DXXXXX-EXXXXXX-FXXXXXX-HXXXXX-IXXXXXX-JXXXXXX-KXXXXX-LXXXXXX-MXXXXXX-NXXXXX

A: TDI Transient Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

B: TDI Steady State Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

99998 = 99998 licenses

C: TDI Recip Steady State Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

99998 = 99998 licenses

D: TDI Hydro Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

9 9 9 9 8 = 99998 licenses

E: TDe Transient Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

F: TDe Steady State Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

9 9 9 9 8 = 99998 licenses

G: Portable Data Collector Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

9 9 9 9 8 = 99998 licenses

H: Trendmaster Pro Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

9 9 9 9 8 = 99998 licenses

I: DCS/Historian Tag Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 00000 = 0 licenses

99998 = 99998 licenses

J: Bently Nevada Monitor Static Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

K: Dynamic Channel (non-TDI/TDe) Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

L: Electrical/Multilin Device Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

M: Essential Insight Static Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

N: Essential Insight Dynamic Channel Licenses

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

3060/16 System Extenders

3060/16-AXX-BXX-CXX-DXX-EXX-FXXXXX-GXX-HXX-LXXX

A: CMMS MAXIMO Links¹³

00 None

01 20 links

02 50 links

03 100 links

04 250 links

05 500 links

06 Unlimited links per Enterprise

B: CMMS SAP PM (pre-Version 4.7) Links

00 None

01 20 links

0 2 50 links

03 100 links

04 250 links

0.5 500 links

06 Unlimited links per Enterprise

C: CMMS SAP PM (Version 4.7) Links

00 None

01 20 links

02 50 links

03 100 links

04 250 links

0.5 500 links

06 Unlimited links per Enterprise

D: Rule Logic Results

00 None

01 50 results

02 150 results

03 250 results

04 500 results

05 Unlimited results per

Enterprise

E: State-Based Analysis Machine Trains

00 None

01 5 machine trains

02 10 machine trains

03 20 machine trains

04 40 machine trains

05 80 machine trains

06 100 machine trains

07 Unlimited machine trains per

Enterprise

F: Smart Notifier

XXXXX Number of client

accesses, from 0 to

unlimited

Example: 0 0 0 0 0 = 0 licenses

99998 = 99998 licenses

99999 Unlimited accesses

G: Event Relay

00 None

0 2 Relay software and hardware

H: The Bearing Expert (REB Database) Licenses¹⁶

XXXXX Number of licenses, from

0 to 99998

Example: 0 0 0 0 0 = 0 licenses

9 9 9 9 8 = 99998 licenses

Note: The Bearing Expert software works with System 1 Configuration and is sold on a per user rather than concurrent user basis. A single license for The Bearing Expert software may not be shared or used concurrently on different computers. Each user must have their own license. Please refer to The Bearing Expert License Agreement for further details.

L: AnomAlert

Number of AnomAlert Devices, from 0 to 100

Note: You must order 390125-01 for the AES software. Reference Data Sheet 286754-01 (motors) or 288496-01 (generators) for information regarding ordering the AnomAlert hardware.

3060/18 Essential Insight.mesh Management Gateways 3060/18-AXXX

A: Management Gateways

XXXX Number of management

gateways, from 0-2000

The following options are ordered separately from the 3060/00 catalog number.

3060/56 DSM Modbus Exporter 3060/56-AXX

A: Order Type

001 DMS Modbus – 100 Tags

005 DMS Modbus – 500 Tags

025 DMS Modbus – 2500 Tags

050 DMS Modbus – 5000 Tags

100 DMS Modbus - 10000 Tags

200 DMS Modbus – 20000 Tags

300 DMS Modbus – 30000 Tags

Note: Ordering this option includes the System 1 software DVD and DSM

license key.

