

RELEASE NOTES

VibroSight® software version 2.9.4



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REVISION RECORD SHEET

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PREFACE

About these release notes

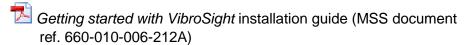
These release notes provide important information about the VibroSight® software from Meggitt Sensing Systems. They are applicable to all installations using the versions of VibroSight software described by this document, namely:

• Meggitt Sensing Systems VibroSight 2.9.4 (CD2: part number 609-004-000-014).

The release notes contain information about changes from previous versions, such as new features and improvements, solved problems, bug fixes, and compatibility (hardware and software).

For more general information on the actual software, or the entire condition monitoring system (CMS), please refer to the following Meggitt Sensing Systems (MSS) documentation:







VibroSight application notes and technical notes.

Users who are familiar with previous versions of VibroSight may also find it useful to refer to the respective release notes included in their installation.

Structure of the release notes

This version of the VibroSight release notes presents the information in the following order: general items first, then in terms of the software modules that constitute VibroSight, such as Configurator, Server, Vision and so on.

You should read those sections that are most relevant to you and then keep the document for future reference.



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1. Licensing

In general, the licence key required to enable purchased product options remains unchanged for upgrades between patch level releases (for example, from version 2.9.3 to version 2.9.4).

However, a new licence key is required for upgrades between minor version releases (for example, from version 2.8.x to version 2.9.4).

To obtain a new VibroSight licence key file or for further information on licence keys, contact Meggitt Sensing Systems customer support. See section 6.

2. New features



VibroSight Configurator

2.1. Card identification

VM600 cards (XMC16, XMV16 and XMVS16) can now be identified in a configuration using their IP addresses or hostnames – as resolved by a domain name system (DNS). This is done at the card parameter level of a configuration by setting the Connection Mode of the card to IP Address and then typing the IP address (in dot-decimal notation) or the hostname of the card in the IP Address field.

Previously, VM600 cards could only be identified by using their serial numbers and automatic discovery to obtain the IP address of the card. This is done at the card parameter level of a configuration by setting the Connection Mode of the card to Automatic Discovery and then typing the serial number (xxxxxxx) of the card in the in IP Address field.

2.2. Relationship between points and machinery elements in the Machinery

A point (input channel) configured for a VM600 card (XMC16, XMV16 or XMVS16) can only be assigned to a single machinery element (Facility unit or Machine unit) node in the Machinery view. That is, a 0 to 1 relationship is possible between a point and a machinery element.

Previously, it was possible to use the same point in multiple different machinery elements, that is, a 0 to n relationship was possible between a point and machinery elements.





VibroSight System Manager

2.3. Database statistics

A Statistics tool has been added to the existing Database management tools in VibroSight System Manager. This tool provides a database statistics wizard which can be run by the user in order to select a database and the required statistics options (including a time range) before generating and saving summary statistics for the database in a .txt file.

The summary statistics file gives an overview of the measurement data, states and reference data, and database configurations, thereby providing a quick overview of the contents of a database. This information can be useful for the identification of data, system verification, benchmarking, size characterization and verification of the data logging footprint. (Note: The database statistics file gives the same information that is generated after a database copy operation.)



3. Solved problems and bug fixes

General

3.1. Access rights

In certain circumstances (depending on the computer operating system and the access rights / user account control (UAC) settings used when VibroSight was installed or upgraded), the user levels (access rights) available can be restricted.

These user level and access right restrictions prevent access to certain software functions, such as changing user level passwords and changing user levels, which in turn blocks access to software functions that are restricted to a certain user level. This bug has now been eliminated.



VibroSight System Manager

3.2. Publishing a VibroSight OPC Server

Publishing a VibroSight OPC Server caused VibroSight System Manager to stop responding, due to a problem with the underlying version of the Microsoft .NET Framework used by VibroSight OPC server. This bug has now been eliminated.

3.3. Memory leak after copying a database

After a database copy operation using the Database Copy tool in VibroSight System Manager (or the command-line equivalent), the computer memory allocated for the copy operation was not freed correctly for subsequent reuse. This bug has now been eliminated.

