

INSTALLATION MANUAL

# RMS ENTERPRISE TRANSPORTER V1.2.X (OR HIGHER)

FIRMWARE FILE TRANSFER UTILITY FOR RMS ENTERPRISE V4.6 (OR HIGHER)



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# **RMS Enterprise Transporter**

#### Overview

RMS Enterprise Transporter is a file transfer agent that allows the simultaneous transfer of firmware to multiple AMX devices on your system's network. This ensures that all devices are updated to the latest version at one time rather than making multiple trips to perform system upgrades. This tool also allows viewing of transfers to all devices in real time, so you can see at a glimpse the status of all file transfers, as well as the status of files that were transferred in previous sessions. Detailed log files are also available which allow viewing of historical data for each system or installation, whether it be one small room, or a campus wide system.

- RMS Transporter is installed separately from RMS Enterprise, and has it's own versioning (independent of RMS Enterprise). In order to use the Update Manager functionality in RMS, RMS Transporter must be installed according to the instructions in this guide.
- The RMS Transporter installation file (RMSTransporter.exe) is available to download from www.amx.com.

In the RMS Enterprise (v4.6 or higher) HTML interface, transporter functionality is presented in the Update Manager menu (FIG. 1):



FIG. 1 RMS Enterprise HTML UI (v4.6 or higher) menu bar

Note that the Update Manager menu is present in the menu bar, even if RMS Transporter has not been installed.

**NOTE:** To ensure optimal performance of the RMS Enterprise UI, the RMS Transporter application should not be installed on the Primary RMS Enterprise Server. Install the RMS Transporter application on a separate server.

### **RMS Enterprise System Requirements**

- RMS Enterprise Server: Version 4.6 or higher.
- RMS SDK v4.6 (or higher)
- Java SE: Java SE v8

**NOTE:** Use RMS SDK v4.6 (or higher) with RMS Server v4.6 (or higher). If an earlier version of the RMS SDK is used with RMS v4.6, a manual reboot of the target master or client gateway may be necessary after the firmware transfers are complete.

### **RMS Transporter Server Hardware Recommendations**

**NOTE:** The RMS Transporter application should not be installed on the primary RMS Enterprise Server, as this can lead to performance issues on the RMS Enterprise UI (including potentially sluggish response times during transfer operations). To ensure optimal performance, always install RMS Transporter on a separate dedicated server.

Verify that each server that will run RMS Transporter meets or exceeds the following minimum requirements (check the appropriate boxes below):

RMS Transporter Server Hardware Recommendations					
Does your RMS Tra	nsporter server meet the following minimum hardware recommendations?	Yes	No		
• Processor	Dual core Intel Xeon processor @ 2.67GHz (or equivalent)				
• Memory	4 GB				
• Display	1280 x 1024 resolution				
Hard Disk	12 GB available space for RMS Transporter application files.  Note: AMX firmware files will be stored locally on the Transporter. These files are automatically removed from the Transporter after 90 days since their last use.				
Yes to all	Please continue to the next step.				
No to any	You must obtain a server that meets these minimum requirements to install RMS Transporter.				

NOTE: RMS Transporter uses port 8081 for HTTP communications. Verify that port 8081 is open (see FIG. 2).

Do vou have a	compatible server OS installed?	Yes	No
	rosoft Server Operating Systems:		
<ul> <li>Microsoft W</li> </ul>	indows Server 2012: R2 (64-bit): Standard Edition		
<ul> <li>Microsoft W</li> </ul>	indows Server 2008 R2 (64-bit): Web Edition / Standard Edition / Enterprise Edition		
• The Window	s Desktop Experience feature may be required in order for the RMS Scheduling Configuration Tool to	work nrone	rlv
		work prope	ııy.
Yes		Work prope	119.
	Please continue to the next step.	work prope	
Yes No		Work prope	
No	Please continue to the next step.	Yes	No.
No Do you have a	Please continue to the next step.  You must obtain a compatible server OS to install RMS.		
No Do you have a	Please continue to the next step.  You must obtain a compatible server OS to install RMS.  administrative account to the server on which RMS Transporter will be installed?		
No Do you have a	Please continue to the next step.  You must obtain a compatible server OS to install RMS.  n administrative account to the server on which RMS Transporter will be installed?  preprise Troller is a system level application and requires administrative access to install and configure		

NOTE: RMS Transporter v1.2.x is only supported on 64-bit systems.

