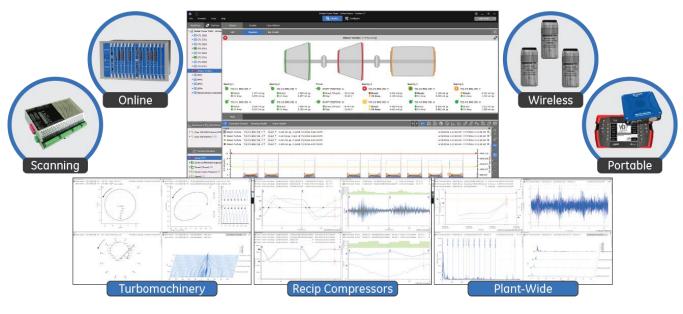


Overview

System 1* represents GE Bently Nevada's flagship condition monitoring solution that seamlessly integrates with our industry leading products including online and portable devices. System 1 provides scalability by adapting to the condition monitoring requirements at your facility, as well as flexibility by connecting to any Bently Nevada's field devices. Our products are designed for diverse applications and equipment failure modes at industrial facilities. We offer flexible packages ranging from portable to comprehensive plant-wide condition monitoring. We recommend understanding your equipment and defining your operation and maintenance goals first. Then, choose the software package and field devices that help you achieve those goals.





Process

A successful condition monitoring program requires equipment knowledge including an understanding of failure modes and operational criticality, together with a cross functional team, process rigor, and enabling technologies. Bently Nevada offers flexible solutions ranging from product delivery and deployment services to supporting service agreements through which we partner with you to manage your condition monitoring program.



Bently Nevada

People





System 1* Package Ordering (Perpetual License)

Premium [Highly Critical]

3071/10 System 1 Software Premium Package 3071/10-AA-BB-CC

AA: Software Package

01 - Premium Package

02 - Premium+ Package

BB: Quantity of Display Clients

01 - Single Client Package

05 - Small Package [6 Clients]

10 - **Medium** Package [11 Clients]

15 - Unlimited Clients

CC: Quantity of Server Licenses

- Numeric Entry $[1 \rightarrow n]$

Advanced [Critical]

3071/05 System 1 Software Advanced Package 3071/05-AA-BB-CC

AA: Software Package

01 - Advanced Package

02 - Advanced+ Package

BB: Quantity of Display Clients

01 - Single Client Package

05 - Small Package [6 Clients]

10 - **Medium** Package [11 Clients]

15 - Unlimited Clients

CC: Quantity of Server Licenses

- Numeric Entry $[1 \rightarrow n]$

Fundamental [Less Critical]

3071/01 System 1 Software Fundamental Package 3071/01-AA-BB

AA: Quantity of Display Clients

01 - Single Client Package

05 - **Small** Package [6 Clients]

10 - Medium Package [11 Clients]

15 - Unlimited Clients

BB: Quantity of Server Licenses

- Numeric Entry [1 -> n]

Language Packs

3071/91 System 1 Non-English Languages 3071/91-AA

AA: S1 Evolution Language Options¹

01 - **German** v17.2

02 - Simplified Chinese v17.2

03 - **Russian** v17.1

04 - **Spanish** v17.2

05 - Brazilian Portuguese v17.1

06 - **Japanese** v16.2

07 - French v16.2

(AA) What is a language option?

System 1 supports multiple languages. The user interface appears in the chosen language. Newer versions of the software may include some English text.

Trial License

3071/99-02 System 1 External Trial

Additional Details

Package	Online Continuous CM	Scanning & Process CM	Portable CM
Premium+	✓	✓	✓
Premium	✓	✓	
Advanced+		✓	✓
Advanced		✓	
Fundamental			✓

What are + packages?

Order the System 1 Premium+ and Advanced+ packages so that you can use portable data collectors in addition to the online devices.

What is a System 1* Display Client?

A System 1 Display Client can connect to the System 1 Server residing locally on the same computer or remotely via network access. Local clients can have full access to the condition monitoring database. Remote clients can connect to a condition monitoring database only when direct or networked access to the server is available.