3.4. Registering a VibroSight server as a Windows service

In certain circumstances, attempts to register a VibroSight server as a Windows service using the VibroSight Server Register tool in VibroSight System Manager were not successful, due to problem with an underlying communications protocol. This bug has now been eliminated.



4. Compatibility

4.1. VibroSight software

VibroSight 2.9.4 is a minor version release in the 2.x.x series and replaces VibroSight 2.9.3.

Compatibility with existing databases is achieved using the database **Update** tool (from VibroSight System Manager's **Database** tools) which supports the continued used of configurations and data from previous versions. See section 5.1.1.

NOTE:

Refer also to the latest version of the VibroSight software data sheet or the Getting started with VibroSight installation guide for further information on VibroSight's compatibility and prerequisites.

4.1.1. Microsoft Windows operating systems

VibroSight 2.9.4 is compatible with the 32-bit versions and the 64-bit versions of Microsoft ® Windows ® operating systems.

4.1.1.1. Microsoft .NET Framework

VibroSight 2.9.4 requires that the Microsoft .NET Framework 4.5 is installed on the computer.

NOTE: Microsoft .NET Framework 4.5 is required for VibroSight 2.9.4.

Microsoft .NET Framework 4 (Standalone Installer) is required for

VibroSight 2.9.2 and 2.9.3.

Microsoft .NET Framework 3.5 SP1 is required for VibroSight 2.9.1 or

earlier.

4.1.2. Apple Bonjour

VibroSight 2.9.4 continues to use Apple ® Bonjour for the networking related to VibroSight hardware (VM600 cards and VibroSmart DMS modules and devices) discovery and VibroSight Server to hardware communications.

NOTE: The 64-bit version of Bonjour must be installed on 64-bit Windows

operating systems.

Only Apple Bonjour for Windows version 1.0.106 should be used with

VibroSight 2.7.x or earlier.

Only Apple Bonjour for Windows version 3.0 or later should be used with

VibroSight 2.8.x or later.

(VibroSight 2.9.4 continues to use universal plug and play (UPnP) networking protocols for the networking related to VibroSight software module discovery and inter-module communications.)



4.1.3. Sybase SQL Anywhere software

VibroSight uses the Sybase ® SQL Anywhere database software in its standard configuration. VibroSight 2.9.4 remains compatible with the previously deployed version of SQL Anywhere, namely SQL Anywhere version 11.0.1. For VibroSight systems that have been installed and running with previous versions, upgrading or reinstallation of the database software is not mandatory when upgrading to VibroSight 2.9.4.

However, Meggitt Sensing Systems recommends updating SQL Anywhere to version 11.0.1.2867 in order to avoid potential memory issues that have been fixed by Sybase. A software update (patch) is included on the Sybase CD (CD1) which should be run in order to update Sybase SQL Anywhere from version 11.0.1 to version 11.0.1.2867: SA11 Full Win32+x64.1101 2867 EBF.exe. See section 5.2.

(If Sybase SQL Anywhere is not updated to version 11.0.1.2867, VibroSight 2.9.4 will still run but a warning message will be displayed by the VibroSight Server.)

4.2. VibroSight hardware

4.2.1. VM600 card firmware

There are firmware (embedded software) updates for the VM600 cards (XMC16, XMV16 and XMVS16) corresponding to VibroSight 2.9.4.

The latest firmware for the CPUR card remains:

Applications: applications-640-012-001-003.tgz

Base System: base-system-640-011-001-003.tgz.

The latest firmware for the XMC16, XMV16 and XMVS16 cards becomes:

Applications: applications-640-010-001-006.tgz

Base System: base-system-640-003-001-007.tgz.

Therefore, for earlier versions of the XMC16, XMV16 and XMVS16 cards, a firmware upgrade is recommended. See section 5.3.1.

4.2.2. VibroSmart DMS device firmware

There are no firmware (embedded software) updates for the VibroSmart DMS modules and devices corresponding to VibroSight 2.9.4.

The latest firmware for the VSI010 module is:

• 642-002-001-001.xmsifw.

