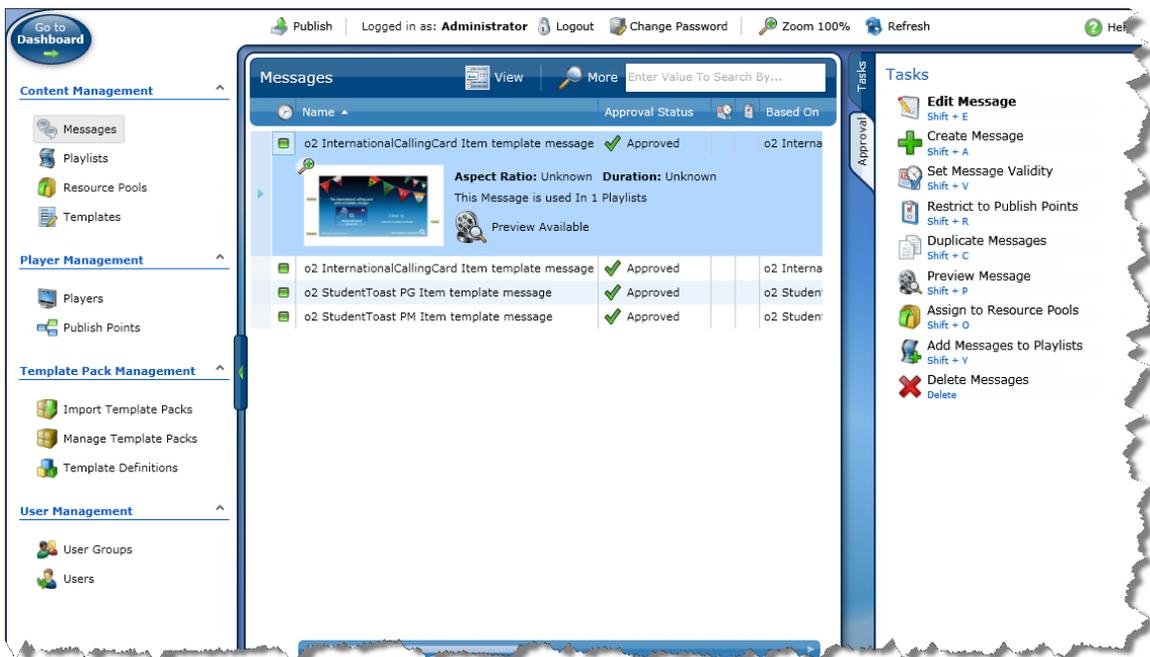




INSTALLATION GUIDE

# COMPOSER 5.6 SERVER EDITION

DIGITAL SIGNAGE



## IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.



12. USE ONLY with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. DO NOT expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
18. DO NOT overload wall outlets or extension cords beyond their rated capacity as this can cause electric shock or fire.



The exclamation point, within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.



ESD Warning: The icon to the left indicates text regarding potential danger associated with the discharge of static electricity from an outside source (such as human hands) into an integrated circuit, often resulting in damage to the circuit.

- WARNING:** To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.
- WARNING:** No naked flame sources - such as candles - should be placed on the product.
- WARNING:** Equipment shall be connected to a MAINS socket outlet with a protective earthing connection.
- WARNING:** To reduce the risk of electric shock, grounding of the center pin of this plug must be maintained.

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The AMX Warranty and Return Policy and related documents can be viewed/downloaded at [www.amx.com](http://www.amx.com).

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# Introduction

## Overview

This document explains how to install the Composer Server Suite.

**NOTE:** *Configuring Composer Server is quite technical and should only be attempted by a qualified systems administrator.*

Composer Server Suite can be installed on one or more machines for scenarios where more than one machine is needed, such as when one does not have a recent graphics card (specifically one that supports Pixel Shader 2.0).

The Installer can also be used to update a Composer 4 or Composer 5 installation. It will migrate and update the Composer database so no data will be lost. AMX uses Microsoft's IIS web server to its advantage of greater scalability, better security and the ability to integrate Composer with an existing IIS infrastructure. Composer 5.6 Installer installs and configures IIS automatically.

If planning to use Composer with a remote SQL Server database, there are number of other extra steps that must be carried out which are described in *Using a Remote SQL Server Database* on page 9.

**NOTE:** *Allow World Wide Web Services (HTTP) via the Windows Firewall Allow Programs.*

### Upgrading Composer 4.x

If upgrading from Composer 4.x, it must first be upgraded to Composer 5.4. Refer to *Composer 5.4 Installation Guide* on <http://www.amx.com/products>. Once Composer 5.4 is installed, refer to *Upgrade Procedure* on page 23.

### Upgrading Composer 5.x to 5.6

If upgrading from Composer 5.x to Composer 5.6, refer to section *Upgrade Procedure* on page 23. For a condensed step-by-step procedure, refer to the *Composer 5.x to 5.6 Upgrade Guide* on <http://www.amx.com>.

### Upgrading Composer 5.6.x to Future Releases

Going forward, performing an upgrade from 5.6.x to 5.6.y (where  $y > x$ ) is as simple as running the installer similar to a fresh/clean install. Refer to *Installation Procedure* on page 11.

### New Installations

If installing Composer for the first time on a new system, go directly to *Installation Procedure* on page 11.

### Components of the Composer Server Suite

The Composer Server Suite contains the following components:

Composer Server Suite Components	
Component	Description
Composer Server	The core component which includes the main server application, and an SQL server database
Post Office	Post Office transfers messages and media data such as video and image files from the Composer application to Inspired Signage Players for display.
Previewer	This component is used to preview how a message will look on screen. The Previewer creates preview videos on behalf of Composer.
Babel Server (optional component)	Babel is an application which fetches data from different data sources such as databases or XML files and uses this data to create messages for display on Inspired Signage Players. Babel needs to communicate with Post Office and Composer

## Composer Requirements

This section of the installation guide discusses the hardware and operating system requirements to run the Composer Server Suite. Two options of Composer Server are available depending on the license purchased as follows:

- 10 user license (allows a maximum of ten concurrent users)
- 50 user license (allows a maximum of fifty concurrent users)

The machine hosting the Composer Server application (The Composer Server PC) has different minimum hardware specification requirements depending on the license used. These requirements are detailed below:

Composer Server - 10 User License - Minimum Specification	
Component	Requirement
OS	Windows 2008 32/64 bit, Windows 7 32/64 bit
Memory	1 GB
Processor	2GHz Core Duo or equivalent
Hard Drive Space Available	Depends on the number of videos you plan to upload as each video you upload is copied to a media file directory. If you do not plan to upload and display videos then you will need a minimum of 5 GB of disk space. If you plan to upload any videos then you will need 5 GB+ the combined size of all the videos you plan to upload.