3060/65 Data Manager 2000 Migration 3060/65-AXX-BXX

A: Order Type

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		01	Vibration Data Only			09	Finnish
		02	Vibration & Process Data			10	Swedish
B:	Licensing	-	7.5. 4.6.7. 6.7. 6.6666 2 4.64	F:	3rd Language		
٥.	Licensing	хх	Number of communications	••	ora Language	00	None
			processors, up to 12			01	Chinese
			Example: 1 2 = 12 comm.			02	Japanese
			processors			03	Korean
Note	e: A01 and A0)2 includ	e DVDs, License Key, Binder, 2X			04	Spanish
			ollowing manuals: the System 1			05	German
			art Guide, System 1 Software			06	French
	rations Quick Star O Upgrade Manua		and the System 1 Data Manager			07	Russian
2000	opgrade Mariad	1.				08	Italian
700	0/00 Custom 1 I					09	Finnish
	0/90 System 1 l	_	=			10	Swedish
306	0/90-AXX-BXX-0	CXX-DX	X-EXX-FXX-GXX	G:	4th Language	10	Swedisii
Note	es: No language	order is i	required if the desired System 1	G.	4tii Luiiguuge	00	None
	language is E		equired in the deemed eyeterin I			01	None Chinese
	The supported	d Operat	ing System is the English version of				
	Microsoft Win		3 ,			02	Japanese
	The Online He	lp syste	m is available only in English.			03	Korean
A:	Order Type					04	Spanish
,	order type	01	New order (CD, key, binder)			05	German
		02	Expansion order (key only)			06	French
		03	Core Language CD (CD and			07	Russian
		0 3	binder)			8 0	Italian
		98	Replacement licenses (key)			09	Finnish
		99	Update (CD)			10	Swedish
B:	License Type	3 3	opuate (cb)	Sv	stem 1 Softwo	re Plo	ıtform
υ.	LICCIISC TYPC						
	,,	0.0	None	•			
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	Customer Type	01 01 02 00 01 02 03	Not Available All None Chinese Japanese Korean	Not may nee Any con or E eac 301	e that all on-line sy y order through th d one Client Acces computer with a S nects to a System interprise editions h.	ystems r e 3010/1 ss Licens System 1 1 datab must ha	equire MS SQL Standard, which you .1 C option or 3060/00. You will e (CAL) per client computer . client or DAQ software that ase running on SQL Server Standard we one Client Access License (CAL)
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	Customer Type	01 01 02 00 01 02 03 04 05 06 07 08 09	Not Available All None Chinese Japanese Korean Spanish German French Russian Italian Finnish Swedish	Not may nee Any con or E eac 301	e that all on-line sy y order through the d one Client Acces computer with a s nects to a System nterprise editions h. 1.0/11 System 1 S 1.0/11-AXX-BXX-(3-LXX-MXX-NXX-	systems re a 3010/16 st. Licenson System 1 1 datable must ha CXX-DXX-DXX station/00011	equire MS SQL Standard, which you .1 C option or 3060/00. You will e (CAL) per client computer . client or DAQ software that ase running on SQL Server Standard we one Client Access License (CAL) e Platform X-EXX-FXX-GXX-HXX-IXX-JXX- /Platform (No Monitor Included) No workstation/platform Professional workstation (no monitor) ² High-performance HP server (tower, no monitor) ^{7, 11, 21, 25} High-performance HP server
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D:	Customer Type 1st Language	01 01 02 00 01 02 03 04 05 06 07 08 09 10	Not Available All None Chinese Japanese Korean Spanish German French Russian Italian Finnish Swedish None Chinese	Not may nee Any con or E eac 301	e that all on-line sy y order through the d one Client Acces computer with a S nects to a System nterprise editions h. 1.0/11 System 1 S 1.0/11-AXX-BXX-(3-LXX-MXX-NXX-	systems re a 3010/1 as Licens. System 1 1 datable must ha coftwar CXX-DXX oxx station, 0 0 0 1 0 4 0 5	equire MS SQL Standard, which you .1 C option or 3060/00. You will e (CAL) per client computer . client or DAQ software that ase running on SQL Server Standard we one Client Access License (CAL) e Platform X-EXX-FXX-GXX-HXX-IXX-JXX- /Platform (No Monitor Included) No workstation/platform Professional workstation (no monitor) 2 High-performance HP server (tower, no monitor) 7, 11, 21, 25 High-performance HP server (rack, rack keyboard/drawer, no monitor) 4, 7, 11, 18, 22, 23, 25
D:	Customer Type 1st Language	01 01 02 00 01 02 03 04 05 06 07 08 09 10	Not Available All None Chinese Japanese Korean Spanish German French Russian Italian Finnish Swedish None Chinese Japanese	Not may nee Any con or E eac 301	e that all on-line sy y order through the d one Client Acces computer with a S nects to a System nterprise editions h. 1.0/11 System 1 S 1.0/11-AXX-BXX-(3-LXX-MXX-NXX-	systems re 3010/1 is Licensi System 1 databa must ha Softwar CXX-DXX OXX station, 0 0 0 1 0 4	equire MS SQL Standard, which you .1 C option or 3060/00. You will e (CAL) per client computer . client or DAQ software that case running on SQL Server Standard eve one Client Access License (CAL) E Platform X-EXX-FXX-GXX-HXX-IXX-JXX- (Platform (No Monitor Included) No workstation/platform Professional workstation (no monitor) 2 High-performance HP server (tower, no monitor) 7, 11, 21, 25 High-performance HP server (rack, rack keyboard/drawer, no monitor) 4, 7, 11, 18, 22, 23, 25 High-performance HP server
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D:	Customer Type 1st Language	01 01 02 00 01 02 03 04 05 06 07 08 09 10 01 02 03 04	Not Available All None Chinese Japanese Korean Spanish German French Russian Italian Finnish Swedish None Chinese Japanese Korean Spanish German	Not may nee Any con or E eac 301	e that all on-line sy y order through the d one Client Acces computer with a S nects to a System nterprise editions h. 1.0/11 System 1 S 1.0/11-AXX-BXX-(3-LXX-MXX-NXX-	systems re a 3010/1 as Licens. System 1 1 datable must ha coftwar CXX-DXX oxx station, 0 0 0 1 0 4 0 5	equire MS SQL Standard, which you .1 C option or 3060/00. You will e (CAL) per client computer . client or DAQ software that ase running on SQL Server Standard ve one Client Access License (CAL) e Platform X-EXX-FXX-GXX-HXX-IXX-JXX- /Platform (No Monitor Included) No workstation/platform Professional workstation (no monitor) ² High-performance HP server (tower, no monitor) 7. 11, 21, 25 High-performance HP server (rack, rack keyboard/drawer, no monitor) ^{4, 7, 11, 18, 22, 23, 25} High-performance HP server (rack, rack keyboard only, no monitor) ^{5, 7, 11, 18, 22, 23, 25} High-performance HP server
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Italian