The latest firmware for the VSN010 switch is:

• 642-004-001-001.redboxfw.



The latest firmware for the VSV300 and VSV310 modules is:

• 642-001-001-001.xtranfw.

Therefore, for earlier versions of the VibroSmart DMS modules and devices, no firmware upgrades are recommended. See section 5.3.2.



5. Upgrade procedure

This section describes the procedure for upgrading a VibroSight system from a previous version. Perform the steps in the given sequence in order to complete a system upgrade.

NOTE:

It is strongly recommended to verify the version of firmware running in the related hardware (VM600 cards and VibroSmart DMS modules and devices) before starting a VibroSight system upgrade, in order to establish if a firmware update is also required. See section 5.3.3.

5.1. Upgrading the VibroSight software

- 1. If it is not necessary for the VibroSight-based system to remain operational during the upgrade procedure, back up any important (required) VibroSight databases in the following way:
 - Exit all VibroSight software modules (clients and servers) no VibroSight applications (such as Vision, Configurator or Server) should be running.
 - Copy the three files (*.db, *.config and *.log) from the directory where your
 database files are located to another location, for example, to a specific backup
 directory.

NOTE: The default data (data path) directory is C:\VibroSight Data

Or if it is necessary for the VibroSight-based system to remain operational for as long as possible during the upgrade procedure, back up any important (required) VibroSight databases in the following way:

- Exit all VibroSight software modules (clients) no VibroSight applications (such as Vision or Configurator) should be running.
- Start VibroSight System Manager and use the database Backup tool from VibroSight System Manager's Database tools, and follow the instructions presented by the Database Backup Wizard.

NOTE: It is necessary to be logged in to System Manager as 'Admin' in order to have the user rights to access the database tools:

Select your VibroSight Host (computer) in the System Explorer tree structure and click Login (from VibroSight System Manager's Access Rights tools).

NOTE: Refer also to the *Backing up a database* topic in the **P** *VibroSight help.*



- 2. Make backup copies of any important (required) VibroSight Vision projects in the following way:
 - Create an archive file (for example, *.zip) containing all of the files (*.xml and *.xmsproj) in the directory where your project files are located.

NOTE: The default project directory is:

C:\Documents and settings\username\My Documents
\VibroSight\Projects

- 3. Ensure that no VibroSight software modules are running.
- 4. Remove the currently installed version of the VibroSight software (for example, VibroSight Standard Edition) using Windows Add or Remove Programs, in one of the following ways:
 - Click Start > Settings > Control Panel and then double-click Add or Remove Programs.
 - Or click Start, click Control Panel and then double-click Add or Remove Programs.
- 5. Install the latest version of the VibroSight software by inserting the VibroSight CD (CD2) into the CD/DVD drive of the computer and follow the instructions presented by the VibroSight installation wizard.

NOTE:

Refer to the Getting started with VibroSight installation guide for information on installing the VibroSight software.

- 6. Restart VibroSight Server and ensure that the required communications are enabled. For example, enable the card, module and device drivers according to the hardware in the system:
 - For example, click Data > Acquisition > XMC16/XMV16 Card Driver or Data > Acquisition > VibroSmart Module Driver.
- 7. Restart VibroSight Vision and ensure that live data is being received from the hardware and displayed in Vision.
- 8. The VibroSight system is now up and running.

5.1.1. Updating the internal structure of a VibroSight database

When VibroSight Server is started, it checks the status of the database and will automatically inform the user if any internal structures of the database need to be updated before proceeding.



1. Update a VibroSight database in the following way:

Start VibroSight System Manager and use the database Update tool from VibroSight System Manager's Database tools, and follow the instructions presented by the Database Update Wizard.

NOTE:

It is necessary to be logged in to System Manager as 'Admin' in order to have the user rights to access the database tools:

Select your VibroSight Host (computer) in the System Explorer tree structure and click Login (from VibroSight System Manager's Access Rights tools).

NOTE:

Refer also to the *Updating a database* topic in the *VibroSight help*.