Composer Server - 50 User License - Minimum Specification	
Component	Requirement
OS	Windows 2008 32/64 bit, Windows 7 32/64 bit
Memory	1 GB
Processor	IntelE5540
Hard Drive Space Available	Depends on the number of videos you plan to upload as each video you upload is copied to a media file directory. If you do not plan to upload and display videos then you will need a minimum of 5 GB of disk space. If you plan to upload any videos then you will need 5 GB+ the combined size of all the videos you plan to upload.

Composer Server - 10 User License - Preferred Specification	
Component	Requirement
OS	Windows 2008 32/64 bit, Windows 7 32/64 bit
Memory	4 GB
Processor	Dual core 2.5 Hz
Hard Drive Space Available	20 GB

## Client PC Requirements

There are certain software and hardware requirements for a client PC to work with the server version of Composer. These requirements are discussed in the following sections.

### Software Requirements

The software requirements to use Composer are as follows:

- A supported web browser. The following table lists the operating systems/hardware platform and web browsers supported, as taken from Microsoft's web site:
- The Silverlight 4.0 plugin for your web browser - users are prompted to install Silverlight when they first access the Composer Server web page.

Supported Web Browsers by Operating System				
Operating System	Internet Explorer 8+	Firefox (latest)	Chrome (latest)	Safari (latest)
Windows 7	Yes	Yes	Yes	
Windows 8.1	Yes	Yes	Yes	
Mac OS X Snow Leopard (10.6)				Yes
Mac OS X Mavericks (10.9)				Yes

## Hardware Requirements

The minimum client hardware requirements are shown in the table below:

Minimum Hardware Requirements for a Client PC	
Components	Requirement
Personal Computer running Windows	x86 or x64 500-megahertz (MHz) or higher processor with 128-megabytes (MB) of RAM
Mac OS 10.4.8+ (PowerPC)	PowerPC G4 800-MHz or higher processor with 128-MB of RAM
Mac OS 10.4.8+ (Intelbased)	Intel Core Duo 1.83-gigahertz (GHz) or higher processor with 128-MB of RAM

## Inspired Signage Networking

This section describes the network ports used by the Inspired Signage Solution.

The following table lists the ports used by Composer Server:

Composer Server Ports		
Port	Port Type (Static/Configurable)	Description
1433	Configurable See MS SQL Server documentation	Composer uses this port to connect to SQL Server (note SQL Server can be installed on a remote machine)
21	Static	FTP port, used for outgoing publish operations to Players\

**NOTE:** *Web.config* refers to the file `C:\Program Files\AMX\Inspired Signage\Composer Server\Default\\Web\Web.config`

The following table lists the ports used by the Player component.

Player Ports		
Port	Port Type	Description
21	Static	Ftp used for Publishing
80	Static	Used for Player web configuration tool
5900	Static	VNC
25050	Static	Player port used for remote screenshot,getting/setting public variables for control over displayed content,Player status monitor service
25002	Static	Control devices attached to Player serial port

# Prerequisites

## Overview

Before installing Composer Server Suite it is advised to ensure that all of the machines being used have up-to-date software. Go to <http://www.microsoft.com> and install the high priority updates.

**NOTE:** *Anti-virus software will need to be disabled and re-enabled once installation is complete.*

The Previous WIX installer needs to be removed, if applicable. See *Composer 5.x Uninstall Instructions:* on page 23 for details.

Next, you must ensure that the following are installed:

- *Silverlight* (version 4.0 or higher) on any client PCs and the PC hosting Composer Server.  
<http://www.microsoft.com/getsilverlight/get-started/install/default.aspx>
- *Microsoft Installer* (version 4.5 or higher) on all PCs hosting the Composer Server Suite. Note that this is pre installed on Windows 7.  
<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=8483>
- *Microsoft .NET Framework* (4.0 or higher) on all PCs hosting the Composer Server Suite. You can install this component at the same time as installing SQL Server Express 2008 R2 Service Pack 2 using the Microsoft Web Platform Installer, see the next section of this guide for details.  
<http://www.microsoft.com/net>
- *Microsoft SQL Server* (Express or a Full Instance, either locally or on a remote machine, 2005 or higher). Refer to *Installing SQL Server 2008 Express* on page 6 to install SQL Server Express 2008 R2 Service Pack 2.

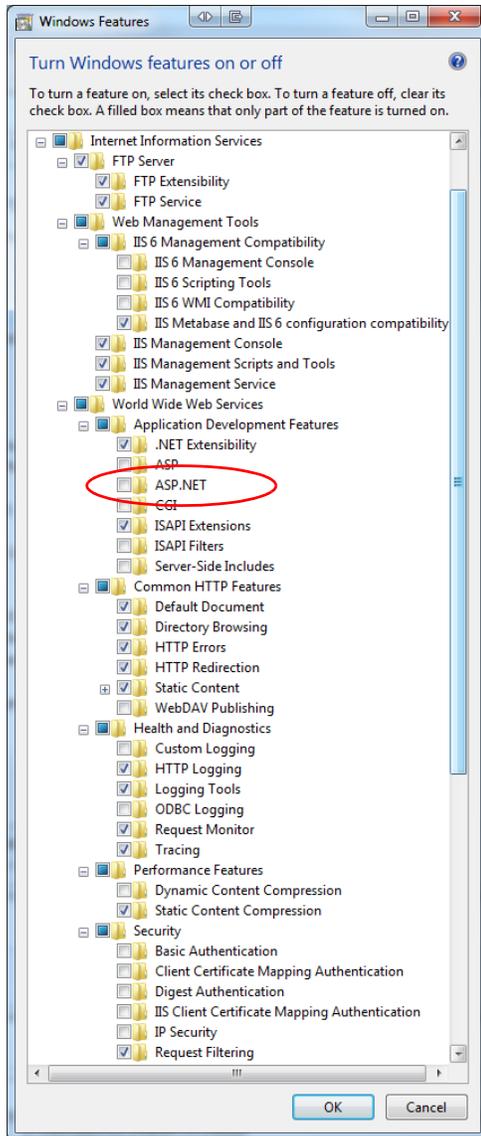
**NOTE:** *SQL Server Express 2008 R2 Service Pack 2 is preferred.*

