



**IMAGINE.
IMPLEMENT.
IMPROVE.**

AMS Device Manager 9.0
FREQUENTLY ASKED
QUESTIONS
For Customer Distribution

AMS™ Suite: Intelligent Device Manager 9.0

Emerson Process Management is pleased to announce the immediate availability of **AMS Suite: Intelligent Device Manager 9.0**, the premier predictive maintenance software application for managing intelligent field devices. This release delivers a number of new features and benefits including a new level of integration with the DeltaV™ 9.3 digital automation system, smart wireless capabilities, and the new Micro Motion® Meter Verification SNAP-ON™ application.

When installed on DeltaV 9.3 workstations, AMS Device Manager 9.0 is the integrated user interface for managing FOUNDATION™ fieldbus and HART® field devices. The release features support for smart wireless, user synchronization between DeltaV and AMS Device Manager, and more tightly-integrated capabilities, such as adding a device type and renaming or replacing a device.

Answers to the most frequently asked questions on Version 9.0 are provided below. Please contact your local Emerson representative if you have any additional questions or comments. We want to help you be successful using AMS Device Manager!

FREQUENTLY ASKED QUESTIONS

Q1. Why should I upgrade to AMS Device Manager 9.0?

Users who migrate to DeltaV 9.3 will need to upgrade to the full AMS Device Manager system at that time. By upgrading to AMS Device Manager 9.0, you will gain:

- Smart wireless support to extend the benefits of PlantWeb®
- DeltaV and AMS Device Manager user account synchronization
- Ability to use Windows user accounts to enforce more secure user names and passwords
- Audit trail documentation in a single application
- Updated AMS ValveLink® (7.3.2) and QuickCheck™ SNAP-ON applications
- Support for more devices and workstations
- Access to meter health diagnostics with the Micro Motion Meter Verification SNAP-ON application
- Compatibility with DeltaV versions 9.3, 8.4.1, and 8.4
- Support for Microsoft Windows XP Professional SP2, and Microsoft Windows 2003 Server
- Seamless launch of device tasks, methods, and SNAP-ON applications directly from DeltaV
- More complete instrument and valve management application
- New FOUNDATION fieldbus functionality enabled by consolidated AMS Device Manager
 - Calibration Management support for FF devices
 - Device Audit Trail by Tag or Device ID
 - Filtering of Audit Trail viewer contents
 - Printing support for Configuration, Device Lists, and Audit Trail
 - Exporting of data (XML)
 - Tag Search
 - Backup/restore of the device database
 - AMS Device Manager Web Client
 - SNAP-ON support

Q2. What is the recommended software deployment architecture when using AMS Device Manager 9.0 with a DeltaV 9.3 control system? What about AMS Device Manager 9.0 with a DeltaV 8.4 or 8.4.1 system?

DeltaV 9.3 and AMS Device Manager 9.0 can be co-deployed on the same machine. Installation of AMS Device Manager 9.0 is required on DeltaV Operate stations in order to view device status; this installation will not count as a licensed AMS Device Manager Client SC station.

DeltaV 8.4/8.4.1 users can use AMS Device Manager 9.0 in a standalone deployment only. Contact your local Emerson representative for more information on deployment options and recommendations.

For multiple DeltaV systems, please contact your local Emerson representative.

Q3. Which host systems are compatible with AMS Device Manager?

AMS Device Manager communicates through open standard protocols to a variety of host system interfaces. The following interfaces are fully-supported:

- DeltaV System Interface
- Ovation[®] System Interface
- ROC Interface
- HART Multiplexer Interface
- HSE Interface
- HART Over PROFIBUS Interface
- MTL8000 Mark 2 BIM and eBIM Interface
- STAHL HART Interface
- RS3[®] System Interface
- PROVOX[®] System Interface
- 1420 Wireless Gateway

Q4. Is AMSinside still available with my DeltaV 9.3 system?

AMSinside has been upgraded to full AMS Device Manager and is no longer a separate item. DeltaV 9.3 users will need to install AMS Device Manager 9.0 to utilize AMSinside capabilities. Integrated installations will require installation of AMS Device Manager 9.0 on DeltaV Operate stations in order to view device status; this installation will not count as a licensed AMS Device Manager Client SC station. Additional information is available from your local Emerson representative.

Q5. Do I need to uninstall my previous version of AMS Device Manager before installing AMS Device Manager 9.0?

Automatic updates are supported from AMS Device Manager 7.0, 7.0 Service Packs 1 and 2, 7.6, 8.0, and 8.1. All other versions of AMS Device Manager will require either an uninstall or an upgrade to a supported version.

Q6. Will I need a new PC in order to run AMS Device Manager?

In most cases, no PC upgrade is necessary. A Pentium PC with 2 GHz processor, 1 GB free memory, and 1 GB free hard disk space will provide satisfactory performance with AMS Device Manager 9.0. When installing on a DeltaV workstation, refer to the DeltaV system planning guide for PC specifications. The Operating System Requirements section of the AMS Device Manager Quick Install Guide provides detailed recommendations for standalone deployment.

Q7. Which of my field devices will communicate with AMS Device Manager 9.0?