5.2. Upgrading the SQL Anywhere software

VibroSight software is compatible (and extensively tested) with SQL Anywhere versions 11.0.0 and 11.0.1.

However, Sybase has fixed some known memory issues in SQL Anywhere version 11.0.1.2867. Therefore, it is recommended to upgrade all VibroSight systems to this version of SQL Anywhere.

Determine the version of the SQL Anywhere database engine installed on a computer in the following way:

1. From the Start menu, click **Start > All Programs > SQL Anywhere 11 > Sybase Central**.

The Sybase Central window appears. Sybase Central is a GUI-based management tool for Sybase products.

2. Click Help > About Sybase Central.

The About Sybase Central windows appears, displaying the version information for SQL Anywhere (and any other installed Sybase products).

NOTE: Refer also to the *Determining the version of SQL Anywhere installed on a computer* topic in the *VibroSight help.*

If SQL Anywhere 11 software version 11.0.0 is installed on the computer, it is necessary to first remove version 11.0.0, then install version 11.0.1 from the Sybase CD (CD1).



If SQL Anywhere 11 software version 11.0.1 is installed on the computer, simply update to version 11.0.1.2867 by running the software update (patch) included on the Sybase CD (CD1).

When SQL Anywhere 11 software version 11.0.0 is installed on the computer:

WARNING:

Do not use the SQL Anywhere 11.0.1 setup to upgrade directly to software version 11.0.1 from software version 11.0.0. Instead, it is recommended to upgrade the Sybase database software as follows:

- 1. Remove SQL Anywhere 11.0.0, using the Windows Add or Remove Programs tool.
- 2. Install SQL Anywhere 11.0.1, using the Sybase SQL Anywhere 11.0.1 CD (CD1).

Refer also to the Getting started with VibroSight installation guide for information on installing the Sybase software.

1. Exit all VibroSight software modules (clients and servers) – no VibroSight applications (such as Vision, Configurator or Server) should be running – as this also stops the SQL Anywhere database engine.

The stightning icon that appears in the notification area (at the far right of the task bar) to indicate that a Sybase database engine is running should no longer be shown.

- 2. Remove the currently installed version of Sybase SQL Anywhere using Windows Add or Remove Programs, in one of the following ways:
 - Click Start > Settings > Control Panel, then double-click Add or Remove Programs
 - Or click Start, click Control Panel and then double-click Add or Remove Programs.

And remove \$\frac{1}{2} \text{ SQL Anywhere 11.}

- 3. Restart the computer.
- 4. Install Sybase SQL Anywhere VibroSight 11.0.1.2044 by inserting the Sybase CD (CD1) into the CD/DVD drive of the computer and following the instructions presented by the SQL Anywhere 11 installation wizard.
- 5. Restart the computer.

Without this final computer restart, VibroSight Server may not be able to start the SQL Anywhere database engine.



When SQL Anywhere 11 software version 11.0.1 is installed on the computer:

- 1.Update to Sybase SQL Anywhere VibroSight 11.0.1.2867 by inserting the Sybase CD (CD1) into the CD/DVD drive of the computer, running the SA11_Full_Win32+x64.1101_2867_EBF.exe software update (patch) and following the instructions presented by the SQL Anywhere 11 installation wizard.
- 2. Restart the computer.

5.3. Updating the VibroSight hardware

Appropriate files and tools are included in the installation package to allow VM600 cards (CPUR, XMC16, XMV16 and XMVS16) and VibroSmart DMS devices (VSI010, VSN010, VSV300 and VSV310) to be updated to the latest standard, in order to take advantage of improvements to the VibroSight software.

5.3.1. VM600 card firmware

The latest VM600 card firmware files are copied to a directory on your computer as part of the VibroSight installation process.

NOTE: The default firmware directory for VM600 cards is:

C:\Program Files\Meggitt\VibroSight 2\Firmware\VM600

The firmware files for a VM600 card can be found in the appropriate subfolder and identified by their .tgz file name extension. For example, the XMV16 subfolder contains the applications and base system firmware for use by XMV16 cards. Any additional firmware updates received from Meggitt Sensing Systems should also be stored in these directories.

