

Welcome to System 1 and Decision Support



Version 25.1 [May 2025]

Welcome

Bently Nevada is pleased to present System 1 and System 1 Decision Support (Figure 1) version 25.1, with new capabilities.

Users upgrading to version 25.1 will benefit from the many capability enhancements to effective outcomes, which are summarized below.

Bently Nevada remains focused on delivering the world's premier plant-wide machinery management software through bi-annual product releases.

For a detailed overview of System 1, please visit the [website](#).

S1 System 1 and Decision Support v25.1 

Key Features

Licensing Enhancements	Data collection stopped when subscription license grace period ends
	Perpetual and Subscription licensing on Rx
	License health status and notification
	Server Admin rights to assign and return license in System 1
Plot Enhancements	Fault Frequency Overlay on Waterfall Plot
	Support Harmonics and Sidebands on Waterfall Plot
	Select Recent Samples in Plot Preference to show in Stacked Spectrum and Waterfall Plot
Route, Database Access, Email Notification, and PostgreSQL Enhancements	Allow Route Points Re-ordering across Machines
	Database visibility based on user rights
	Support Modern Authentication SMTP in System 1
	Upgrade PostgreSQL 14 to PostgreSQL 17
Edge Devices - Orbit 60	Recip Compressor Asset Property Update
	Cylinder Pressure Channel support
	Multi Event Wheel (MEW) Support
	Backup Speed Channel Support
	Installs Base Tool for Orbit 60
	Recommended Bently Practices for Orbit 60
Edge Devices - Orbit DCM	Recommended Bently Practices for Orbit DCM
	Device Backward Compatibility
	Delay in State Based Data Collection
	Machine Stopped Detection
Decision Support	Template Server Support

Figure 1 System 1 and Decision Support v25.1 Features

Thank you,



Jeff Sipek, Product Manager

On behalf of your System 1 Leadership and Development Teams

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Before you Begin

! Postgres version upgrade !

System 1 25.1 and later will support PostgreSQL 17 as the historian. Databases on PostgreSQL 14 needs to be upgraded to PostgreSQL 17.

Users are recommended to create backup before installing System 1 25.1.

After upgrade to PostgreSQL17 on System 1 25.1, rollback installation to previous System 1 versions is not allowed. Rollback is only possible by restoring VSS/Acronis backup.

Users with Postgres 14 database as historian can upgrade to Postgres 17 by launching Database Manager tool and clicking "Upgrade PostgreSQL Database".

! License Enhancements !

Before upgrading Replication (Rx) server to version 25.1 or later:

1. If you have not applied license on Replication (Rx) server, then you must license it with latest version of System 1 Database Replication license
2. If you have applied license on Replication (Rx) server in System 1 v24.2 or earlier and your database has Portable (PDC) Configuration, then you must return the System 1 Database Replication license assigned to your device in the licensing portal. Assign the latest System 1 Database Replication license (version 25.1 or later) and then upgrade System 1 software to version 25.1 or later. Failure to do this might prevent System 1 Server from working. For detailed instructions, see "Manage System 1 Database Replication License on Replication (Rx) Server" in System 1 install folder.

Users need to be Server Administrator to assign or return System 1 License.

After the grace period of a subscription license is over, data and alarm event collection are stopped until the license is renewed.

1. SYSTEM 1 V25.1 FEATURE OVERVIEW

Table -1 : System 1 v25.1 – Improved Productivity

Core Features		
Licensing Enhancements		
Data Collection stops after Subscription License Grace Period Expiry	After the grace period of a subscription license is over, data and alarm event collection are stopped for the corresponding license type until the license is renewed.	4.1.1
Perpetual and Subscription Licensing on Rx	Licensing is now applicable on the Rx server in addition to the Tx. It applies to all the databases available on the Rx server.	4.1.2
License Health Status and Notification	System 1 notifies users about the health of subscription licenses applied to a server through pop-up messages, email notifications, and System 1 health events.	4.1.3
Server Admin rights to assign and return System 1 License	Users need to Server Administrator on System 1 Server to assign or return System 1 license with System 1 v25.1 and above.	4.1.4
Plot Enhancement		
Fault Frequency Overlay support on Waterfall Plot	Users can now overlay fault frequency on the Waterfall plot.	4.2.1
Harmonics And Sidebands support on Waterfall Plot	System 1 now supports Harmonics and Sidebands cursors on the Waterfall Plot.	4.2.2
Select no. of Samples in Stacked Spectrum and Waterfall Plots	Set the default number of latest samples to be displayed in the Stacked Spectrum and Waterfall plots. This setting can be configured from the Plot Preferences dialog.	4.2.3
Route, Database Access, Email Notification, And PostgreSQL Enhancements		
Route Points Reordering across Machines	Users can reorder Route points across different machine trains within a route from Points tab. Reordered route is sent to the portable device and data is collected in that order in the field.	4.3.1
Database Visibility based on User Rights	Users can view only those databases on which they have rights.	4.3.2
Modern Authentication SMTP Support	Users can choose between authentication types: OAuth and existing Basic authentication for SMTP configuration when creating Notification Plans.	4.3.3
Upgrade PostgreSQL version from 14 to 17	System 1 now only supports PostgreSQL 17 databases. Upgrade from PostgreSQL 14 to 17 using the Database Manager.	4.3.4