What is a System 1* Server?

A System 1 Server may contain one or more condition monitoring databases accessible from one or more Display Clients. Historical data and configuration structure reside on the server. Hence, the databases are always available. Online data collection is restricted to a single database at a time.



ি Get Connected - Device Ordering (Perpetual License)

3500 Device Series

3071/11-AA-BB-CC-DD 3500 Series Device Import

AA: 3500 Devices - Turbomachinery (Qty #1→n)



Monitor turbomachinery. Also monitor general purpose machines when slots available in device.

BB: 3500 Devices - General Machines (Qty #1→n)



Monitor general purpose machines. Also monitor turbomachinery or reciprocating compressors when SUSD data not required.

CC: 3500 Devices - Recip Machines (Qty $#1 \rightarrow n$)



Monitor reciprocating compressors. Also monitor turbomachinery and general purpose machines when slots available in device.

(AA-CC) 3500 "Full" and "Mini" Racks

					Su	ppo	orte	l be	Mor	nito	rs							Do	ata		
Dash Option	/22 - TDI	/25 - KPH	/32 - Relay 4ch	/33 - Relay 16ch	/40 - TSI	/42 - Extended TSI	/44 - Aeroderivative	/45 - Position	/50 - Tachometer	/60, /61 - Temperature	/62 - Process Variable	/64 - Dynamic Pressure	/65 - Temperature 16 ch	/70 - Recip Impulse/Velocity	/72 - Recip Rod Drop/Position	/77 - Recip Cylinder Pressure	SUSD (Transient) Data	Alarm Data	Waveform Data	Trend (Steady-State) Data	
AΑ	Х	Х	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х				×	X	X	X	
вв	Х	Х	Х	Х	Х	Х	Х	×	Х	Х	Х	Х	Х	Х	Х			×	×	×	
CC	×	×	×	×	×	×	×	Х	×	×	×	Х	×	×	×	Х	×	×	×	×	l

DD: TDI Secure Devices [/42E /45E /PV] (Qty $\# - 1 \rightarrow n$)



Recommended for monitoring machines that cannot be natively connected to System 1 via standard devices (3rd party HW, Cyber, etc.)

✓ 24 Vib + 24 Process points + 4 Tachs

Distributed Device Series

3071/12-AA Distributed Device Import

AA: ADAPT 3701 /40 /44 /46 (Qty # - 1→n)



12 simultaneous monitoring points + 2 Tachs 1 sec trend / 10 min waveform data capture

High res alarm and SUSD data capture

System 1 Classic Connector

3071/60-AA System 1 Classic Connector

AA: System 1 Classic Connector (Qty # - 1→n)

Connect to legacy Bently Nevada Devices, including TrendMaster, TDXNet, 1701 FMIM

Condition Monitoring & Basic Protection

3071/13-AA-BB-CC CM & Basic Protection Device

AA: vbOnline* Pro Monitoring Device (Qty # - 1→n)



12 simultaneous monitoring points + 2 tachs 30 sec trend / 10 min waveform data capture

Simultaneous Alarm Snapshot (1 per 30 sec)

BB: 2300 Monitoring Device (Qty # $-1 \rightarrow n$)



2 simultaneous monitoring points + 1 tach

1 sec trend / 10 min waveform data capture

CC: Ranger Pro Device ($Qty # - 1 \rightarrow n$)



Single axis: 1 accel point + 1 temperature

Triaxial: 3 accel points + 1 temperature point

10 min trend / 6 hour waveform data capture

Process Data

3071/14-AA Process Data Import

AA: OPC DA Server Import ($Qty # - 1 \rightarrow n$)



Includes up to 6000 tags for a S1 Server

1 sec trend data capture

3071/15-AA Process Data Export

AA: OPC DA Server Export ($Qty # - 1 \rightarrow n$)