Table 1 shows the compatibility between VibroSight software and VM600 card hardware (that is, XMC16, XMV16 and XMVS16 card pair firmware).



Table 1: VibroSight 2.9.4 and VM600 card firmware compatibility

	VM600 card firmware						
VibroSight client- server software	Applications- 640-004- 001-003.tgz	Applications- 640-010- 001-001.tgz	Applications- 640-010- 001-002.tgz	Applications- 640-010- 001-003.tgz	Applications- 640-010- 001-004.tgz	Applications- 640-010- 001-005.tgz	Applications- 640-010- 001-006.tgz
(VibroSight version CD part number)	Base-system- 640-003- 001-001.tgz	Base-system- 640-003- 001-002.tgz	Base-system- 640-003- 001-003.tgz	Base-system- 640-003- 001-004.tgz	Base-system- 640-003- 001-005.tgz	Base-system- 640-003- 001-006.tgz	Base-system- 640-003- 001-007.tgz
1.0.0 609-004-000-001	√	Х	Х	Х	Х	Х	х
2.0.0 609-004-000-003	Х	1	Х	Х	Х	Х	х
2.0.5 609-004-000-004	х	1	х	х	х	Х	х
2.0.6 609-004-000-005	Х	>	х	х	х	х	х
2.5.0 609-004-000-006	Х	/	х	х	х	х	х
2.7.5 609-004-000-008	х	>	1	х	х	х	х
2.8.0 609-004-000-007	Х	>	1	х	х	х	х
2.9.0 609-004-000-010	Х	Х	х	1	х	х	х
2.9.1 609-004-000-011	х	Х	х	х	1	1	✓
2.9.2 609-004-000-012	х	х	х	х	1	1	✓
2.9.3 609-004-000-013	х	Х	х	х	1	1	✓
2.9.4 609-004-000-014	х	х	х	х	1	1	1



5.3.2. VibroSmart DMS device firmware

The latest VibroSmart DMS device firmware files are copied to a directory on your computer as part of the VibroSight installation process.

NOTE: The default firmware directory for VibroSmart DMS devices is:

C:\Program Files\Meggitt\VibroSight 2\Firmware\VibroSmart

The firmware files for a VibroSmart DMS device can be found in the appropriate subfolder and identified by their .*fw file name extension. For example, the VSV-300 subfolder contains the firmware for use by VSV300 modules. Any additional firmware updates received from Meggitt Sensing Systems should also be stored in these directories.

Table 2 shows the compatibility between VibroSight software and VibroSmart DMS device hardware (that is, VSI010, VSN010, VSV300 and VSV310 device firmware).

Table 2: VibroSight 2.9.4 and VibroSmart DMS device firmware compatibility

	VibroSmart DMS device firmware				
VibroSight client-server software (VibroSight version CD part number)	VSI010	VSN010	VSV300	VSV310	
2.8.0 609-004-000-007	642-002-001- 001.xmsifw	642-004-001- 001.redboxfw	642-001-001- 001.xtranfw		
2.9.1 609-004-000-011	642-002-001-	642-004-001-	642-001-001-	642-001-001-	
	002.xmsifw	002.redboxfw	002.xtranfw	002.xtranfw	
2.9.2 609-004-000-012	642-002-001-	642-004-001-	642-001-001-	642-001-001-	
	002.xmsifw	002.redboxfw	002.xtranfw	002.xtranfw	
2.9.3 609-004-000-013	642-002-001-	642-004-001-	642-001-001-	642-001-001-	
	002.xmsifw	002.redboxfw	002.xtranfw	002.xtranfw	
2.9.4 609-004-000-014	642-002-001-	642-004-001-	642-001-001-	642-001-001-	
	002.xmsifw	002.redboxfw	002.xtranfw	002.xtranfw	



5.3.3. Updating the firmware using VibroSight System Manager

When performing VibroSight software upgrades, it is strongly recommended to systematically upgrade the firmware of VM600 cards and VibroSmart DMS devices to the latest compatible version.