		10	High performance DELL server (rack, rack keyboard/drawer,
		11	no monitor) 7, 11, 18, 24, 25 High performance DELL server (rack, rack keyboard only, no
		12	monitor) 7, 11, 18, 24, 25 High performance DELL server (rack, no keyboard/drawer, no monitor) 7, 11, 18, 24, 25
B:	Monitor	0.0	No monitor
		03	22" TFT flat panel monitor
		0 4	24" TFT flat panel monitor
C:	Microsoft SQL S	Server (f	or servers only) ⁸
	•	0 0	None
		03	Standard SQL 2014 embedded – 5 CALs ^{10, 29}
		0 4	Standard SQL 2014 embedded – 10 CALs ^{10, 29}
D:	Printer		
		00	No printer
		03	110V laser (duplex, parallel, USB, and Ethernet)
		0 4	220V laser (duplex, parallel,
		•	USB, and Ethernet)
		06	220V color laser (USB)
		07	110V color laser (USB, and
		0.8	Ethernet) 220V color laser (USB, and
		00	Ethernet)
E:	Time Synchroni	ization	
	·	00	No time synchronization
		01	Client software (1 license)
		10	Client software and NTP time server
		20	IRG-B time card
F:	Serial Commun	ication	Card (for servers only)8
		00	No serial communication card
		01	RS232 serial communication card
		02	RS232/RS485 serial
			communication card
G:	Network Interf	ace Card 00	
		01	No network interface card Dual port NIC (for servers
		~ -	only) ^{1,8}
		02	Single port NIC (for
	Dardon de la C		workstations only) ⁹
H:	Redundant Cor	nponen 00	ts None
l:	Uninterruptible		
	,	0.0	N- LIDC

00

No UPS

- 01 110V 1440VA rack 2U (North America)
 02 110V 1440VA tower (North America)
 03 220V 1500VA tower (international)

 Second Processor Card
 00 No second processor card
- Sound Adapter and Speakers

 0 0 No sound adapter and speakers
- 0 1 Sound adapter and speakers
 Backup Device / Drives (for servers only)^{8,18}
 0 0 No backup device
 - 01 HP LTO Tape Backup02 Dell LTO Tape Backup
- $\begin{array}{ccc} \textbf{M:} & \text{Event Relay (for servers only)}^8 \\ & & \textbf{0.0} & \text{No event relay hardware} \\ & & \textbf{0.1} & \text{Event relay hardware} \end{array}$
- N: Addition Memory (for servers only)⁸
 0 0 None
 0: Remote Access (for servers only)^{6, 7, 8}
 - No remote access offering
 2X Remote Application Server
 + 15 concurrent users + 1 yr
 support
 - Remote Desktop CALs (for servers only)^{8, 19}

 XX

 Number of copies Microsoft

 RDS 5 user CALs for Windows
 2008, 2008 R2, 2012, 2012 R2.