FIG. 2 illustrates the basic layout of an RMS Enterprise System that uses two RMS Transporter servers to update firmware files on AMX devices in the RMS system:

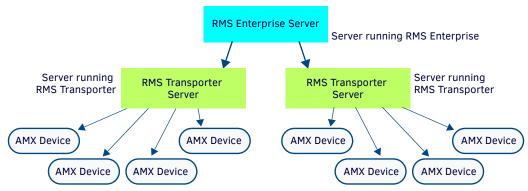


FIG. 2 RMS Transporter - basic system layout

As indicated, multiple RMS Transporter servers can communicate with the RMS Enterprise Server.

- Each RMS Transporter server communicates with the RMS Enterprise Server over Port 80.
- Each RMS Transporter Server communicates with AMX devices over port 1319.
- Each RMS Transporter Server communicates with AMX devices via HTTP over port **8081** (default). This port can be changed in the RMS Transporter Configuration tool (see page 10).

# **Installation and Configuration Steps - Overview**

- 1. **Gather RMS Server and RMS Transporter Server Information:** To install and configure RMS Update Manager, the following information will be required:
  - RMS Server URL, User Name and Password: the URL or IP address of the primary RMS (the server that runs RMS Enterprise), and the required login credentials (if applicable).
  - RMS Transporter Server URL, User Name and Password: the URL or IP address of the server that will run RMS Transporter, and the required login credentials (if applicable).
- 2. Install RMS Transporter: Refer to the Installing RMS Enterprise File Transporter section on page 6 for instructions.
- 3. Configure RMS Update Manager: Refer to the RMS Transporter Configuration section on page 9 for instructions.

#### **Upgrading From an Earlier Version of RMS Transporter**

The latest version of RMS Transporter (v1.2.x) requires an update to Java SE v8. For details on upgrading to RMS Transporter v1.2.x from an earlier version, refer to the *Upgrading File Transporter v1.x to v1.2.x* section on page 11.

# **Using RMS Update Manager and RMS Transporter**

For instructions on using RMS Update Manager (in conjunction with RMS Transporter) to manage firmware on AMX system devices, refer to the **RMS Update Manager** section of the *RMS Enterprise System Administrator's Manual*.

# Installing RMS Enterprise File Transporter

#### **Overview**

To add RMS Enterprise File Transporter functionality to RMS Enterprise, install the RMS Enterprise Transporter application (as described below), and then run the RMS Update Manager Configuration utility (see RMS Transporter Configuration on page 9).

- To ensure optimal performance of the RMS Enterprise UI, the RMS Transporter application should not be installed on the Primary RMS Enterprise Server. Install RMS Enterprise Transporter on a separate server.
- The RMS Enterprise Transporter installation file (RMSTransporter.exe) is available to download from www.amx.com.
- Verify that the server that will run RMS Enterprise Transporter meets or exceeds the minimum OS and hardware requirements on page 4.
- The latest version of RMS Transporter (v1.2.x) requires an update to Java SE v8. For details on upgrading to RMS Transporter v1.2.x from an earlier version, refer to the *Upgrading File Transporter v1.x to v1.2.x* section on page 11.

#### **Before You Start**

- Verify that the Primary RMS Server is running.
- Have the IP Address and login credentials for the RMS Enterprise Server.
- Have the IP Address and login credentials for the RMS Enterprise Transport Server.