- WS-Management 1.1 or higher on the machine hosting SQL Server 2008/2005. Note this is preinstalled on Windows 7.  
<http://www.microsoft.com/download/en/details.aspx?id=21900>
- Windows Powershell 1.0 or higher on the machine hosting SQL Server 2008/2005. Note this is preinstalled on Windows 7.  
<http://blogs.msdn.com/b/powershell/archive/2008/12/30/download-windows-powershell.aspx>  
This component can be installed at the same time as installing SQL Server Express 2008 R2 Service Pack 2 using the Microsoft Web Platform Installer. See *Installing SQL Server 2008 Express* on page 6 for details.
- Quicktime and the MPEG 2 codec need to be installed on the machine hosting the Preview application along with any other video codecs you wish to use otherwise the preview feature will not work with files of these types. Note that the Microsoft DTV-DVD Video Decoder provided in Windows Vista and Windows 7, supports MPEG-2 Playback.
- Internet Information Services (IIS) 6.0
- Registered with .NET 4.0 (If installed and enabled before .NET 4.0 this happens automatically).

**NOTE:** *If for some reason .NET was installed before IIS, the command prompt must be opened as administrator and run: "ASPNET\_REGIIS.EXE -i" from the Command Prompt with context focused at:*

**C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319** after IIS has been installed.

## Process for IIS V7.0 and Windows Server 2008



Install IIS as follows:

1. Click **Start > All Programs > Administrative Tools > Server Manager**.
2. In the *Server Manager* window, scroll down to *Roles Summary*, and then click **Add Roles**. The *Add Roles Wizard* will start with a *Before You Begin* page.
3. Check that your installation complies with these prerequisites.
4. Select **Web Server (IIS)** on the *Select Server Roles* page. An introductory page will open with links for further information.
5. In the *Select Role Services* window, set the **ASP.NET** checkbox.
6. The *Add Roles Wizard* will popup, click **Add Required Role Services**.
7. Click **Next** to Continue.
8. Click **Install** to carry out the installation.

## Register IIS

Register IIS as follows:

1. Ensure that Microsoft.NET 4 or later version has been installed.
2. Run the following command from the command line: `ASPNET_REGIIS.EXE -i` located in `C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319` (note you will need to modify the `v4.0.30319` part to correspond to the version of .NET you have installed).

# Installing SQL Server 2008 Express

## Overview

This section explains how to install SQL Server 2008 Express for use with Composer.

**NOTE:** It is not necessary to install SQL Server 2008 Express if an SQL Server 2005 or 2008 is already installed. Note also that a 64 bit version of SQL Server must be installed if using a 64 bit operating system.

## Installing SQL Server Express using the Web Platform Installer

This subsection explains how to Install SQL Server Express 2008 R2 Service Pack 2 and any other Composer pre-requisites using the Microsoft Web Platform Installer.

Note that Microsoft may change the web platform installer and its user interface so the exact process may differ slightly from the explanation below. The current steps are as follows:

1. Go to the Microsoft Website <http://www.microsoft.com/web/downloads/platform.aspx> and click the *Download it now* button to download the web platform installer. Run the installer once the download finish.
2. When the Web Platform Installer starts, click *Products* in the bar at the top of the screen.
3. Click *All* in the left hand panel.
4. Search for and add the following products: Microsoft.Net Framework 4 with SP1 or later, Windows Powershell 2.0 or later, SQL Server Express 2008 R2 Service Pack 2, and SSQL Server 2008 R2 Management Studio Express with SP1.

**NOTE:** Some of these items may not be present in the list if they have already been installed. Some items are installed by default on some versions of Windows.

5. Search for and add Internet Information Services (IIS) to install the IIS Webserver. Composer needs a web server to function, IIS offers greater scalability and security, however, IIS does require manual configuration.

**NOTE:** IIS may not appear in the list of products if it is already installed. IIS is installed by default on some versions of Windows.

6. Once all of the products are selected, click **Install**.
7. When asked to select the authentication mode, select Windows Integrated Authentication and click **Continue** to start the installation. You may be warned of compatibility issues at the start of the installation, If this happens, use Windows Update to download and install any updates for SQL Server Express *after the installation has finished*.

When SQL Server Installer starts you are presented with a number of options, proceeds as follows:

1. Select the **Installation** page in the left menu, then select **New SQL Server stand alone install** to start the installation (FIG. 1)



**FIG. 1** Select New SQL Server Stand-alone Install

2. Select the **default settings** in all pages except the **Feature Selection**, **Server Configuration**, and **Database Engine Configuration** pages. See below for more details. In the **Feature Selection** page select all available options (FIG. 2).

