

Rosemount™ Engineering Assistant Software for Rosemount MultiVariable™ Transmitters

What is Engineering Assistant (EA)?

The EA software is a PC-based software program used to configure and calibrate Rosemount MultiVariable Mass Flow Transmitters. EA is required for configuration of Rosemount 3051SMVs with mass, volumetric, and energy flow option and the legacy Rosemount 3095. EA can also be used to configure the Rosemount 333 Tri-Loop™.

What is the difference between EA 5 and EA 6?

EA 5 and EA 6 are two separate software programs that serve different needs.

- EA 5 supports the following:
 - Rosemount 3051SMV with FOUNDATION™ Fieldbus protocol
 - Rosemount 3051S FOUNDATION Fieldbus with the mass flow calculation
 - Legacy Rosemount 3095 with HART® protocol
 - Rosemount 3095 with FOUNDATION Fieldbus protocol
 - Rosemount 333 Tri-Loop
- EA 6 is used to configure the Rosemount 3051SMV with HART protocol.

EA 6 is not a replacement for EA 5 as they configure different devices. If both software programs are required, the EA Launch Portal can be used to easily launch the correct version.

What do "Stand-Alone" and "SNAP-ON" mean?

Stand-Alone means that EA can be installed by itself and run a version of EA that does not require any additional software. The SNAP-ON™ version runs as a SNAP-ON application for AMS Device Manager, allowing the user to configure all devices from within AMS Device Manager. Both EA 6 and 5 have a SNAP-ON and Stand-Alone version.

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What version of EA do I need for my device and operating system?

Device	Windows™ version	EA Stand-Alone version ⁽¹⁾	EA SNAP-ON version
Rosemount 3051SMV with HART® Protocol	Windows 11, Windows 10, Server 2019, Server 2016	6.3 or newer	6.3 or newer
Rosemount 3051SMV with FOUNDATION™ Fieldbus Protocol	Windows 10, Windows 7, Server 2008	5.5.1 powered by AMS 14.1	5.5.1
Rosemount 3095 with HART or FOUNDATION Fieldbus Protocol	Windows 10, Windows 7, Server 2008	5.5.1 powered by AMS 14.1	5.5.1
Rosemount 3051S FOUNDATION Fieldbus with HO1	Windows 10, Windows 7, Server 2008	5.5.1 powered by AMS 14.1	5.5.1
Rosemount 333 Tri-Loop	Windows 10, Windows 7, Server 2008	5.5.1 powered by AMS 14.1	5.5.1

(1) Windows Server versions only work with EA SNAP-ON.

What are the system requirements for Engineering Assistant 6?

- Pentium-grade processor: 500 MHz or faster
- Operating system: see operating system section of FAQ
- 256 MB RAM
- 100 MB free hard disk space
- RS232 serial port or USB port (for use with HART® modem)
- Internet connection (for download)

Do I need to have AMS Device Manager to use EA 5.5.1?

No, EA 5.5.1 powered by AMS 14.1 is the Stand-Alone version of EA 5. AMS Device Manager is running in the background but is not required to be purchased or downloaded separately from the targeted version of EA 5.5.1.

How do I order EA?

The SNAP-ON version of EA 6.3 or newer can either be ordered through the Asset Optimization business unit or downloaded via Emerson.com. However, the Stand-Alone version for first time downloads and older version upgrades is available exclusively through Emerson.com/EngineeringAssistant6.

Table 1: EA 5 and 6 Ordering Information

What user wants	What user has	User action	Model number
EA 5 or 6 SNAP-ON	AMS Device Manager	Contact Asset Optimization	AW7072EA

Table 1: EA 5 and 6 Ordering Information (continued)

What user wants	What user has	User action	Model number
EA 6.X Stand-Alone	Legacy version of EA	Upgrade to EA 6.X online	N/A
EA 6.X Stand-Alone	Nothing installed	Download EA 6.X online	N/A
EA 5 Stand-Alone	Nothing installed	Place order with Emerson representative for EA 5.5.1	EA2E0N1

How do I install EA?

Depending on the version being installed, there are different instructions. Following is a brief overview of how to install the various versions of EA.

Remember

EA 6 does not replace EA 5 and EA 5 does not replace EA 6.