### **Installing RMS Transporter**

 Double-click the RMSTransporter.exe installation file to begin the installation. This opens the Welcome to the RMS Enterprise Transporter Setup Wizard screen (FIG. 3):



FIG. 3 Welcome to the RMS Enterprise Transporter Setup Wizard screen

2. Click Next to proceed to the End-User License Agreement screen (FIG. 4):



FIG. 4 End User License Agreement

3. Review the End-User License Agreement, and click I accept the terms in the license agreement to enable the Next button. Click Next to proceed to the Select Installation Folder screen (FIG. 5):

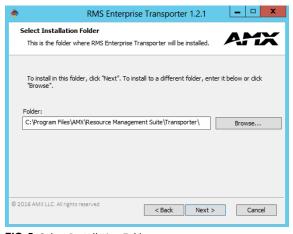


FIG. 5 Select Installation Folder

The default target directory for the Interface installation is indicated in the text field on this screen:

C:\Program Files\AMX\Resource Management Suite\Transporter\

4. Click Next to proceed to the Ready To Install screen (FIG. 6):



FIG. 6 Ready To Install screen

Click Install to begin installing RMS Enterprise Transporter to the target directory on the specified server. Installation progress is indicated in the Installing RMS Enterprise Transporter screen (FIG. 7):

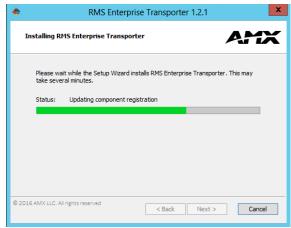


FIG. 7 Installing RMS Enterprise Transporter

- If you wish to review or change any of your installation settings, click Back.
- Click Cancel to exit the wizard.
- 6. When the installation is complete, the Completed the RMS Enterprise Transporter Setup Wizard screen is displayed (FIG. 8):



FIG. 8 Completed the RMS Enterprise Transporter Setup Wizard screen

7. Click **Finish** to close the *RMS Enterprise Transporter Setup Wizard*.

At this point, RMS Enterprise Transporter application and the *RMS Update Manager Configuration* utility are both installed. The next step is to configure the RMS Enterprise Transporter tool. This process will invoke the *RMS Update Manager Configuration* utility, as described in the following section.

# **RMS Transporter Configuration**

#### **Overview**

At the end of the *RMS Enterprise Transporter Setup Wizard*, click **Finish** to launch the *RMS Transporter Configuration* utility. This utility allows you to configure the RMS Enterprise Transporter interface to communicate with RMS Enterprise. The initial view is of the *RMS Server* tab (FIG. 9):

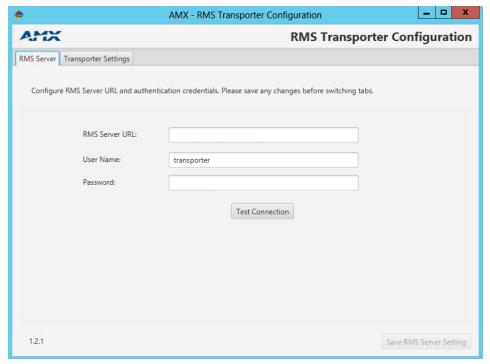


FIG. 9 RMS Transporter Configuration - RMS Server tab

1. Enter the appropriate connection information for your RMS Enterprise server:

RMS Transporter Configuration - RMS Server tab options			
RMS Server URL:	Enter the URL of the RMS Server that will run RMS Enterprise Transporter.  URL must be in the form: http:// <server>:<port>/rms  If the port is 80, then it can be omitted.</port></server>		
User Name:	Enter the user name as required by the server (default = "transporter")		
Password:	Enter the password as required by the server (default = "password")		

NOTE: RMS Transporter uses port 80 to communicate with the RMS Server, and uses port 1319 to communicate with system devices.