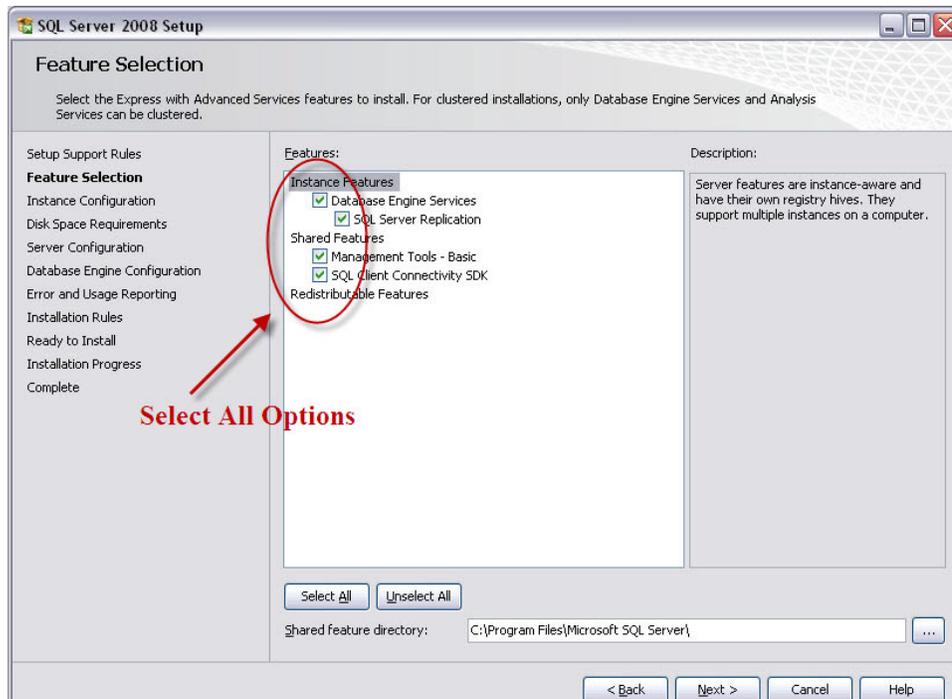


FIG. 2 Feature Selections Window

3. Under the **Server Configuration** page, select the Network Service account for the SQL Server Database Engine. Click the drop down menu under **Account Name** and select **NETWORK SERVICE** (FIG. 3).

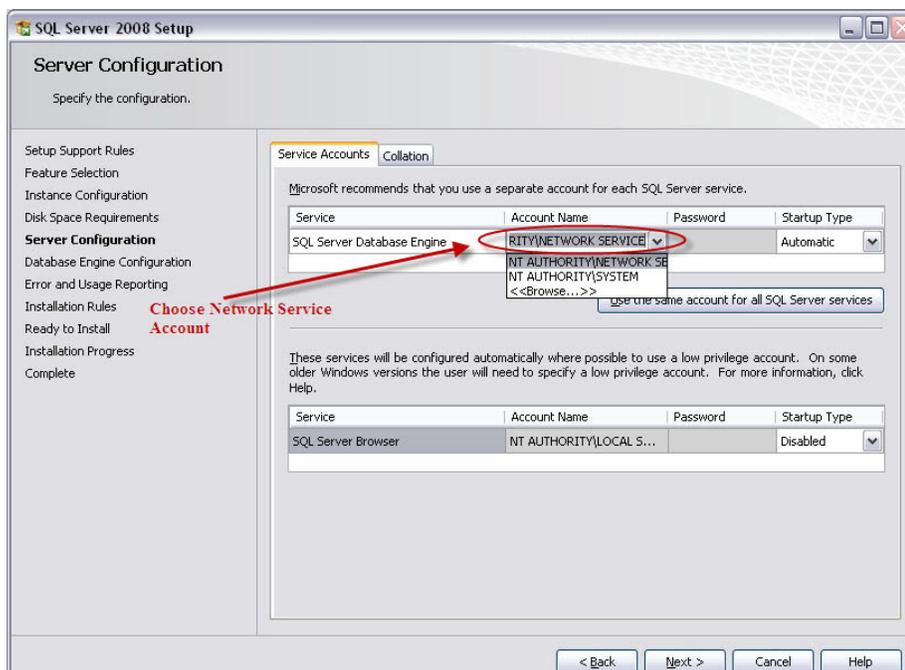
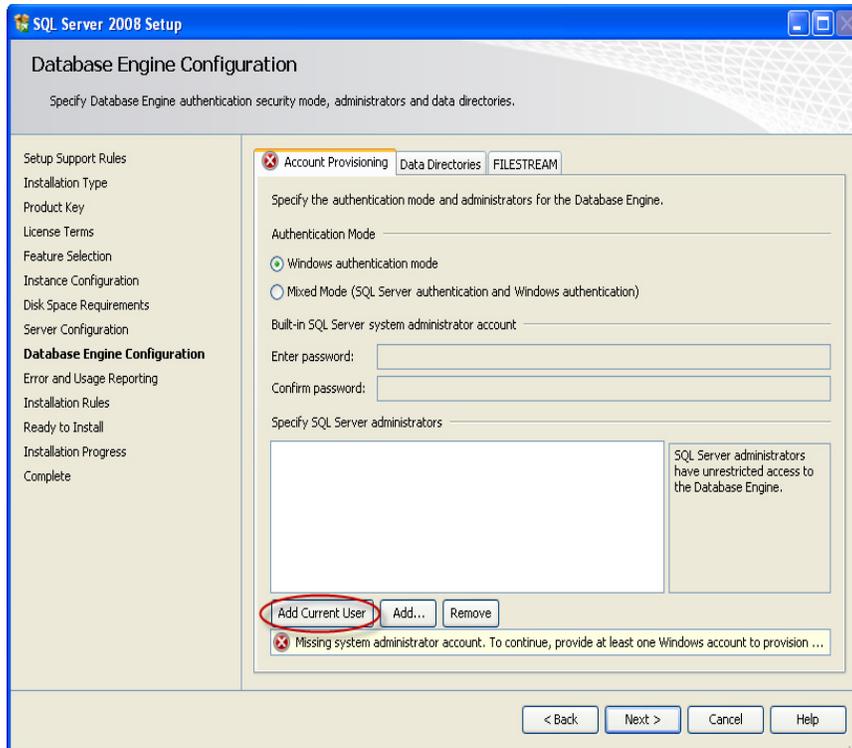


FIG. 3 Network Service Selection

4. In the **Database Engine Configuration** page select **Add Current User** (FIG. 4).



**FIG. 4** Add Current User Selection

# Using a Remote SQL Server Database

## Overview

If planning to use Composer with a remote SQL Server database (if the SQL Server database is on another machine), then the two databases and their log files must be copied and attached onto the remote machine hosting SQL Server. The process is as follows:

1. Locate the folder *Databases* in the Composer zip file downloaded from the AMX website.
2. Copy all the files in this folder to a folder *ComposerDatabases* on the machine hosting SQL Server.
3. Select the files in the Composer database and ensure that they are not set to be read only.
4. Go back to SQL Server Management Console.
5. Right click on **Databases**.
6. Select **Attach** from the drop down menu.
7. Click and attach and navigate to the *ComposerDatabases* directory. Select the file **AMXComposerDatabase.mdf**.
8. Click **Add** again and select **PostOfficeServerDB.mdf** from the same directory.
9. Click **OK** to attach these databases.