Includes up to 10000 tags for a S1 Server

1 sec data export rate

Database Replication

3071/16-AA-BB-CC System 1 Replication

AA: Tx Server(s) (License Value of Tx Server, # - 1→n)

Conduit to move data to the business network

Contains config info and connection to devices

BB: Rx Server(s) (Qty # $-1 \rightarrow n$)

Database that mirrors the S1 server on the Plant Network

Supports 80-90% of daily condition monitoring tasks

CC: Physical Installation Media

01 - No (Default)

02 - **Yes**

Stay Current - Software Maintenance and Support

Maintenance and Support (M&S)

3071/20 System 1 Maintenance & Support 3071/20-AA-BB-CC-DD-EE-FF-GG-HH

AA: M&S Support Level

01 - Gold Support

02 - **Platinum** Support

BB: M&S Term

- Numeric Entry [1→20 years]

CC: System 1 Products Covered Under M&S Agreement

01 - **System 1 17.x** (3071 Family)

02 - **System 1 6.x** (3060 Family)

DD: Total System 1 Software License Price

- Numeric Entry [In Local Currency]

EE: Customer Activation Number (CAN)

- **Text Entry** [Ex: CAN1631]

FF: Software Contact Name

- Text Entry [Ex: Bently Nevada]

GG: Software Contact Email Address

- **Text Entry** [Ex: BentlyNevada@bhge.com]

II: M&S Order Type

01 - New Order

02 - Renewal Order

03 - Expansion Order

System 1 Maintenance and Support provides access to 24/7 technical support and several System 1 user and security focused releases annually.

System 1 software maintenance and support agreement provides access to the latest updates and platform upgrades through a simplified web portal interface.

Customers with System 1 version 6.x and Ascent qualify for a **FREE** upgrade to the latest platform (v17.2 release Nov 30. 2017). See 3071/65.

- 24/7 technical support (regional specialists)
- ✓ Access to the latest software releases
 - Operating system updates
 - Cyber security patches
 - User-driven feature additions

Free System 1 & Ascent Platform Upgrade

3071/65 System 1 Software Free Platform Upgrade 3071/65-AA-BB-CC-DD-EE-FF-GG-HH-II-JJ-KK-LL-MM

AA: Customer Activation Number (CAN)

- Text Entry [CAN######]

BB: Software Package Upgraded

01 - **System 1** v6.x

02 - **Ascent 2015**

CC: New Software Package

01 - **Premium+** Package

02 - Premium Package

03 - Advanced+ Package

04 - Advanced Package

05 - Fundamental Package

06 - Power Generation Package

DD: Quantity of Display Clients

01 - Single Client Package

05 - **Small** Package [6 Clients]

10 - **Medium** Package [11 Clients]

15 - Unlimited Clients

EE: Quantity of Server Licenses (DAQs)

- Numeric Entry [1 -> n]

FF: Historical Data Migration

01 - **Yes** [System 1 v6.81+ & Ascent v2015]

02 - **No**

GG: Qty of 3500 Devices - Turbomachinery

- Numeric Entry [1→n]

HH: Qty of 3500 Devices - General Machines

- Numeric Entry $[1 \rightarrow n]$

II: Qty of 3500 Devices - Recip Machines

- Numeric Entry $[1 \rightarrow n]$

JJ: Qty of TDI Secure Devices

- Numeric Entry $[1 \rightarrow n]$

KK: Qty of OPC DA Import Licenses (1 per server)

- Numeric Entry [1 -> n]

LL: Qty of OPC DA Export Licenses (1 per server)

- Numeric Entry [1 -> n]

MM: Plant Design Output (Power Generation Package Only)

- Numeric Entry [1→n]



System 1* Package Ordering (Subscription License)

We offer subscription licenses that include support for and updates to System 1. Software functionality is identical for perpetual and subscription licenses. Key structural differences exist between these license types

Subscription License

- Smaller upfront investment (flat year-over-year OPEX)
- Subscription license fee includes support and updates.
- Software stops working if subscription is cancelled.