Edge Devices Monitoring		
Orbit 60		
Recip Compressor Asset Property update	Reciprocating compressor asset properties in System 1 now aligns with Reciprocating compressor machinery model configuration in Orbit 60.	5.1.1
Cylinder Pressure Channel support	Cylinder pressure channel configured under the PVT input module is now available in System 1 and it supports all System 1 configuration and plotting capabilities.	5.1.2
Multi Event Wheel (MEW) support	Recip Multi Event wheel configuration for Orbit 60 Recip channels is now supported in System 1.	5.1.3
Backup Speed Channel support	In the event of primary Speed channel failure, Orbit 60 device provides transient data and data for Sync measurements to System 1 by referring to the backup speed source if configured.	5.1.4
Install Base Tool support for Orbit 60 Device	The Install Base tool now generates the install base summary output file for Orbit 60 system.	5.1.5
Recommended Bently Practices for Orbit 60	Bently Best Practices methodology now available to apply for Orbit 60 devices.	5.1.6
Orbit DCM		
Recommended Bently Practices for Orbit DCM	Bently Best Practices methodology is now available to apply for Orbit DCM devices.	5.2.1
Device Backward Compatibility	System 1 now supports older Orbit DCM firmware.	5.2.2
Support Delay in State Based Data Collection	System 1 now allows users to collect data after a configurable time delay when a state change occurs.	5.2.3
Machine Stopped Detection	This option allows device to identify speed signals as Valid when machine stops. However, the device can still detect open loop, cable break, or sudden signal loss.	5.2.4

2. DECISION SUPPORT V25.1 FEATURE OVERVIEW

Table 2.1 Decision Support v25.1 Features

Decision Support		
Features		
Template Server Support	Added a non-processing service to serve as a template DSS to enable "packaging" deployments for more efficient deployments of rules by utilizing the Smart Copy/Paste capability.	6.1

2.1 Decision support is now available to download

[Valid M&S Agreement Required](#)

Starting with System 1 version 23.2, Decision Support Developer will be included with all new orders of System 1. Decision Support and System 1 both remain as separate products. However, they will be delivered through the same download folder in Flexera. Decision Support is now part of the System 1 package, and therefore does not require a separate license for installation. This excludes the Decision Support Analytics (formerly known as InsightPaks) and the DS Analytics library, which also remains as a separate commercial product. For more information on this change, contact your sales manager.

2.2 Decision Support Analytics Support

Existing installations of Decision Support Analytics are supported with Decision Support v23.2. However, if installing Decision Support Analytics for the first time after installing Decision Support v23.2, the latest version of Decision Support Analytics is required.

3. VERSION SUPPORT & OPERATING SYSTEM COMPATIBILITY

3.1 System 1

System 1 follows a semi-annual release cadence with targeted releases in May and November of each year. Versions are fully supported for a minimum of two years from the published date of availability (Refer System 1 Datasheet).

New Versions of System 1 benefit from:

- Compatibility with the latest Microsoft Client & Server Operating Systems
- Client backwards compatibility to previous versions under support (25.1 Client to 23.2 Server DB)
- Database upgrade from previous versions released within last 3 years (22.2→25.1)
- For Replicated setups, database upgrade of Tx and Rx databases from previous versions released within last 2 years (23.2→25.1)
- Security patch and update testing for the latest available version
- Bug fixes included in the latest available version.
- Standard technical support with escalation to engineering as required.

Versions no longer supported:

- Standard support is provided for common FAQ type questions, however, escalation to engineering is not available. Users are encouraged to update software to the latest version to benefit from new features, OS (Operating System) compatibility, and bug fixes.

Table 3.1 : System 1 Version Support & OS Compatibility Matrix

System 1 Versions & Support			Windows Server OS (64bit)				Windows Client OS (64bit)	
Version	Available	End of Support	2025	2022	2019	2016	11*	10**
25.1	May-25	May-27	✓	✓	✓	✓	✓	✓
25.0	Feb-25	May-25		✓	✓	✓	✓	✓
24.2	Nov-24	Nov-26		✓	✓	✓	✓	✓
24.1	May-24	May-26		✓	✓	✓	✓	✓
23.2	Nov-23	Nov-25		✓	✓	✓	✓	✓
23.1	May-23	May-25		✓	✓	✓	✓	✓

*Windows 11 version compatibility will track Microsoft's published release and support model. The latest version of System 1 will be tested and supported on all versions of Windows 11 under support as published on their website based on the System 1 version's published date of availability.

System 1 v25.1 (Windows 11 Pro 24H2, 23H2)

System 1 v25.0 (Windows 11 Pro 23H2, 22H2)

System 1 v24.2 (Windows 11 Pro 23H2, 22H2)

System 1 v24.1 (Windows 11 Pro 23H2, 22H2)

System 1 v23.2 (Windows 11 Pro 22H2, 21H2)

System 1 v23.1 (Windows 11 Pro 22H2, 21H2)

System 1 v22.2 (Windows 11 Pro 21H2)

Support for Windows Enterprise versions have the same System 1 support lifecycle as Windows Pro.

**Windows 10 version compatibility will track Microsoft's published release and support model. The latest version of System 1 will be tested and supported on all versions of Windows 10 under support as published on their website based on the System 1 version's published date of availability.

System 1 v25.1 (Windows 10 Pro 22H2)

System 1 v25.0 (Windows 10 Pro 22H2)

System 1 v24.2 (Windows 10 Pro 22H2)

System 1 v24.1 (Windows 10 Pro 22H2)

System 1 v23.2 (Windows 10 Pro 22H2, 21H2)

System 1 v23.1 (Windows 10 Pro 22H2, 21H2)

System 1 v22.2 (Windows 10 Pro 22H2, 21H2, 21H1)

Support for Windows Enterprise versions have the same System 1 support lifecycle as Windows Pro.

3.2 Decision Support

System 1 Decision Support follows a semi-annual release cadence. Versions are fully supported for a minimum of two years from the published date of availability (see below).

System 1 Compatibility

- Decision Support is designed to work with System 1 version 20.1 and newer, utilizing PostgreSQL for Historical Database (Proficy not supported)
- Decision Support is compatible with the same Operating Systems supported by System 1 (see previous section).