Next, create a SQL Server database login corresponding to the Windows user account being installed and run Composer under. Check that the machine hosting SQL Server and the machine that will host Composer can access each other over the network. Login to the remote SQL Server database using SQL Server Management Console and proceed as follows:

1. Connect to the appropriate database using the database server name and instance name in the format **<Server Name>\<Instance Name>**
2. Expand Security.
3. Right-click on **Logins** and select **Create Login**.
4. Check Windows authentication is set.
5. Click the **Search** button.
6. Click **Location**.
7. Enter the windows user Composer will run under in the field beneath *Location* in the format **domain name\username**
8. Click **Check Names** to find this user.
9. Click **OK** to continue.
10. Check the default database drop down is set to *AMXComposer*.
11. Select the **Server Roles** page in the left hand pane.
12. Set the **dbcreator** role. All other roles should be cleared.
13. Select the **User Mapping** pane.
14. Check the *AMXComposerDatabase* and *PostOfficeServer* databases are mapped to this login.
15. Select **AMXComposerDatabase** and give the user the roles: *db\_datareader, db\_datawriter, db\_ddladmin, and public*.
16. Select the **PostOfficeServer** database and give the user the roles *db\_datareader, db\_datawriter, and public*.
17. Click **OK** to finish creating the login.

## Issues with Installs

Some issues have been seen with remote database connections with the application pool that has been configured in IIS to run Composer and with the services:

- AMX IS Composer Content Publisher Consumer Guardian
- AMX IS Post Office Worker Service

For each of the services above, you will need go to the services console (services.msc) and do the following:

1. Double click the service and go the 'log on' tab
2. Check the 'This account' radio button.

Enter domain\username and password. As defined above, an SQL server database login corresponding to a Windows user account will have the format for the username as:

- domain\username
3. Save changes and restart the services.

If there is an issue after these changes (there should not be), note that there are logs for the post office service and the publisher guardian service that will give more information on the error.

For the Application pool, do the following:

1. Open up the IIS Manager
2. Click the IIS instance for the machine in the connections page
3. Click the Application Pools branch
4. Highlight the composer application pool and in the actions page, click Advanced Settings...
5. In the dialog, under process Model click identity and then click the button ...
6. Select 'Custom Account' radio button
7. Select the 'Set' button
8. Enter username under the format domain\username
9. Enter password (and confirmed password) and then press OK to save changes

# Installation Procedure

## Overview

This procedure is intended to walk the reader through a completely new installation of the Composer software on a clean system. If a previous version of Composer has been installed on this system, go to *Upgrade Procedure* on page 23. Upgrading the system requires additional steps such as Backing Up Composer and WIX Removal that are not covered here.

## Technical Note - SQL Server Database

Composer stores its application data and settings in an SQL Server database. Composer uses a database connection string to connect to the database. Rather than use a model where you have to provide login information, a better security model is to use integrated security (using windows authentication) instead of putting SQL server usernames and passwords in the connection string.

## Composer 5.6 Installation Process

With all of the prerequisites in place (*Prerequisites* on page 4), and the setup executable on the machine intended for Composer, follow the steps in the following walk-through. If all of the prerequisites are not installed, the installer will either provide additional dialogs to install them or simply not launch. For example if either .NET or Silverlight is not installed a dialog will be displayed prompting you to install them. If IIS is not installed and enabled, then the installer will fail to launch and an error dialog will pop up saying IIS is needed.

1. Right click and launch ComposerSetup\_v5.6.\*.exe by selecting **Run as administrator** (FIG. 5).

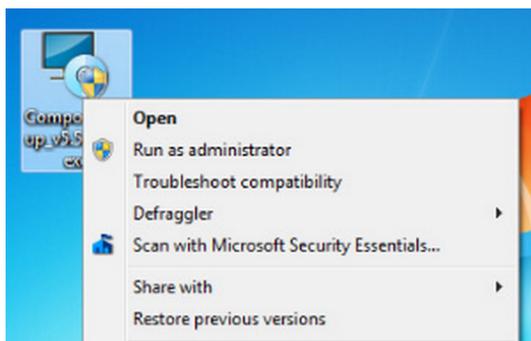


FIG. 5 Microsoft Run Menu

2. Click **Next** as prompted (FIG. 6).



FIG. 6 AMX Composer Setup - Welcome Screen

3. If the following dialog appears indicating a Composer installation predating Composer 5.6 was found on the system (FIG. 7), follow the upgrade path and not the installation path. Refer to *Upgrade Procedure* on page 23.



FIG. 7 Previous Composer Version Found - Error Message

4. FIG. 8 is an example of the Windows Navigation Bar as it looks with the installer running. Throughout this walk-through, similar images will appear to help aid the user installing Composer. At certain times during the installation process, additional dialogs will launch but not always on top of the main installation window. If the icon for the new window is seen in the Navigation Bar, and it has not been launched on top of the main window, please select the additional dialog to continue.



FIG. 8 Windows Navigation Bar with Installer Running

5. Review and accept the *AMX License Agreement*. Click **Next** to continue (FIG. 9).

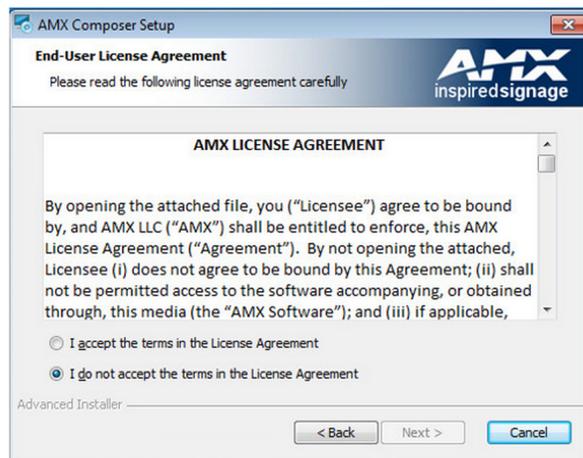


FIG. 9 AMX License Agreement

6. Define the database connection strings for Composer and Post Office (FIG. 10). Click **Next** to test the strings for validity.