Perpetual License

- ✓ Larger upfront investment (One-time CAPEX)
- ✓ Must purchase support and updates (M&S) separately (Lower OPEX than Subscription)
- ✓ Software license does not expire. Support and updates cease if M&S cancelled.

Premium [Highly Critical]

3072/10 System 1 Software Premium Package 3072/10-AA-BB-CC-DD-EE

AA: Purchase Type

01 - New (First Type Purchase)

02 - Renewal

BB: Term (Subscription Term in Years)

- Numeric Entry $[3 \rightarrow 5]$

CC: Software Package

01 - Premium Package

02 - Premium+ Package

DD: Quantity of Display Clients

01 - Single Client Package

05 - Small Package [6 Clients]

10 - Medium Package [11 Clients]

15 - Unlimited Clients

EE: Quantity of Server Licenses

- Numeric Entry [1→n]

Advanced [Critical]

3072/05 System 1 Software Advanced Package 3072/05-AA-BB-CC-DD-EE

AA: Purchase Type

01 - **New** (First Type Purchase)

02 - Renewal

BB: Term (Subscription Term in Years)

- Numeric Entry [3→5]

CC: Software Package

01 - Advanced Package

02 - **Advanced+** Package

DD: Quantity of Display Clients

01 - Single Client Package

05 - Small Package [6 Clients]

10 - **Medium** Package [11 Clients]

15 - Unlimited Clients

EE: Quantity of Server Licenses

- Numeric Entry [1→n]

Fundamental [Less Critical]

3072/01 System 1 Software Fundamental Package 3072/01-AA-BB-CC-DD

AA: Purchase Type

01 - New (First Type Purchase)

02 - Renewal

BB: Term (Subscription Term in Years)

- Numeric Entry $[3 \rightarrow 5]$

CC: Quantity of Display Clients

01 - Single Client Package

05 - Small Package [6 Clients]

10 - **Medium** Package [11 Clients]

15 - Unlimited Clients

DD: Quantity of Server Licenses

- Numeric Entry [1→n]

Language Packs

Same as for Perpetual (3071/91)



Set Connected - Device Ordering (Subscription License)

3500 Device Series

3072/11-AA-BB-CC-DD 3500 Series Device Import

AA: 3500 Devices - Turbomachinery (Qty #1→n)

BB: 3500 Devices - General Machines (Oty #1→n)

CC: 3500 Devices - Recip Machines (Qty #1→n)

DD: TDI Secure Devices (Qty # − 1→n)

Distributed Device Series

3072/12-AA Distributed Device Import

AA: ADAPT Monitoring Devices (Qty # $-1 \rightarrow n$)

System 1 Classic Connector

3072/60-AA System 1 Classic Connector

AA: System 1 Classic Connector (Qty # - 1→n)

Condition Monitoring & Basic Protection

3072/13-AA-BB-CC CM & Basic Protection Device

AA: vbOnline* Pro Devices (Qty # − 1→n)

BB: 2300 Monitoring Devices (Qty # − 1→n)

CC: Ranger Pro Devices (Qty # - 1→n)

Process Data

3072/14-AA Process Data Import

AA: OPC DA Server Import (Qty # − 1→n)

3072/15-AA Process Data Export

AA: OPC DA Server Export (Qty # − 1→n)

Database Replication

3072/16-AA-BB-CC System 1 Replication

AA: License Value of Tx Server(s) (# - 1→n)

BB: Quantity of Rx Server Licenses (# - 1→n)

CC: Physical Installation Media

01 - No (Default)

02 - **Yes**

General Capabilities

Distributed Client/Server Deployment

- ✓ TCP/IP Client to Server Communication (Ports 7550 and 7551)
- ✓ Clients can connect to **five** different condition monitoring databases simultaneously on a server.
 (One **Online** database per server + **Offline** Databases)
- ✓ System performance tested with 5 simultaneous client connections to one online database

Data Replication

- ✓ Access System 1 on the business network by replicating data across a data diode or firewall.
- ✓ Reduce Cyber Security risks to an acceptable level.