New Versions of System 1 Decision Support Benefit from:

- Compatibility with the latest Microsoft Client & Server Operating Systems
- Client backwards compatibility to previous versions under support (25.1 Client to 23.2 Server DB)
- Security patch & update testing for the latest available version
- Bug fixes included in the latest available version.
- Standard technical support with escalation to engineering as required.

Versions no longer supported:

- Standard support is provided for common FAQ type questions, but users are encouraged to update software to latest version to benefit from new features, OS compatibility, and bug fixes.

4. CORE FEATURES

4.1 Licensing Enhancements

4.1.1 Data Collection stops after License Grace Period Expiry

When grace period for the subscription license ends, System 1 stops collecting or receiving data.

After subscription license is renewed, System 1 resumes data collection.



Level	Path	Point	Measurement	Value	Date	Data Status	Device Type	Device Status	Machine Alarms	Device Alarms	Unacknow Alarms
●	Recovery Compressor_RK 18 > Centrf C...	Speed5	Speed	356 rpm	3/4/2025 12:00:00 AM	Transient Capture	3500 Full Rack	Data collection stopped as license is expired	0	0	0
●	Recovery Compressor_RK 18 > AC Mtr (...)	Accel1	Direct	9.739 g pk	3/4/2025 12:00:00 AM	OK	3500 Full Rack	Data collection stopped as license is expired	1	0	90
●	Recovery Compressor_RK 18 > AC Mtr (...)	Accel2	Direct	0.745 g pk	3/4/2025 12:00:00 AM	OK	3500 Full Rack	Data collection stopped as license is expired	0	0	0

Figure 4.1.1 Data Collection Stopped for devices

4.1.2 Perpetual and Subscription Licensing on Rx

From System 1 version 25.1, Perpetual or Subscription license is applicable to all the databases available on the Rx server. This includes databases created on Rx server as well as replicated databases.

Before upgrading Replication (Rx) server to version 25.1 or later, you must return the System 1 Database Replication license assigned to your device in the licensing portal. After System 1 version upgrade to 25.1 or later, immediately assign the corresponding System 1 Database Replication license (version 25.1 or later). Failure to do this might prevent System 1 Server from working. For detail, see Licensing User Guide.

When Subscription license expires on the Rx Server:

- Data and alarm event collection from Rx devices stops
- Replicated data and event file ingestion* on Rx server stops.
- Data Retransmit works on Rx only for data collected before the license expiry date.
- Config and Display changes replication in Bi-directional setup works.
- Route data can be sent to SCOUT instrument but cannot be received, if the Fundamental license expires

*Replication files continue to accumulate on the Rx

4.1.3 License Health Status and Notification

System 1 version 25.1 displays subscription License health status icon and the days remaining for expiry in the System 1 title bar.

In addition, System 1 displays a daily reminder message about subscription license status when less than 90 days are left for license expiry, until the license is renewed.

System 1 also generates events and sends email notification if configured to notify the user.

Status		Events		Plots		Case History	
Alarms		States		System Health		Suppressed	
Description	Entered	Exited	Activity	Location	Source	Source	Computer Name
Premium+ license and grace period expired - Data collection stopped for Premium+ devices.	31-08-2025 14:32:40		Active	Madaral	System		MTC-G11-19-VH1
Premium+ license expired	01-08-2025 14:21:14	31-08-2025 14:32:40	Cleared	Madaral	System		MTC-G11-19-VH1
Premium+ license is expiring in 30 days	12-07-2025 13:53:44	01-08-2025 14:21:14	Cleared	Madaral	System		MTC-G11-19-VH1
Premium+ license is expiring in 90 days	03-05-2025 13:26:42	12-07-2025 13:53:44	Cleared	Madaral	System		MTC-G11-19-VH1

Figure 4.1.3 License Health Status in System 1 Title bar

4.1.4 Server Admin rights to assign and return System 1 License

System 1 version 25.1 only allows user to assign or return System 1 License when they are Server Administrator on System 1 Server.

If user is Windows Admin, then it will be added as Server Administrator automatically and will get access to assign or return licenses. If any user other than windows admin, that user needs to be added as server administrator in Database Manager then only he will get access.

Refer Manage Server Security in System 1 Help for further details.

4.2 Plot Enhancements

4.2.1 Fault Frequency Overlay on Waterfall Plot

Users can now overlay related fault frequencies associated with the active curve on the Waterfall plot. This is an addition to the list of plots i.e. Spectrum, Stacked Spectrum, Timebase and Stacked Timebase plot that already support Fault Frequency overlay.