Failure to perform a necessary VibroSight card firmware update may lead to incoherent system behaviour and affect the proper functioning of data acquisition in a system. It is only in systems where the firmware running on the VM600 cards and VibroSmart DMS devices already corresponds to the latest available version that no firmware update is required. Therefore, it is strongly recommended to verify the version of firmware running on the hardware before starting a VibroSight system upgrade, in order to establish if a firmware update is also required.

WARNING:

Changing the firmware of the VibroSight hardware is a special administrative task that can – if performed unintentionally – affect the proper functioning of data acquisition in a system.

It is therefore strongly recommended to change the firmware of the VibroSight hardware only when it is necessary. For example, when the devices must be updated to be compatible with a VibroSight software upgrade.

Update the firmware on a VibroSight device using the Change Firmware tool (from VibroSight System Manager's Maintenance tools):

- 1. Ensure that the computer running the VibroSight software is on the same network as the hardware (VM600 card or VibroSmart DMS module or device) to be updated.
- 2. Start VibroSight System Manager and navigate to the Devices tree structure in the System Explorer window.

The Devices tree lists all of the VibroSight compatible hardware that VibroSight can see on the network. If there are no VM600 cards or VibroSmart DMS devices in the tree structure or some cards are missing, please verify your network connections.

3. Select the card or device that requires its firmware to be changed.

The Actions tool window updates to show the available tools.

4. Click Change Firmware in the Maintenance tools group of the Actions window.

The Change Firmware dialog box appears.

5. Click the **Add** button and select the new firmware files for the card or new firmware file for the device.

NOTE:

The Change Firmware dialog box automatically opens the firmware folder corresponding to the VM600 card or VibroSmart DMS device selected.

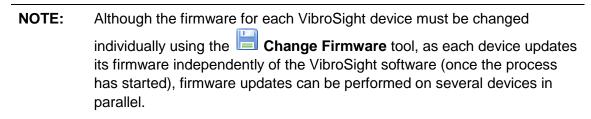
. $\ensuremath{\text{tgz}}$ files are for VM600 cards and . * $\ensuremath{\text{fw}}$ files are for VibroSmart DMS devices.



6. Click the **Finish** button to start the firmware upgrade process.

For VM600 cards and VibroSmart DMS devices, the firmware upgrade process can take up to 5 minutes, during which:

- The IP address beside the device's serial number in the Devices tree structure can disappear.
- The LEDs on the front panel of the device can change to reflect the status of the upgrade.
- 7. Repeat steps 3 to 6 for each device that requires a firmware update.



8. After the firmware upgrade, verify that the VibroSight system is acquiring data from the cards.

NOTE: Refer also to the Changing the firmware topics in the VibroSight help.

The Change Firmware tool can be used to load a VibroSight device with any version of firmware. It is therefore possible to change a device's firmware to any previously available version, as well as the latest update.

This feature can be useful in certain situations, for example, swapping spare VibroSight hardware between different VM600 racks or VibroSmart DMSs, where systems are operating with different versions of VibroSight.

5.4. Final check

After upgrading the VibroSight software, it is recommended to open the configuration and run a consistency check in order to ensure that the configuration has not been inadvertently modified by any changes to the VibroSight software, internal database structure and firmware for the hardware (VM600 cards and VibroSmart DMS modules).



6. Customer support

6.1. Contacting us

Meggitt Sensing Systems' worldwide customer support network offers a range of support including Technical support and Sales and repairs support. For customer support, please contact your local Meggitt Sensing Systems representative. Alternatively, contact our main office:

Customer support
Meggitt SA
Route de Moncor 4
PO Box 1616
CH-1701 Fribourg
Switzerland

Telephone: +41 (0) 26 407 11 11 Email: energysupport@ch.meggitt.com Web: www.meggittsensingsystems.com

6.2. Technical support

Meggitt Sensing Systems' technical support team provide both pre-sales and post-sales technical support, including:

- General advice
- Technical advice
- Troubleshooting
- · Site visits.

6.3. Sales and repairs support

Meggitt Sensing Systems' sales team provide both pre-sales and post-sales support, including advice on:

- New products
- Spare parts
- Repairs.