User Security Profiling

- ✓ Leverages Windows® Domain and local accounts
- Administrator Profile (Read, Write, Database Management)
- ✓ Advanced Profile (Read, Write)
- ✓ Basic Profile (Read Only)

Database & Server Capacity

- ✓ System 1 Server can run one Online (Premium or Advanced) condition monitoring database connected to supported online devices.
- ✓ The System 1 Server can contain multiple offline (Fundamental) databases in addition to the online database.
- ✓ Each condition monitoring database can contain a maximum of 2000 pieces of equipment. (Motor + Pump = 2)
- ✓ Embedded GE Historian for data storage and management
- ✓ Edit Trend, Alarm, and Transient Data Store sizes and monitor health over time to avoid losing data.

Display Unit Preferences

Effortlessly switch between **As Configured**, Imperial, and SI unit systems from Display.

System Specifications

Standard Server

Intel Xeon[®] 4110 8-Core[®] (2.1 GHz Processor) 64 GB RAM or above Operating System Hard Disk: RAID 1 & 300 GB – 10000 RPM Historian Hard Disk: RAID 5 (see Table 3) – 10,000 RPM DVD-RW

Light Server

Intel Xeon[®] 4110 8-Core[®] (2.1 GHz Processor)
16 GB RAM or above
Operating System Hard Disk: RAID 1 & 300 GB – 10,000 RPM
Historian Hard Disk: RAID 5 & 1.2 TB– 10,000 RPM
DVD-RW

Workstation

Intel Xeon® W-2123 (3.6 GHz Processor)
16 GB RAM or above
1 GB Graphics Card
1 TB Hard Drive – 7200 RPM
DVD-RW

Laptop

i7 – 7700HQ (2.8 GHz Processor) 16 GB RAM or above HD Graphics Card 1 TB Hard Drive – 7200 RPM DVD-RW

Virtualized Systems

Refer to technical white paper²

Supported Operating Systems

Microsoft Windows® 2016 Server Standard Edition 64 bit
Microsoft Windows® 2012 Server Standard Edition 64 bit
Microsoft Windows® 2012 Server R2 Standard Edition 64 bit
Microsoft Windows® 2008 Server R2 Standard Edition 64 bit
Microsoft Windows® 7 Professional 64 bit †
Microsoft Windows® 8.1 Professional 64 bit †
Microsoft Windows® 10 Professional 64 bit † (1803, 1709, 1703)
† Recommended for Client

Network specification

Minimum 100 Mbps recommended



Servers and Accessories

3071/30 - Servers and Accessories

AA: Computers

00 - **None**

- Refer to table below

BB: Keyboards for Rack Servers

00 - **None**

01 - Compact KB with touchpad

03- Integrated keyboard drawer

CC: Monitors

00 - **None**

03 - **22" Flat Panel**

04 - **24" Flat Panel**

05 - **27" Flat Panel**

DD: Printers

00 - **None**

01 - HP[®] Printer 110V B/W

02 - HP[®] Printer 110V Color

03 - HP® Printer 220V B/W

04 - HP[®] Printer 220v Color

EE: Time Synch (see footnote)

00 - **None**

01 - Client Software (one license)

10 - Client SW & NTP Time Server³

20 - IRIG-B Time Card³

FF: Uninterruptable Power Supply

00 - **None**

01 - **110V Rack Mount**

02 - **110V Tower**

03 - 220V Tower

GG: Backup Devices

00 - **None**

01 - HP[®] LTO Tape Drive

02 - **DELL**[®] **LTO Tape Drive**

HH: Remote Access

00 - **None**

02 - Parallels Remote App Server, 15 users + 5 years support

II: RDS 5 CAL Packs (needed with Parallels)

- Numeric Entry [1→n]