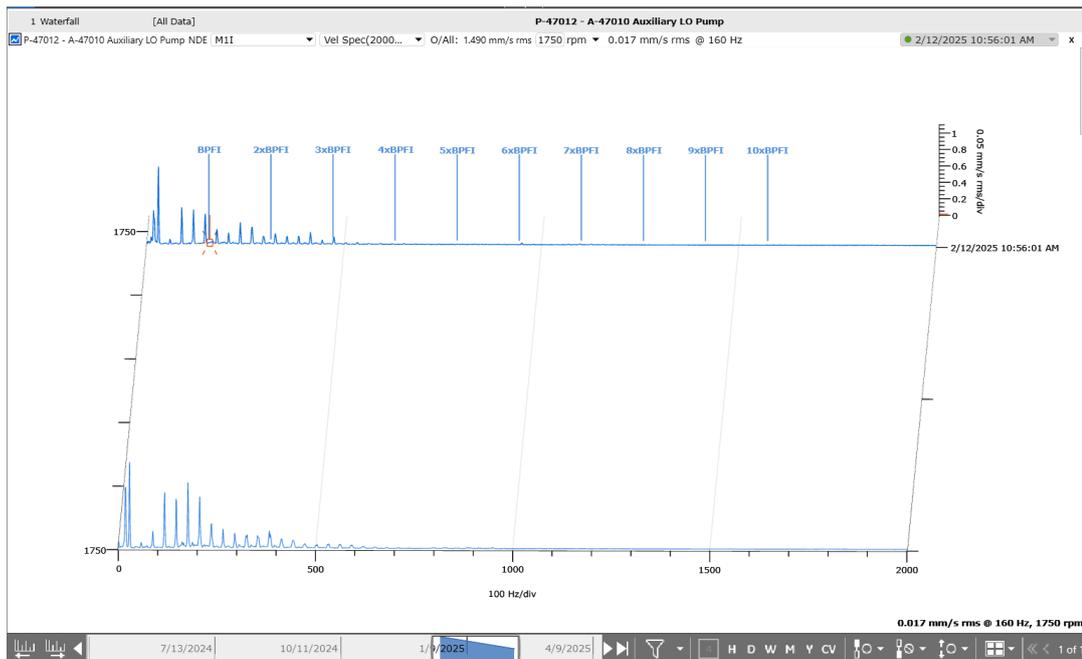


Figure 4.2.1 Fault Frequency Overlay on Waterfall Plot

4.2.2 Harmonics and Sidebands Support on Waterfall Plot

From System 1 v25.1, users can enable Harmonic and Sidebands cursors on the Waterfall plot.

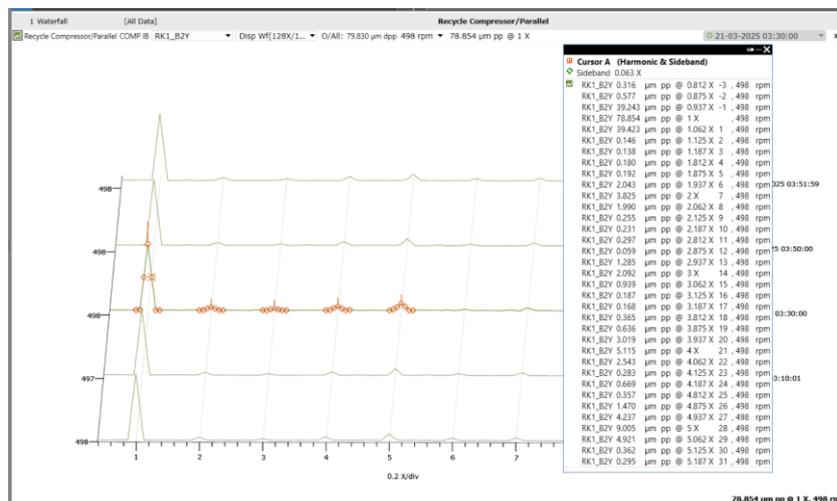


Figure 4.2.2 Harmonic and Sideband cursors

4.2.3 Set the number of Recent Samples in Stacked Spectrum and Waterfall Plots

Users can now set the number of latest samples to be shown in the Stacked Spectrum and Waterfall plots. Users can configure the setting from Spectrum Plots Preferences.

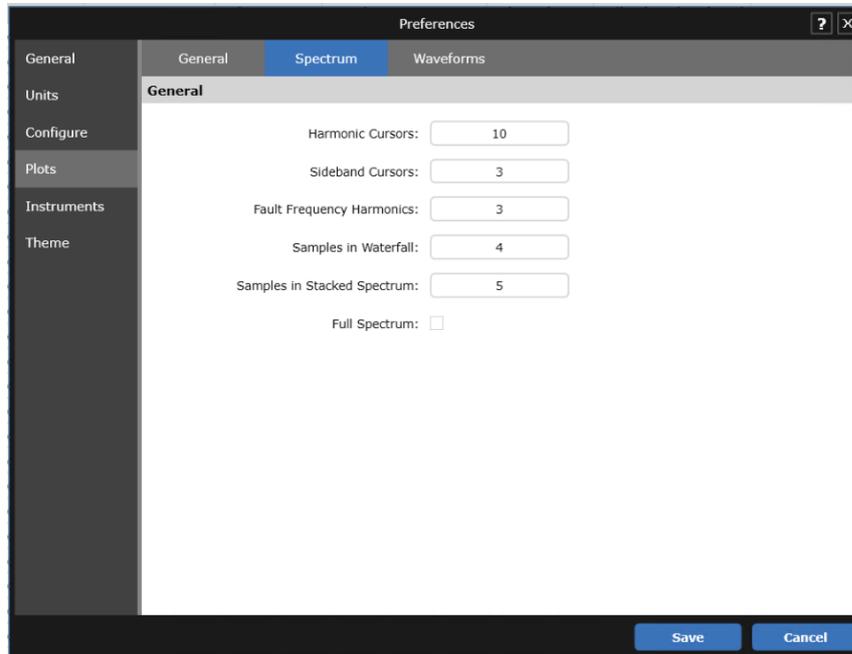


Figure 4.2.3 No. of Samples in Stacked Spectrum and Waterfall

4.3 Route, Database Access, Email Notification and PostgreSQL Enhancements

4.3.1 Allow Route Points Re-ordering Across Machines

System 1 v25.1 enables users to reorder points across different machine and machine trains under a route. Reordered route is sent to the portable device and data is collected in that order in the field. Portable devices such as SCOUT100 and SCOUT200 display the reordered route.

To reorder points in a route, select the Points tab for the selected route in Route mode and click on Reorder Route Points and the edit mode is enabled. Reorder the points. To save the changes, click on Reorder Route Points and then click on Save to save the changes to the database.