- Click the Test Connection button to verify this information. The program will indicate that the connection was successful or not. If the connection attempt fails, re-enter the server information. You cannot proceed until you have successfully connected to the server.
- 3. Click **Save RMS Server Setting** to save these settings, register the RMS Enterprise Transporter Interface with the server, and enable the *File Transporter Settings* tab (see FIG. 11 on page 10):

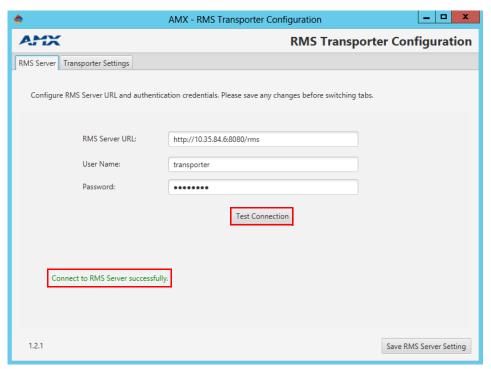


FIG. 10 RMS Transporter Configuration - RMS Server tab (Connected)

4. Open the Transporter Settings tab (FIG. 11):

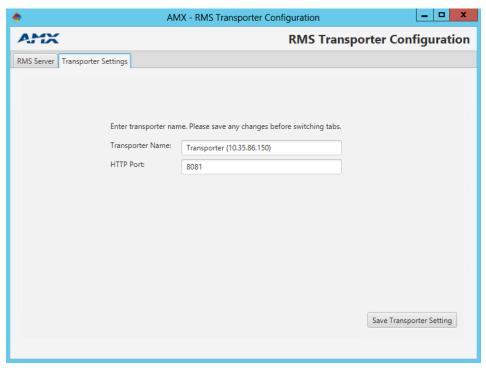


FIG. 11 RMS Transporter Configuration - Transporter Settings tab

- 5. In the Transporter Name field, enter a unique, friendly name for the RMS Enterprise Transporter.
  - **NOTE:** Transporter names must be unique if an existing transporter name is entered, an error is invoked. In this event, re-name the Transporter with a unique name and re-save.
- 6. By default, each RMS Transporter Server communicates with AMX devices via HTTP over port **8081**. This port assignment can be changed if necessary.
- 7. Click Save Transporter Setting to save changes. The dialog will indicate that the setting has been saved.
- Close the RMS File Transfer Configuration utility.

# **Upgrading File Transporter v1.x to v1.2.x**

#### Overview

If you have upgraded your RMS Server to v4.6, it is necessary to also upgrade RMS Enterprise File Transporter to v1.2.x, as described in this section.

NOTE: For instructions on on upgrading RMS Enterprise Server to v4.6, refer to the RMS Enterprise Installation Manual.

### 1) Stop the RMS Enterprise Transporter Process

The first step in upgrading to RMS Enterprise Transporter v1.2.x is to stop the current (v1.x) RMS Enterprise Transporter process:

1. Open Windows Computer Management (Start > Administrative Tools > Computer Management):

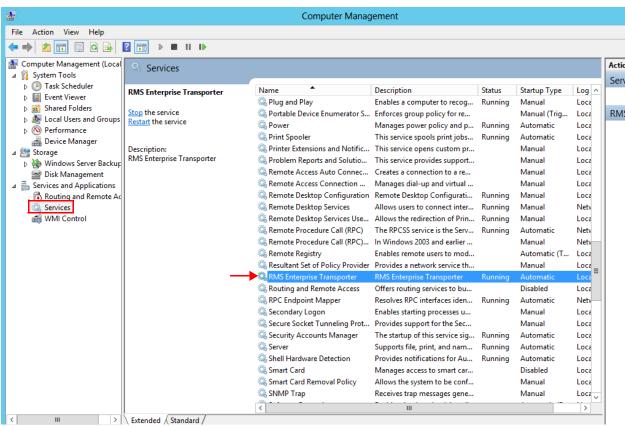


FIG. 12 Windows Computer Management - RMS Enterprise Transporter service

- 2. In the Computer Management navigation bar, select Services and Applications > Services.
- 3. In the Services window, select the RMS Enterprise Transporter service.
- 4. Right-click and select **Stop** (FIG. 13):