AMS Device Manager is an open application with support for industry standards such as enhanced EDDL, and provides support for over 280 HART and 160 FOUNDATION fieldbus devices. Visit <http://www.emersonprocess.com/ams/prodevi.htm> for complete listing of all AMS-aware field devices.

For an easy-to-use source for the latest device driver files for AMS Device Manager, visit <http://www.emersonprocess.com/ams/prodedes.htm>. Use this website to download fully-tested device drivers provided by the device manufacturer and verified to be compatible with the AMS Device Manager version indicated.

Q8. What are SNAP-ON applications and why are they valuable?

SNAP-ON applications are licensed software applications that enhance AMS Device Manager's functionality for special purposes. They are integrated with AMS Device Manager using common methods for data management and communication. Each SNAP-ON application is distinct and separately licensed, with the exception of Calibration Assistant (which does not require separate installation). SNAP-ON applications currently available with AMS Device Manager include:

- Micro Motion Meter Verification
- Calibration Assistant
- QuickCheck
- Root Cause Diagnostics
- Engineering Assistant
- AMS ValveLink
- Masoneilan ValVue and ValVueFF
- Flowserve ValveAnalysis
- Smar Valid

For more information on SNAP-ON applications, visit www.assetweb.com.

Q9. What is a HART multiplexer, and how does AMS Device Manager interface with it?

A HART multiplexer is a gateway device used for communications between a PC and HART field devices. It is typically used when an online AMS Device Manager system is needed and there is an unsupported host system. HART multiplexers enable you to attach field devices and instrument loops to a single PC COM port. In many cases, a RS-232 to RS-485 converter or a supported RS-485 to Ethernet converter must be installed between the HART multiplexer and the PC to enable communications to occur. Refer to the AMS Device Manager release notes for details on types of supported HART multiplexers.

Q10. What is enhanced polling?

Certain HART multiplexer networks support enhanced polling (fast scanning) capability. These multiplexers query all connected HART devices and cache the response (response code, base device status, and command data) while bypassing the default polling rate. AMS Device Manager 9.0 supports enhanced polling, providing faster notification of device alert conditions. HART multiplexers that do not support enhanced polling scan at the default network polling rate and device alert conditions are displayed in Alert Monitor at the same rate. See the Release Notes for a list of HART multiplexer networks that support enhanced polling with AMS Device Manager 9.0.

Q11. How does AMS Device Manager interface with the Remote Operations Controller (ROC)?

The ROC Interface allows you to use AMS Device Manager to view and configure HART devices connected to a ROC network. The ROC Polling Services and ROCLINK 800 software programs must be installed on the same AMS Device Manager station as the ROC network. Only one ROC network can be connected to an AMS Device Manager station. See the Installation Guide for software and hardware requirements for the ROC. For more information on the ROC and ROCLINK 800, visit: <http://www.emersonprocess.com/flow/Emerson/products/roclinkFW.html>

Q12. Can AMS Device Manager interface with FOUNDATION fieldbus devices through a HSE device like the Rosemount® 3420?

Yes. The FOUNDATION fieldbus HSE Interface allows you to use AMS Device Manager to view and configure FOUNDATION fieldbus devices connected to HSE linking devices. HSE linking devices are connected to an AMS Device Manager station through an Ethernet card (a dedicated Ethernet card is recommended). AMS Device Manager supports up to eight HSE linking devices in one FOUNDATION fieldbus HSE network, but only one FOUNDATION fieldbus HSE network can be installed on an AMS Device Manager station. To connect to multiple FOUNDATION fieldbus HSE networks, you must use multiple AMS Device Manager stations.

AMS Device Manager has also been shown to work with the Smar and Softing linking devices in addition to the Rosemount 3420.

Configuration of the Rosemount 3420 is accomplished through its web interface. It is not configured using AMS Device Manager.

Q13. Can I trend through AMS Device Manager?

AMS Device Manager Integration Tools provides the ability to use third-party trending applications. AMS Device Manager 9.0 also supports enhanced EDDL field devices that include data graphing and trending charts.

Q14. Does AMS Device Manager support smart calibrators?

AMS Device Manager supports an interface to the following smart calibrators:

- Beamex MC5
- Druck DPI605 / DPI615 / MCXII / TRXII
- Fluke 702 / 743 / 744
- Rosemount Validator P330 / P370 / T460 / T490
- Transmation 195 / 196 / 197
- Beta Calibrators BetaFLEX / BetaGauge II / MasterCal 922

Q15. Can AMS Device Manager export data to third party applications?

You can export AMS Device Manager data to a third party application using the Generic Export operation, which copies data from the database to a XML-formatted file for the purpose of importing the data to another application.

Q16. Can I import data for other applications into AMS Device Manager? What kind of data?

Yes, you can import device data from other systems into the AMS Device Manager database. The Generic Import operation lets you move device configuration data into AMS Device Manager from a non-AMS Device Manager system. You can import configuration data for future devices, conventional devices, and HART devices.

Q17. Where can I get more information on AMS Device Manager 9.0?

Visit our website: <http://www.emersonprocess.com/systems/reach/>.



AMS Suite: Intelligent Device Manager powers PlantWeb through predictive and proactive maintenance of instruments and valves to improve availability and performance.

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