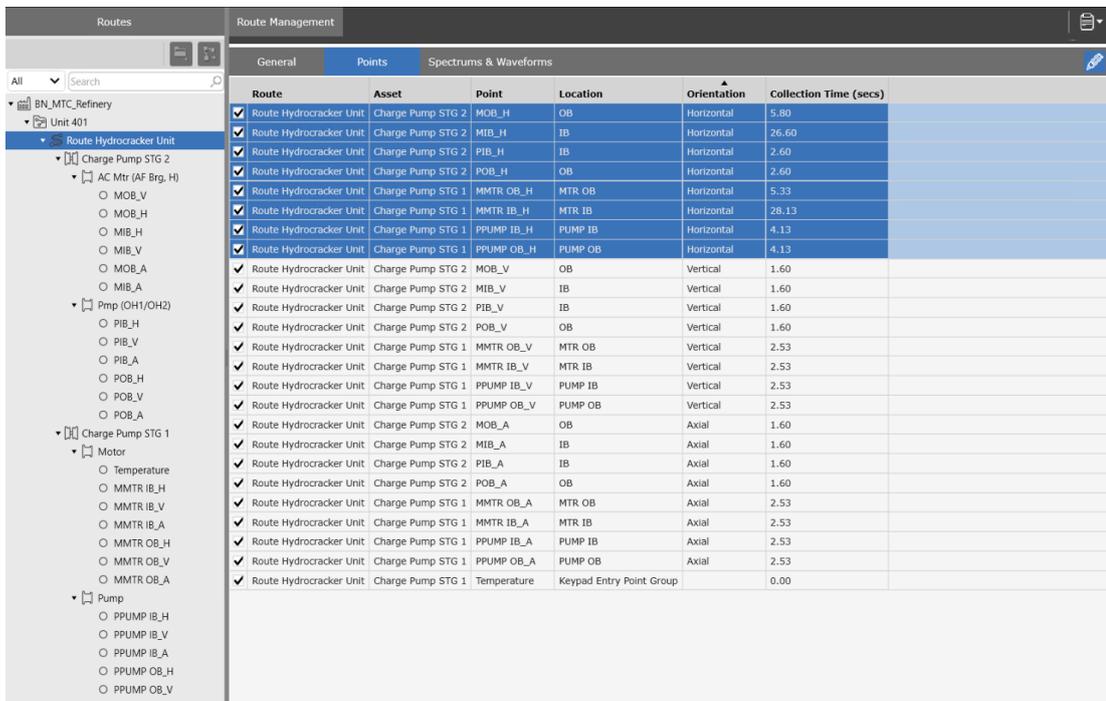


Figure 4.3.1 Route Points tab is in Edit mode to reorder points

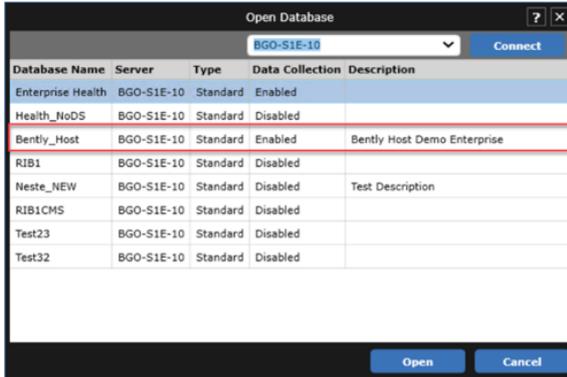
4.3.2 Database Visibility Based on User Rights

System 1 now lists only those databases to which users have access rights.

Users are displayed the database list based on their rights on the databases.

If a user is assigned a role under the User Management dialog, then that user can only view databases with permissions granted to that role in the Browse Database dialog.

User 1



User 2

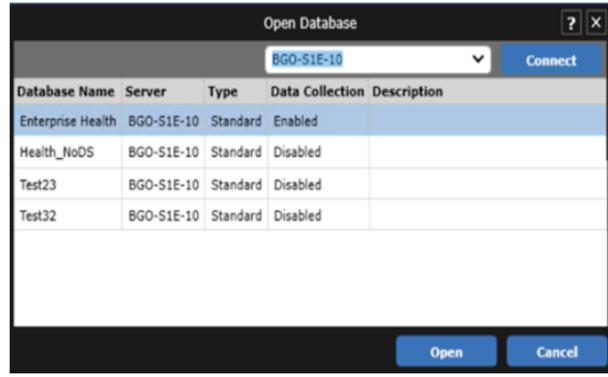


Figure 4.3.2 User 1 and User 2 see different list of databases based on their rights

4.3.3 Modern Authentication SMTP Support in System 1

System 1 v25.1 allows users to choose Authentication type i.e. OAuth or existing Basic authentication for SMTP configuration during Notification Plan creation.