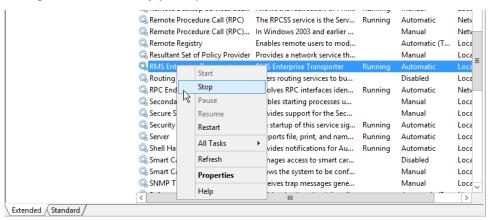


FIG. 13 RMS Enterprise Transporter service Context Menu

# 2) Uninstall Java 7

- 1. Open Windows Control Panel (Start > Control Panel).
- Select Programs and Features.
- 3. In the Uninstall or change a program window, select Java 7, and click Uninstall (FIG. 14):

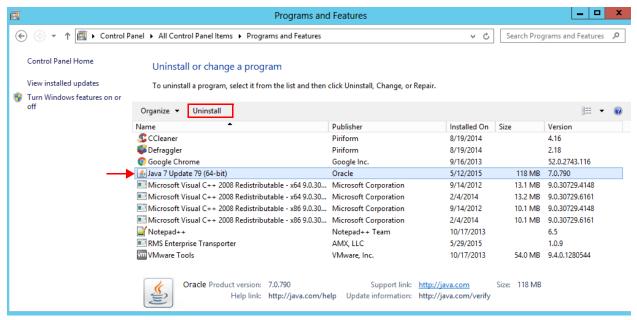


FIG. 14 Programs and Features > Uninstall or change a program (Java 7 selected to uninstall)

4. The program will prompt you to verify this action - click Yes to proceed.

# 3) Install Java SE8 (Windows 64 bit version)

Java SE8 (Standard Edition version 8) installation files are available to download from www.oracle.com.

**NOTE:** The minimum requirement for Java SE8 is the JRE (Java Runtime Environment). RMS Enterprise Transporter will also work with the JDK (Java Development Kit), since it includes the JRE.

Download and launch the Java SE8 JRE installer. FIG. 15 shows the Java SE8 installer Welcome Screen.



FIG. 15 Java SE8 installer - Welcome screen

- 2. Click Install to begin the installation. Progress is indicated in the Installing Java dialog.
- 3. When complete, close the Java SE8 installer (FIG. 16).



FIG. 16 Java SE8 installer

#### **Disabling Auto-Update For Java**

Because RMS Enterprise Transporter requires a specific version of Java, it is important that Java's auto-update feature is disabled, to avoid compatibility issues in the future:

1. On the main Control Panel Page, select Java. This opens the Java Control Panel (FIG. 17):

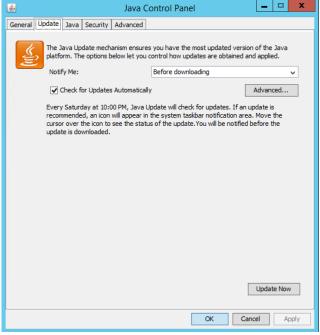


FIG. 17 Java Control Panel

- 2. Un-check the Check for Updates Automatically option.
- 3. Java will prompt you to verify this action click **Never Check** to proceed (FIG. 18):



FIG. 18 Java Update - Warning

4. Click **OK** to close this dialog.

## 5) Upgrade RMS Transporter

With Java v8 installed and configured, the system is ready to install RMS Enterprise Transporter v1.2.x. Before you start:

- · Verify that the Primary RMS Server is running.
- Have the IP Address and login credentials for the RMS Enterprise Server.
- Have the IP Address and login credentials for the RMS Enterprise Transport Server.

Double-click the *RMSTransporter.exe* installation file to begin the installation. This process is described in the *Installing RMS Enterprise File Transporter* section on page 6.

## 6) Configure RMS Transporter

When the **Finish** button is clicked in the last dialog of the RMS Enterprise Transporter Setup Wizard, the *RMS Update Manager Configuration* utility is launched automatically.

When upgrading from an earlier version of RMS Transporter, the configuration settings should be retained. However, it is recommended that you review the RMS Configuration settings.

- 1. Verify that the information in both the RMS Server and Transporter Settings tabs is correct.
- 2. Click Save Transporter Setting to save changes. The dialog will indicate that the setting has been saved.
- 3. Close the RMS File Transfer Configuration utility.

Refer to the RMS Transporter Configuration section on page 9 for details on using the RMS Transporter Configuration tool.