Туре	Catalog Number	OEM	Model	Processor	RAID 1 Disk Space [GB]	RAID 5 Disk Space [TB]	RAM [GB]	BN Part#
	3071/30-A-01	HP [®]	DL380 G10	4110 2.1 GHz	300	2.4	64	128M3395
	3071/30-A-02	Dell®	R540	4110 2.1 GHz	300	2.4	64	128M3396
Standard Server [Rack]	3071/30-A-03	HP [®]	DL380 G10	4110 2.1 GHz	300	3.6	64	110M2199
	3071/30-A-04	HP [®]	DL380 G10	4110 2.1 GHz	300	6.0	64	110M2200
	3071/30-A-05	HP [®]	DL380 G10	4110 2.1 GHz	300	10.8	64	110M2201
	3071/30-A-10	HP [®]	ML350 G10	4110 2.1 GHz	300	2.4	64	128M3394
Standard Server [Tower]	3071/30-A-11	HP [®]	ML350 G10	4110 2.1 GHz	300	3.6	64 110M2 64 110M2 64 110M2 64 128M3 64 110M2 64 110M2 64 110M2	110M2203
Standard Server [Tower]	3071/30-A-12	HP [®]	ML350 G10	4110 2.1 GHz	300	6.0	64	110M2206
	3071/30-A-13	HP [®]	ML350 G10	4110 2.1 GHz	300	10.8	64	110M2207
Light Server [Rack]	3071/30-A-20	HP [®]	DL380 G10	3106 1.7 GHz	300	1.2	16	110M2198
Light Server [Tower]	3071/30-A-21	HP [®]	ML110 G10	4110 2.1 GHz	300	1.2	16	110M2202
Workstation	3071/30-A-22	HP [®]	HP Z4G4	W-2123 3.6 GHz	1000	-	16	02200478
Laptop	3071/30-A-23	HP [®]	ZBOOK 15	i7-7700 2.8 GHz	1000	-	16	169849

Recommendations:

Standard Server

Medium, large, or x-Large Premium/Advanced databases

Light Server

Fundamental installation or small Premium/Advanced database Fundamental installation or Premium/Advanced Client machine

Workstation Laptop

Fundamental installation

Document: 108M5214 Rev M

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System 1* Software Capability Comparison

Comment Comment is it.	Charles	D	S	A di	A d	C down a sakal	0
General Connectivity	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Device Support	4.5						
3500	✓ Complete	✓	✓				√
3701	✓ Complete	✓	√				√
TDI Secure	✓ Complete	✓	√				✓
vbOnline* Pro	✓ Complete	✓	✓	√	✓		
2300	✓ Complete	✓	✓	√	✓		
OPC DA Import/Export	✓ Complete	✓	✓	✓	✓		
OPC UA Import/Export	■ 19.1						
SCOUT* 100 Series	✓ Complete	✓		✓		✓	
SCOUT* 200 Series	✓ Complete	✓		✓		✓	
Enterprise Impact	✓ Complete	✓	√	✓	✓	✓	
S1 6.x Connector P1	✓ P1 Complete	✓	√	√	√		
.csv Import	Future						
Modbus Import	Future						
Bently Machine Library							
Compressors (Axial, Centrifugal)	✓ Complete	✓	√	√	√	✓	
Compressors (Reciprocating)	✓ Complete	✓	√	√	√	✓	
Fans	✓ Complete	✓	√	√	√	✓	
Gas Turbines (Aero, Industrial)	✓ Complete	√	√	√	√	✓	
Gearbox (Wind Turbine, Configurable)	✓ Complete	√	√	√	√	✓	
Generators	✓ Complete	√	√	√	√	✓	
Generic Machine	✓ Complete	√	√	√	√	✓	
Motors	✓ Complete	✓	√	√	√	✓	
Pumps (Between Bearings, Overhung)	✓ Complete	√	√	√	√	✓	
Steam Turbines	✓ Complete	✓	√	√	√	✓	
User Machine Templates							
Machine Templates	✓ Complete	✓	✓	√	√	✓	
Machine + Device Templates	■ 18.2						
Template Import/Export	■ 18.2						
General Configuration							
Device Point to Equipment Mapping	✓ Complete	√	√	✓	√	√	
Copy/Cut/Paste	✓ Complete	√	√	√	√	√	
Config Import/Export	✓ Complete	√	✓	✓	√	✓	
Display Based Configuration	■ 19.1						
Linear Speed Support	■ 18.2						
User Defined (Bearings, Sensors, FF)	Future						
Undo/Redo In Configuration	Future						
File Based Configuration	Future						
The Basea cornigaration	= ratare						