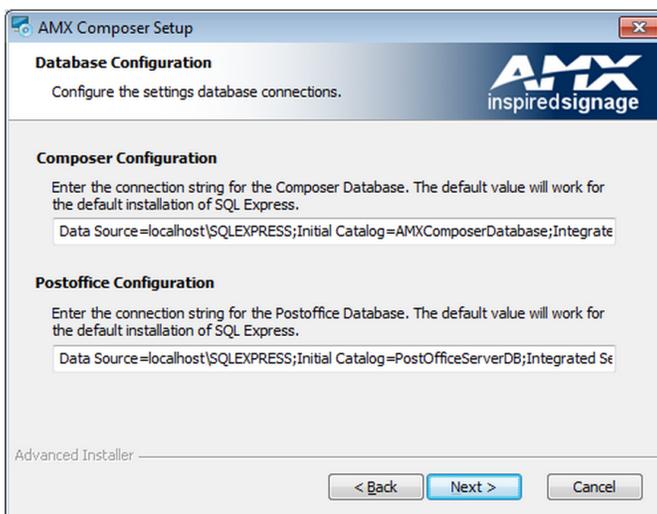


FIG. 10 AMX Composer Setup

7. FIG. 11 shows that one or both of the Database Configuration connection strings failed validation. Click **Back** to resolve the problem.

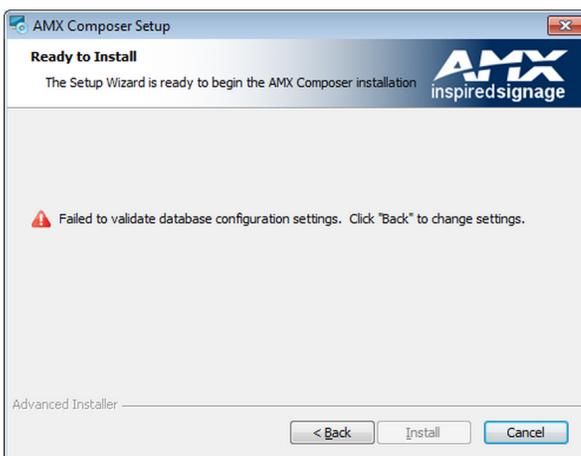


FIG. 11 Composer Validation Error

8. The *Database Configuration* dialog identifies which Database Connection String failed validation. In the example provided in FIG. 12, both did. Correct them and click **Next** to validate again. This process will continue until a good definition has been entered.

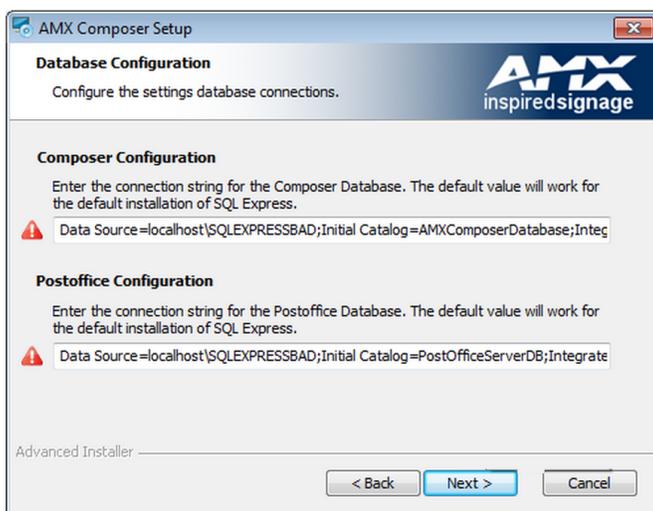


FIG. 12 Database Configuration

9. Once the Database Configuration passes validation, click **Install** to continue with the installation of Composer. The progress of the installation will be indicated in the Installing AMX Composer dialog.

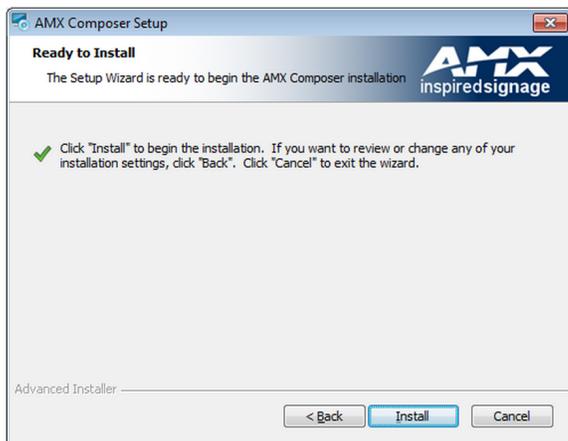


FIG. 13 Ready to Install

10. As the installer reaches the final installation sequence, it will hold on this status label (FIG. 14). Wait patiently, as additional installer tasks are being performed.

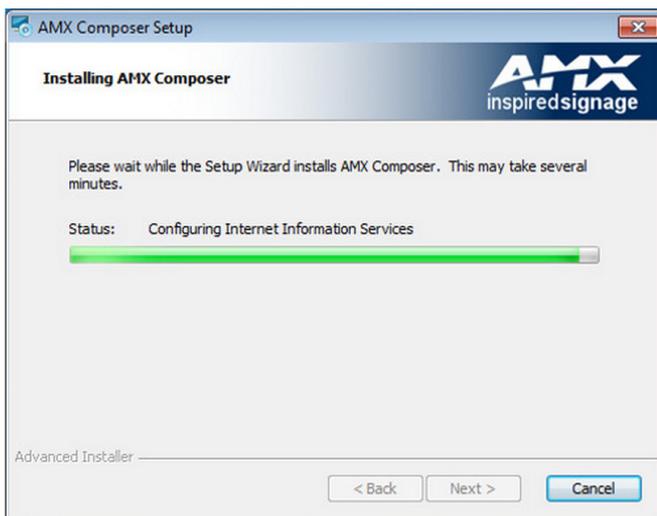


FIG. 14 Installing Composer

11. This pop up window is the first in a series of final installer tasks that will be performed (FIG. 15). The main sequence has completed and the installer is completing final configurations.