 Quantity 0-10.

Footnotes:

- 1 When ordering the additional network card, note that the highend servers provide 4 available network ports. Ordering an additional card will provide 5 or 6 network ports and is not supported on the same purchase order line item.
- 2 You can order this workstation for Snapshot systems with 2000 or fewer points, or for a Display or Configuration workstation.
- 3 This footnote has been deleted.
- 4 You should order the 'Rack Keyboard/Drawer' option for the rack mount server when using the integrated keyboard/drawer and adjustable rail rack option kit in a non-Bently Nevada cabinet.
- 5 You should order the 'Rack Keyboard only' option for the rack mount server when using the standard keyboard with built-in mouse in a Bently Nevada cabinet.
- 6 You cannot order 2X Remote Application Server when ordering the workstation computer.
- 7 When ordering the high performance server to run DAQ and Remote Access, it is recommended to limit the number of Communication Processors to 6 with no more than 1500 online or scanning points.
- 8 'For Servers Only' options are not supported in the workstation computer. Note that the high-end servers already come standard with a redundant power supply and fan and 32GB of RAM.
- 9 'For Workstations Only' options are not supported in the server computers.
- 10 Standard SQL Embedded CALs (Client Access Licenses) can only be ordered with a System 1 Server platform. Starting in Sept 2015, System 1 version 6.90 and later will ship with SQL Server 2014. This version of SQL can only be used for GE software applications and can only be installed by GE on GE premises.
- 11 A restricted Microsoft embedded operating system license now comes with the servers (64 bit Windows Server 2012 R2). It restricts the use of the operating system for only GE applications or support of GE applications. In other words, this Operating System license cannot be used for any application other than for use with GE products unless the end user purchases an Operating System license.
- 12 Standard SQL Royalty CALs (Client Access Licenses) can only be ordered with the System 1 Software options 3060/00 A01 or A03. Note that SQL Server 2014 will ship with System 1 version 6.90 and later, starting in Sept 2015. This Royalty version of SQL can only be used for GE software applications and can be installed by end users.
- 13 Interface to Maximo is not supported on Windows 2008 server.
- 14 Snapshot devices can communicate only via Ethernet on Windows Vista, Windows 7 and Windows Server 2008/2008 R2

- and later. The exception to this is the Snapshot IS, which can communicate via serial to the Snapshot IS Connection Manager tool (available at www.bntechsupport.com).
- 15 System 1 v6.81 and later has full support for 64 bit Windows Server 2008 and 2008 R2 as well as 64 bit versions of SQL Server. Version 6.88 also supports Windows 2012 and v6.89 and later also supports Windows 2012 R2.
- 16. Starting with v6.81, the Bearing Expert has been updated to v2.60.2. This version works with Windows 7 as well as Windows XP and Vista. Note that the Bearing Expert is not supported on server operating systems.
- 17. This footnote has been deleted.
- 18. The LTO tape drives use 800GB LTO tape cartridges.
- 19. Note 2X Remote Application Server does not include the Microsoft Remote Desktop Services CALs. A sufficient number of these RDS CALs to cover the expected number of concurrent users should be purchased separately.
- 20. This footnote has been deleted.
- 21. The high end tower server is an HP ML350p G9 server with 64 bit Windows Server 2012 R2, two 300GB drives and four 600GB drives with 64GB RAM. See document #107M2211 for details.
- 22. The high end rack mount server is an HP DL380p G9 (2U) server with 64 bit Windows Server 2012 R2, two 300GB drives and four 600GB drives with 64GB RAM. See document #107M2212 for details.
- 23. The HP DL380p G9 rack server has an overall length of 29" (736mm) and is a tight fit in a standard 800mm cabinet. If the depth will be a problem in your planned installation, please order one of the DELL options.
- 24. The DELL high performance rack server is the R530 model with 64 bit Windows Server 2012 R2, two 300GB drives and four 600GB drive with 64GB RAM. See document 107M2213 for details. The overall depth of this server is 26.2" (669mm).
- 25. Starting in March 2016, Excel 2013 ISV Royalty edition will be pre-installed on the servers.
- 26. System 1 v6.88 and later support Windows Server 2012 and also SOL 2012.
- 27. System 1 v6.89 and later support Windows Server 2012 R2 and Windows 8 and 8.1.
- 28. The Decision Support Studio Developer Edition is included free with System 1 v6.87 and later.
- 29. System 1 v6.90 and later support SQL 2014 and Windows 10.

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Pentium is a trademark of Intel Corporation.

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