Detection	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Machine State Configuration							
Machine States	✓ Complete	√	✓	√	✓		
Turbo Quick Configuration	✓ Complete	√	✓	✓	✓		
Machine States for Offline (Portables)	Future						
Measurement Configurations							
TA Proven Method 4th Edition	✓ Complete	✓		✓		✓	
Measurement Quick Configuration	✓ Complete	✓		✓		✓	
Data Extractions							
Spectral Bands	✓ Complete	✓	✓	✓	✓		
Waveform pk-pk	✓ Complete	✓	✓	✓	✓	✓	
Sideband Energy Ratio	✓ Complete	✓	✓	✓	√	✓	
Fault Specific Bands	✓ P1 Complete	✓	✓	✓	✓	✓	
Dynamic Energy Index	Future						
Software Generated Speed	Future						
Simple Math (+,-,/,*) P1	Future						
Complex Transformation	■ Future						
Alarm Generation							
State-Based Alarming	✓ Complete	✓	✓	✓	✓		
Alarm Quick Configuration from Statistics	✓ Complete	✓	✓	✓	√	✓	
Designed Suppression	✓ Complete	✓	✓	√	✓		
Time Delay	■ 18.2						
Alarm Latching	■ 18.2						
Change Detection Alarming	Future						
Spectral Envelope Alarming	Future						
SUSD Anomaly Alarm	Future						

Notification	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
External Notification							
Email Notification	✓ Complete						
S1 Mobile	Future						
Status							
List View	✓ Complete	✓	√	✓	✓	✓	√
Bar Graphs	✓ Complete	✓	✓	✓	✓	✓	√
Configurable Machine Diagrams	✓ Complete	✓	√	✓	✓	✓	
Events							
Alarm List	✓ Complete	✓	√	✓	✓	✓	√
System Health List	✓ Complete	✓	✓	✓	✓	✓	√
Alarm Acknowledgment	✓ Complete	✓	✓	✓	✓	✓	√
Event Count	■ 18.2						
User Enabled Shelving	■ 18.2						
State Event List	Future						
Export to .csv	Future						

Machinery Diagnostics	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Turbomachinery							
Bode Plot	✓ Complete	✓	✓	✓	✓		
Polar Plot	✓ Complete	/	√	√	✓		
Shaft Centerline Plot	✓ Complete	✓	✓	√	✓		
Cascade Plot (3D)	✓ Complete	✓	√	√	√		
Full Cascade	✓ Complete	✓	√	√	√		
Full Waterfall	✓ Complete	✓	√	√	√		
Startup/Shutdown Navigation	✓ Complete	✓	√	√	√		
Compensation	✓ Complete	√	√	√	√		
Acceptance Region Visualization	■ Future						
Performance Maps	■ Future						
Recip Compressors							
Reciprocating (Crank Angle) Plot	✓ Complete	✓	√				
Adiabatic Curve Overlay	✓ Complete	✓	√				
Recip Waterfall Plot	✓ Complete	✓	√				
Rod Drop Plot	■ 19.1						
Less Critical (Fans, pumps)							
Delete Data	✓ Complete	✓		✓		✓	
Move Data	✓ Complete	✓		√		✓	
Circular Plot	Future						
General Diagnostics							
Multi-Variable Trend	✓ Complete	✓	√	√	√	✓	√
Waveform Plot	✓ Complete	✓	√	√	√	✓	√
Orbit Plot	✓ Complete	✓	√	√	√	✓	
Waterfall Plot (3D)	✓ Complete	✓	✓	√	√	√	
State Setpoint Visualization	✓ Complete	✓	✓	√	√		
Bently Machine Plot Sets	✓ Complete	✓	√	√	√	✓	
Plot Invalid Data Filter	✓ Complete	✓	√	√	√		
Multi-Window Plotting	■ 19.1						
Colour Plot Data by State	■ 19.1						
Filtering Plot Data by State	Future						
Plot Tools							
Synchronized Cursors/Scales	✓ Complete	✓	✓	✓	✓	✓	
Link Cursors to Samples	✓ Complete	✓	√	✓	✓	✓	
Cursors (Harmonics, Sidebands, Micro)	✓ Complete	✓	✓	√	✓	✓	
Spectral Band Bar Graphs	✓ Complete	✓	√	√	√	√	
Fault Frequency Overlays	✓ Complete	✓	√	√	√	√	
Time Range Control	✓ Complete	✓	✓	√	✓	√	
Plot Play	Future						
Plot Annotation	■ Future						
Plot Scaling (Manual, Integration)	■ 19.1						
Data Export	Future						