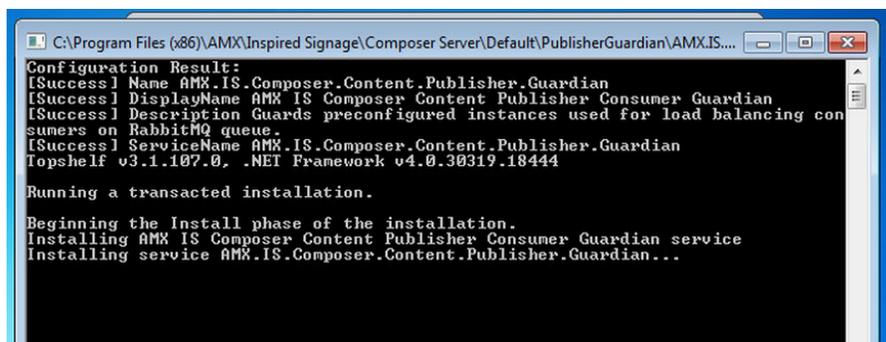


FIG. 15 Configuration Results

## Erland Installation

Composer's publishing mechanism has a dependency on RabbitMQ Server. RabbitMQ has a dependency on the Erlang Language Pack. In order to complete the installation with a functioning Composer, these two dependencies will now be automatically installed.

1. Ensure that everything is selected as shown in FIG. 16 before proceeding with the Erlang installation. If Erlang is already installed on this machine, ignore this section and skip to *RabbitMQ Installation* on page 19.

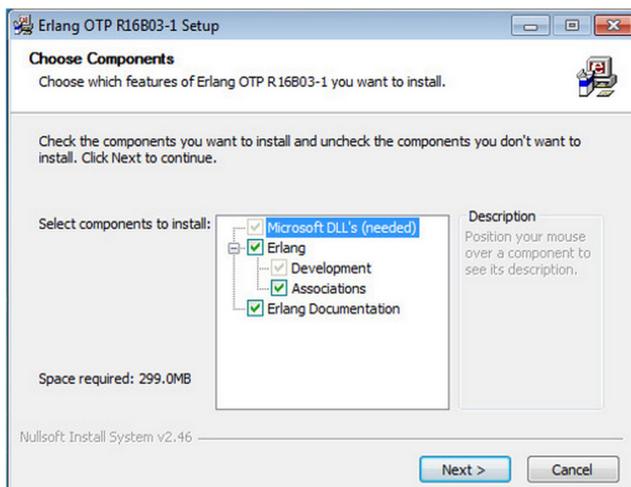


FIG. 16 Choose Components

2. FIG. 17 is an example of what the Windows Navigation Bar will look like while installing Erlang. If Erlang does not pop up in front of the Composer window, select it from the Navigation Bar.



FIG. 17 Windows Navigation Bar

3. In the *Choose Install Location* dialog, set the *Destination Folder* for this installation. In most cases, the default target directory (**C:\Program Files (x86)\er15.10.4**) should be used.

**NOTE:** Remove the bold (x86) text in a directory path if on a 32 bit machine.

4. Erlang requests *Choose Start Menu Folder* first (FIG. 18). In most cases, the default target directory (**Erlang OTP R16B03-1**) should be used.

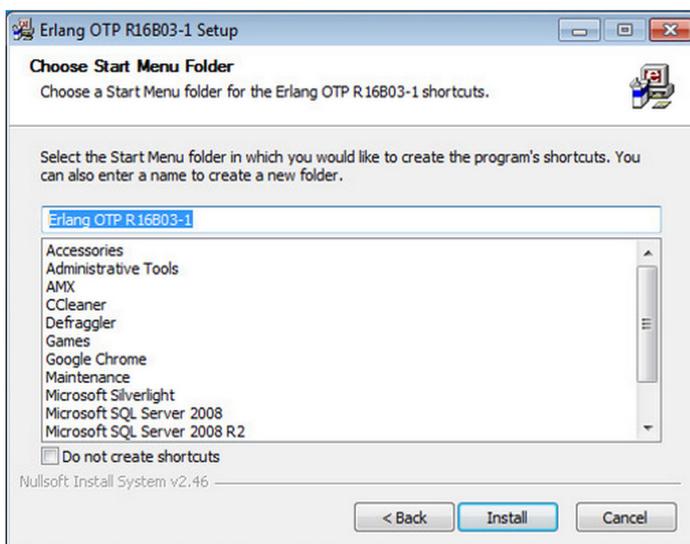


FIG. 18 Choose Start Menu Folder

- As Erlang installs, it checks to see if C++ libraries, that it needs to be able to run, are in place (FIG. 19). If so, the system will go directly to Step 9.

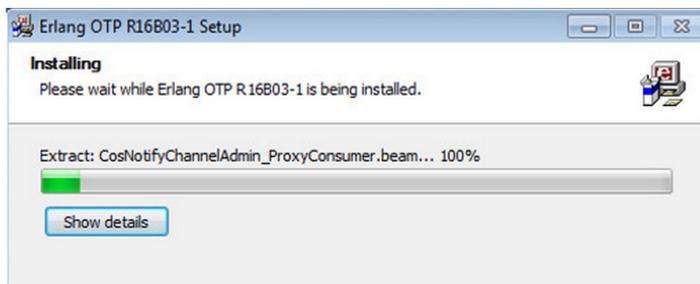


FIG. 19 Erlang Installing

- The *Microsoft Visual C++ 2010 x86 Redistributable Setup* will launch if it is not already installed. This is an Erlang dependency. In order to proceed, click the *check box* to accept the license terms and select **Install** (FIG. 20).