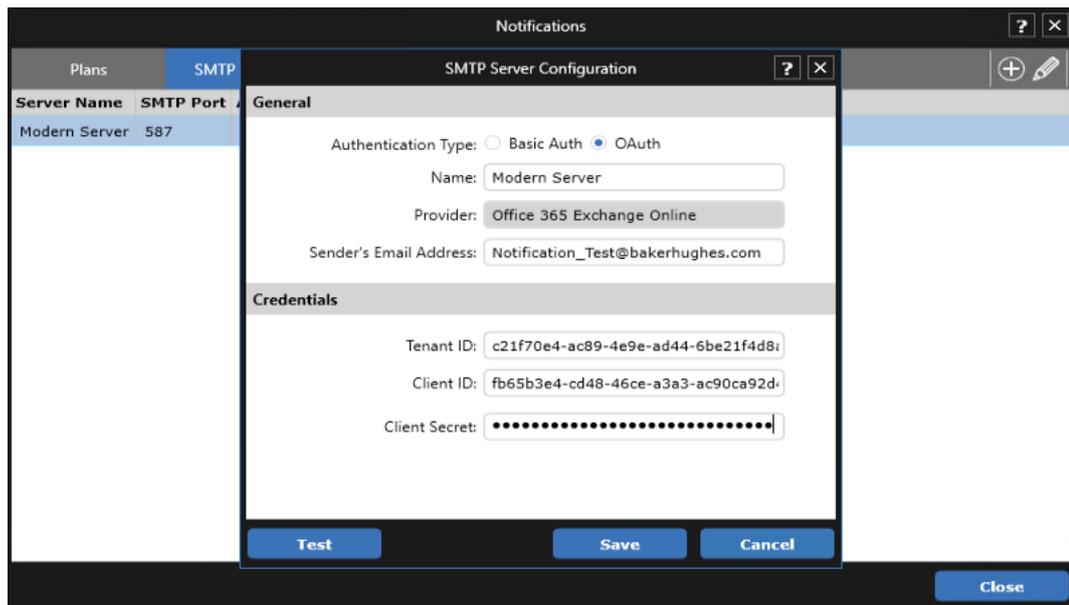


Figure 4.3.3 Modern Authentication for SMTP

4.3.4 PostgreSQL 17 Support

PostgreSQL 14 is approaching its end of life and will be no longer supported. Bently Nevada recommends customers to upgrade PostgreSQL 14 databases to PostgreSQL 17 before its planned end-of-life.

When customers install System 1 v25.1, PostgreSQL 17 is automatically installed.

Users are recommended to create a backup when upgrading to System 1 v25.1.

Users with older System 1 versions using PostgreSQL 14 as historian must manually upgrade to PostgreSQL 17 using System 1 Database Manager after they upgrade to System 1 v25.1.

To upgrade PostgreSQL 14 to 17, launch Database Manager tool and click "Upgrade PostgreSQL Database". (Figure 3.3).

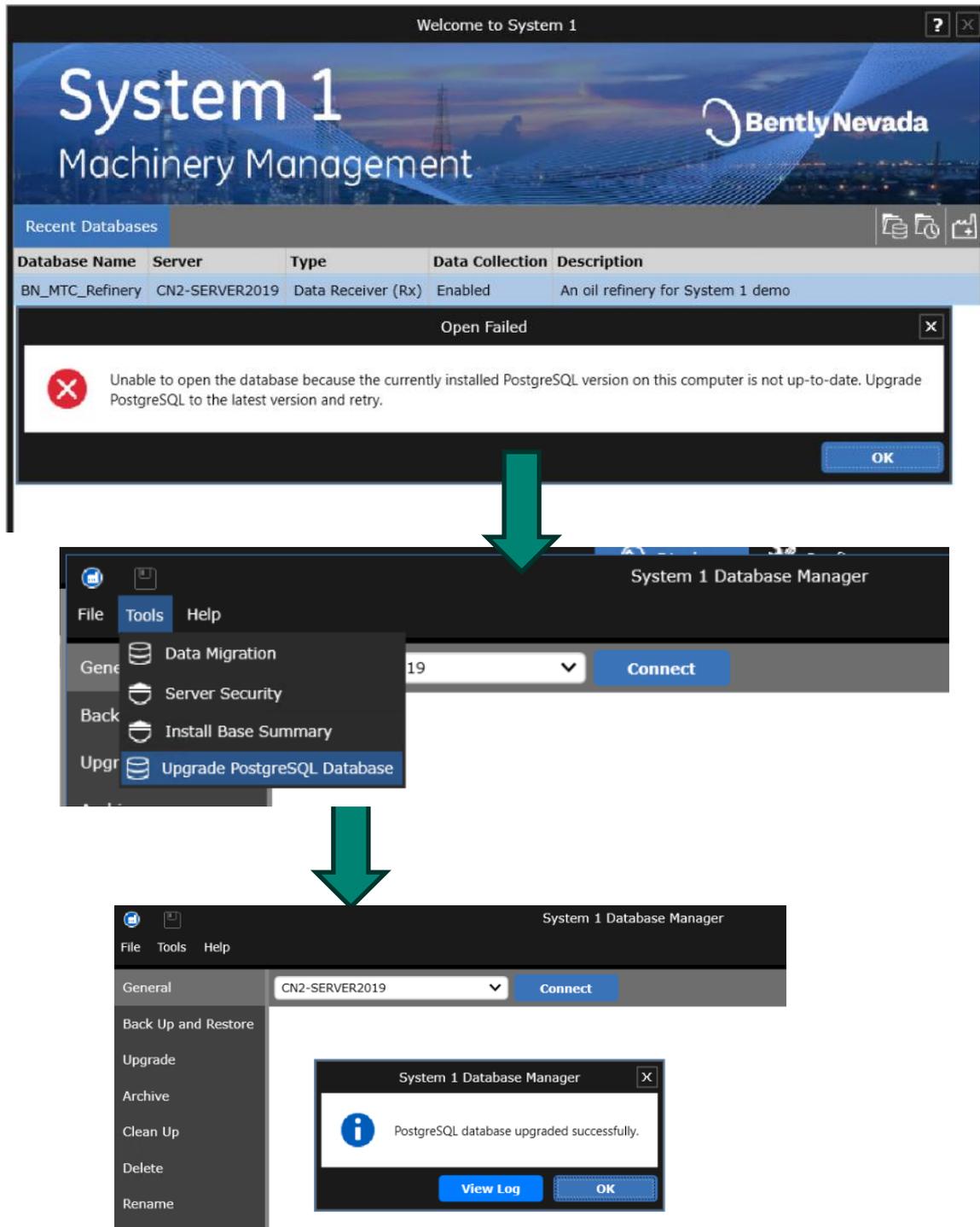


Figure 4.3.4 Steps to upgrade PostgreSQL 14 to PostgreSQL 17

5. EDGE DEVICES MONITORING

5.1 Orbit 60

5.1.1 Reciprocating Compressor Asset Properties Update

Reciprocating compressor asset properties in System 1 are now updated to match the machinery model configuration in Orbit Studio v25.1. The asset properties on both System 1 and Orbit 60 applications are now aligned with each other. On upgrading to System version 25.1, the updated properties are displayed under asset properties. After mapping reciprocating compressor channel from Orbit 60 device to the Reciprocating compressor asset in System 1, the property values automatically match with the machinery model.