Case History and Reporting	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Machine Health Reviews	✓ Complete	✓	✓	✓	✓	✓	
Condition Monitoring Notes	√ Complete	✓	✓	✓	✓	✓	
Plot Records	√ Complete	✓	✓	√	✓	✓	
Comparison (Reference) Data	√ Complete	✓	✓	√	✓	✓	
Multi-Media Notes	■ 18.2						
Diagnostic Report Customization	Future						

Database Management	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Data Collection & Storage							
Trend Data	✓ Complete	✓	✓	√	✓	✓	
Alarm Data	✓ Complete	✓	✓	✓	✓		
Transient Data	✓ Complete	✓	✓	✓	✓		
Online & Offline Database Support	✓ Complete	✓	✓	√	✓		
Enhanced Data Store	■ Future						
Database Manager							
Basic Management (Rename, Delete)	✓ Complete	✓	✓	√	✓	✓	
Backup/Restore	✓ Complete	✓	✓	√	✓	✓	
Data Store Configurability	✓ Complete	✓	✓	√	✓		
Machine Audit File	✓ Complete	✓	✓	√	✓	✓	
Complete Database Archive	■ 18.2	√	✓	√	✓	√	
Data Migration							
S1 6.81+ DB Migration	✓ Complete	✓	✓				
Ascent* 2015 DB Migration	✓ Complete	√		✓		✓	
ADAPT.wind DB Migration	Future						
Database Access							
Client/Server Deployment	✓ Complete	✓	✓	✓	✓	√	
Simultaneous Database Access	✓ Complete	✓	✓	√	✓	√	
Open Multiple DBs in Single Client	Future						

General Application	Status	Premium +	Premium	Advanced +	Advanced	Fundamental	Basic
Preferences							
Display Units	✓ Complete	✓	✓	√	✓	✓	√
Cursors (# of Harmonics, Sidebands)	✓ Complete	✓	√	√	✓	✓	✓
Waveform (Filter, # Revs)	✓ Complete	✓	✓	√	✓	✓	√
Machine Criticality Naming	Future						
Alarm Levels (Colours, Numbering)	■ Future						
Plot Curve Colors	Future						
Adaptive Profiles	■ 19.1						
Cyber Security							
User Security	✓ Complete	✓	✓	√	√	✓	
Code Obfuscation	✓ Complete	✓	✓	√	✓	✓	√
Licensing	✓ Complete	√	√	✓	√	√	√

Footnotes

- 1. We release language packs approximately one to two months following the release of System 1* application.
- 2. Virtualized Systems technical white paper will be published.
- Synch options sometimes have different export control than the servers. Hence, they must be ordered separately.
 For option 10, order 3071/30-EE-01 (Client SW) and parts 165764, 123M6504 and 123M6505 which are components of the GPS Network Time Server.
 For option 20, order part 167114 PCI IRIG Time Receiver separately.

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