EA 6 Stand-Alone: Online download

Note

If you have an earlier version of Engineering Assistant on your device, you will need to uninstall it prior to downloading the new version. Refer to the instructions below for guidance, [Removing Existing EA 6.x Software](#). If you are downloading Engineering Assistant for the first time, you can skip the uninstall step above and proceed to [Downloading New EA 6.x Software](#).

Removing Existing EA 6.x Software

1. Navigate to your device's **Programs and Features** section within the **Control Panel**.
2. Locate "Engineering Assistant for 3051SMV version 6.x.x".
3. Right-click on the program and select "**Uninstall**".
4. Follow the prompts until the uninstall is complete.

Downloading New EA 6.x Software

1. Navigate to Engineering Assistant Version 6 Software product page on Emerson.com and click the **Download Software link**
2. Once the file is downloaded, unzip the file, open the Engineering Assistant Standalone folder, right-click on **Setup.exe** and select **Run as Administrator**.

EA 6 and 5.5.1 SNAP-ON

Note

Both versions of the Engineering Assistant SNAP-ON can be obtained from Asset Optimization. EA 6 SNAP-ON can also be downloaded from Emerson.com via the instructions in the section above.

Procedure

1. Obtain the SNAP-ON installation.
2. Right-click **Setup.exe** file in the SNAP-ON installation folder, and select **Run as Administrator**.
3. Follow the installation wizard and restart the computer when prompted.

4. If the Engineering Assistant SNAP-ON license is not already enabled, contact an Asset Optimization representative to obtain one.
5. Enable all user permissions required to run SNAP-ON applications.

EA 5 Stand-Alone: CD installation

Procedure

1. Insert Rosemount Engineering Assistant (EA) Software disk into the CD-ROM.
2. Right-click **Setup.exe**, and select **Run as Administrator**. Install in default location and reboot the PC when prompted.

Note

If installation does not fully complete, manually enable .NET 3.5 by clicking "Turn Windows features on or off" located at Control Panel\All Control Panel Items\Programs and Features, and rerun the installation.

3. If there are old versions of EA 5, uninstall them by selecting **Remove** when prompted.

Note

Do not uninstall EA 6; EA 5 is not a replacement for EA 6.

4. In the AMS Network Configuration select "**Add...**" to add **FF HSE Network** then follow the prompts.
5. Right-click **Config.bat**, and select **Run as Administrator**.
6. Using the Fieldbus interface and its Configuration Utility software. It is possible to set power to the device if the loop power is not available.
7. If the connected Fieldbus device is at a non-commissioned address, with the Emerson USB Fieldbus Interface connected, use its Configuration Utility to "Commission" the device.
8. Close the Fieldbus Interface Configuration Utility.

How do I update my version of EA?

EA 6 follows Emerson continuous improvement processes and is updated approximately every 12 months. The newest versions contain updated standards and other important information required to use the Rosemount 3051SMV HART Device. Users should always update their version of EA to the latest version. Prior versions of EA 6 can be updated by downloading the most recent version of the software which can be accessed through the product page on [Emerson.com](https://www.emerson.com). Follow the procedure in [How do I install EA?](#) of this document.

For an updated copy of EA 5, contact Emerson sales representative.

What other equipment is needed for transmitter configuration?

A modem and connecting cables are required for connecting the transmitter to a computer for configuration. This modem can be ordered directly in the EA model string or as a separate model number.

Table 2: Engineering 6.x model/modem part numbers

Part number	Description	
Download on Emerson.com	EA 6.x -Software only	Latest version of software can be digitally downloaded at Emerson.com/EngineeringAssistant6 .
03151-9515-1000	Powered USB HART® Modem	USB HART Modem with integrated power supply can be used to interface with, and power transmitter. Good for bench/table testing where transmitter does not have external power.
03095-5105-0002	Standard Viator USB HART Modem	USB HART Modem for classic transmitter interfacing.

Table 3: Engineering 5.5.1 model/modem part numbers

Part number	Description	
EA2E0N1	EA 5.5.1 - software only	
03151-9515-1000	Powered USB HART Modem	USB HART Modem with integrated power supply can be used to interface with, and power transmitter. Good for bench/table testing where transmitter does not have external power.
03095-5105-0002	Std Viator USB HART Modem	USB HART Modem for classic transmitter interfacing.

Note

For inquiries about modems for Foundation Fieldbus transmitters, please contact your Emerson sales representative.

For more information: [Emerson.com/global](https://emerson.com/global)

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