5.1.2 Orbit 60 Recip Cylinder Pressure Channel Support

System 1 v25.1 now supports Orbit 60 Recip cylinder Pressure channel. Users can now view channel and measurement configuration in System 1 in read-only mode. Data for all the enabled hardware trended variables is available in System 1 for trending. Users can now add, edit, and delete Async, Sync, and Filtered Sync waveforms under Cylinder Pressure channel in system 1 and send the configuration to CMM. Users can also add additional software trended variables including performance measurements and software waveforms. Users can view data in Recip plots. All plot features are supported for Orbit 60 Cylinder Pressure channel.

5.1.3 Recip MEW Support

System 1 v25.1 now supports Recip Multi Event Wheel (MEW) (EPR=13) configuration for Reciprocating compressor in Orbit 60 system. The MEW provides valid phase reference to synchronous measurements and waveform. Users can enable MEW for primary or secondary speed channels in protection configuration.

5.1.4 Backup Speed Source

In the event of a primary speed channel failure, transient data and data for sync measurements are now captured in CMM seamlessly, provided that the speed channel has a backup speed source configured in the device. In System 1, under Data capture, the backup speed channel property now

shows the backup speed source of the associated speed channel. Transient data capture enabler settings are now applicable to the backup speed channel as well.

5.1.5 Install Base Tool for Orbit 60

From System 1 v25.1, the Install Base Tool includes Orbit 60 system information in the output CSV file. All Orbit 60 Systems in the System 1 configuration are included in the output file, specifically displaying the module type, serial numbers, and firmware versions of modules, where applicable.

5.1.6 Recommended Bently Practices for Orbit 60

From System 1 v25.1, Recommend Best Practices has been updated to support the Orbit 60 device. By mapping the Orbit 60 Device channels to a machine, users can receive recommendations of the waveforms required for condition monitoring of that machine. The recommendations are based on machine properties and the device's capabilities.

5.2 Orbit DCM

5.2.1 Recommended Bently Practices for Orbit DCM

Recommended Best Practices has been updated to support the Orbit DCM device. By mapping the Orbit DCM Device channels to a machine, users can receive recommendations of the Waveforms required for condition monitoring of that machine. The recommendations are based on machine properties and the device's capabilities.

5.2.2 Device Backward Compatibility

System 1 is now backward compatible with Orbit DCM firmware, allowing connections with older versions of Orbit DCM firmware. This update makes System 1 both forward and backward compatible, enabling any version of Orbit DCM firmware to connect with System 1 version 25.1 and above.

5.2.3 Delay in State-Based Data Collection

Rapidly reversing machines like pressing machines, shovels, and trucks need a settling time after entering a new state. A delay is implemented to pause data collection, allowing the machine to reach a stable operating condition to collect data relevant for condition monitoring of the machine.

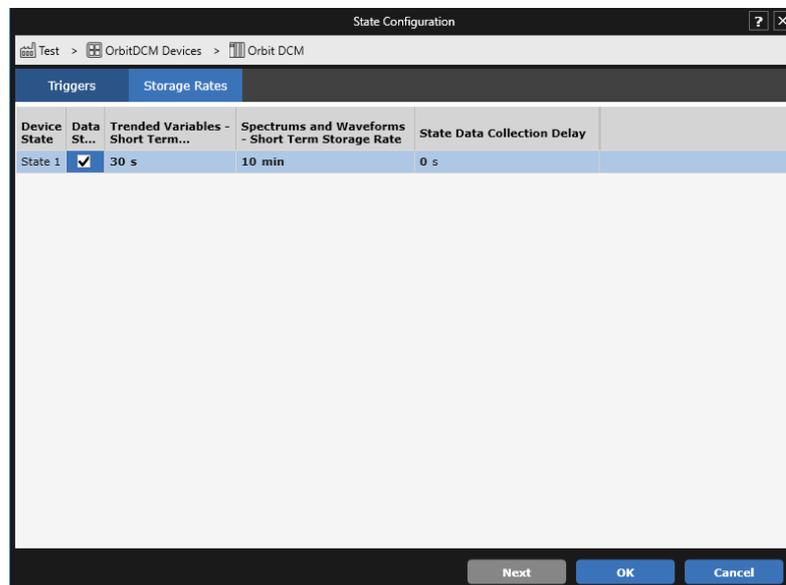


Figure 5.2.3 Configuring State Delay from State Configuration

5.2.4 Machine Stopped Detection

The machine stopped is a valid status for any machine. An option is now available in the Orbit DCM Speed channel configuration to tag the machine speed measurement as valid when the device detects a gradual decrease in speed followed by stopping.



Figure 5.2.4 Speed Signal Valid for Machine Stopped property

6. DECISION SUPPORT

6.1 Template Server

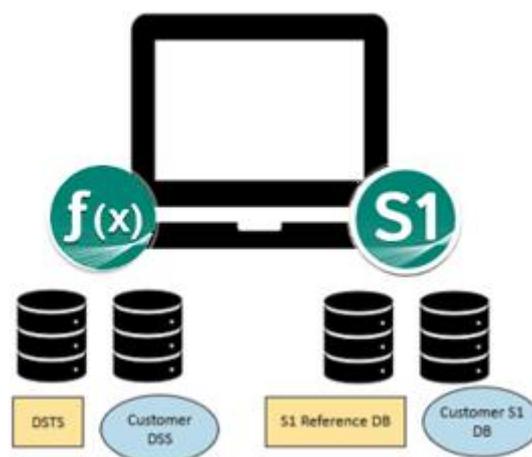
Decision Support v25.1 enables users to create Decision Support Template Servers (DSTS). DSTSs are Decision Support Servers (DSSs) that do not process any rules or utilize processing resources. Template servers allow users to create "template" deployments to a reference System 1 database for the purpose of utilizing the Smart Copy/Paste functionality to deploy rules on running DSSs more efficiently.

DSTSs are coupled with a System 1 configuration (S1CFG) file that when used together, allows users to transport these templated deployments from one computer to another for easy access to these "template" deployments.

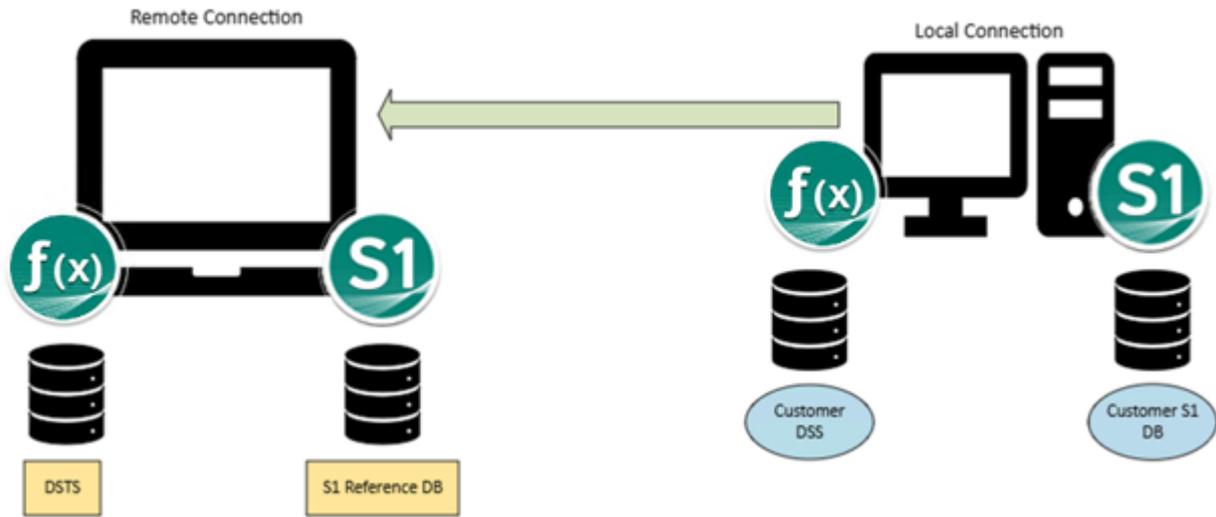
To create a DSTS, simply connect a regular DSS to the System 1 database you wish to use as a reference database, add your deployments using the usual process, and then save a copy of the DecisionSupportServer.db3 file under a new name. After you create the new file, move the file to the C:\ProgramData\Decision Support\Templates folder, and restart the DSS service.

If you plan to take the DSTS to a different computer than it was created, ensure that you create a S1CFG backup of the System 1 database used to create the template deployments. Restore the S1CFG using the "Restore Config Database" option either on the same computer that you are taking the DSTS or to another computer to which you will connect the DSTS in order to ensure the connection is still made between the DSTS and the S1 database.

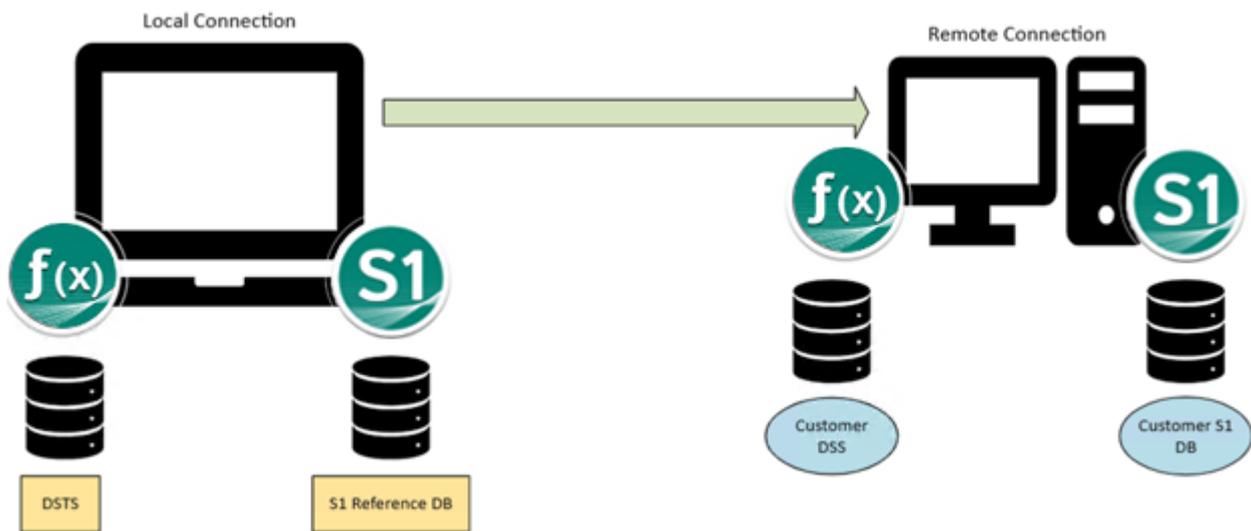
The following setups are supported for use with DSTSs and reference S1 databases:



Local DSTS and Local DSS scenario



Remote DSTS and Local DSS Scenario



Local DSTS and Remote DSS scenario

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