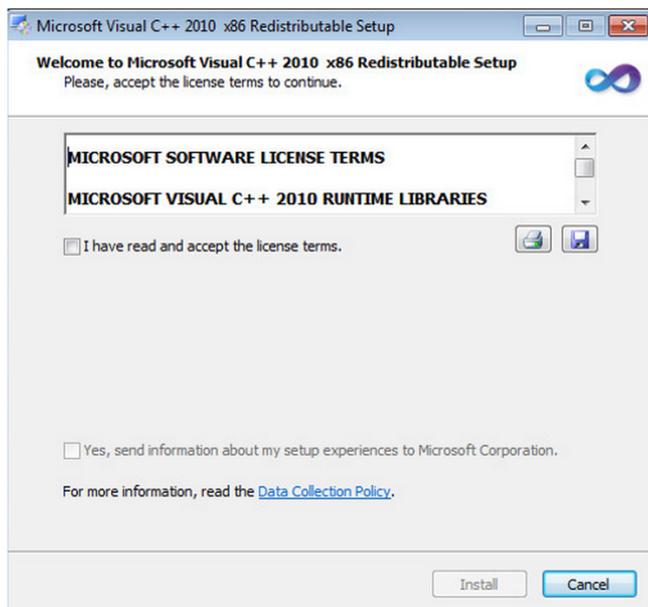


FIG. 20 Visual C++ Welcome Screen

- FIG. 21 is how the Navigation Bar looks in the event the C++ Redistributable is launched. If the C++ install window does not pop up in front of the Composer window, select it from the Navigation Bar

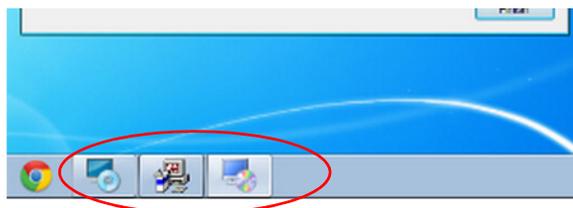


FIG. 21 Navigation Bar View

- The C++ installation shown in stalling in FIG. 22 runs fairly quickly in comparison to Erlang.
- After the C++ installation is completed (FIG. 23), close its installer and Erlang will recommence.
- When Erlang installation is complete (FIG. 24), close out of its installer to continue with Composer and its dependencies.

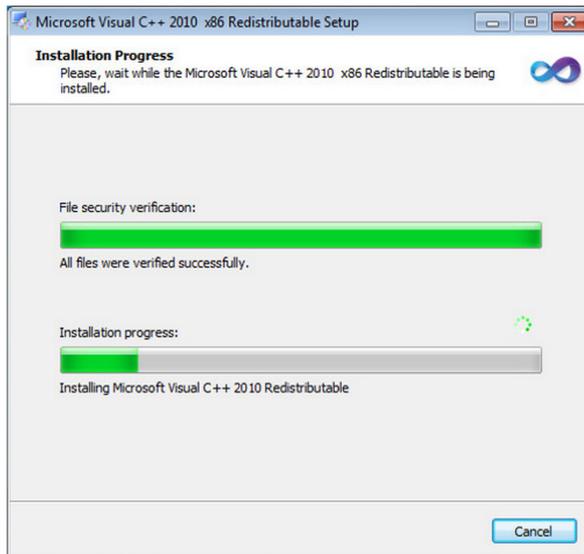


FIG. 22 Visual C++ Installing

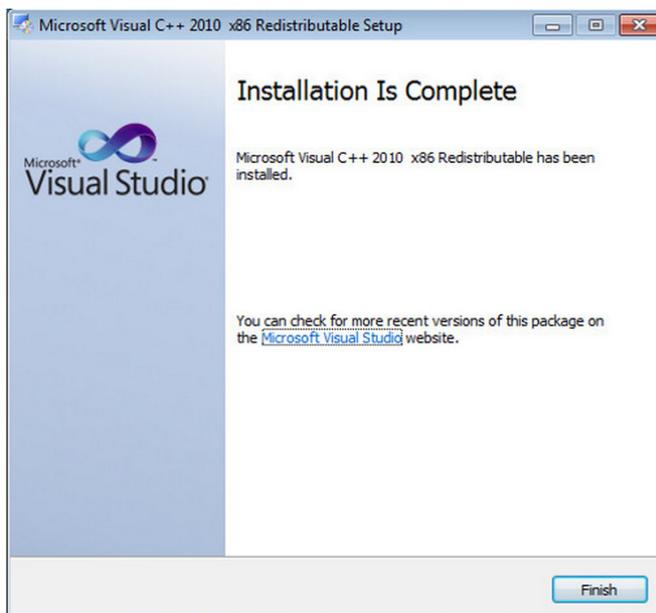
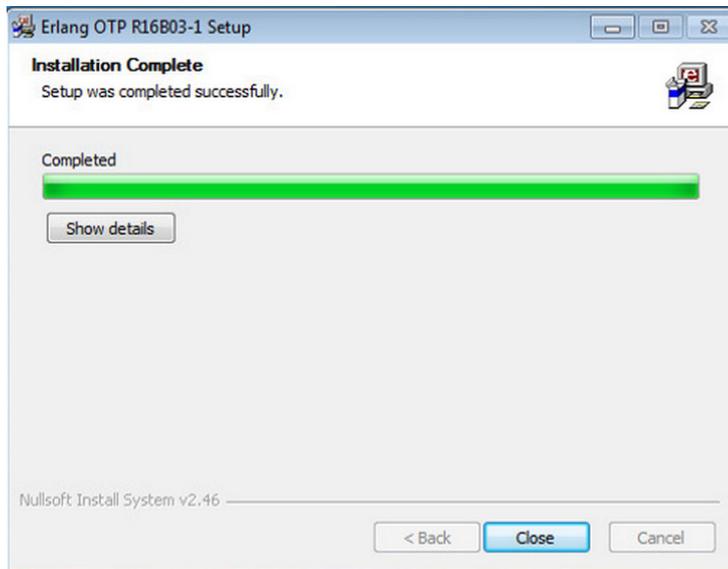


FIG. 23 C++ Installation Complete



**FIG. 24** Erlang installation Complete

## RabbitMQ Installation

1. RabbitMQ's installation will launch after the Erlang installer is closed. Installing the Start Menu folder is optional (FIG. 25). The RabbitMQ Service is required for this Composer installation. Ensure the *RabbitMQ Service* option is selected before clicking **Next**. If RabbitMQ is already present on this machine, ignore this section and go to *Licensing* on page 28.

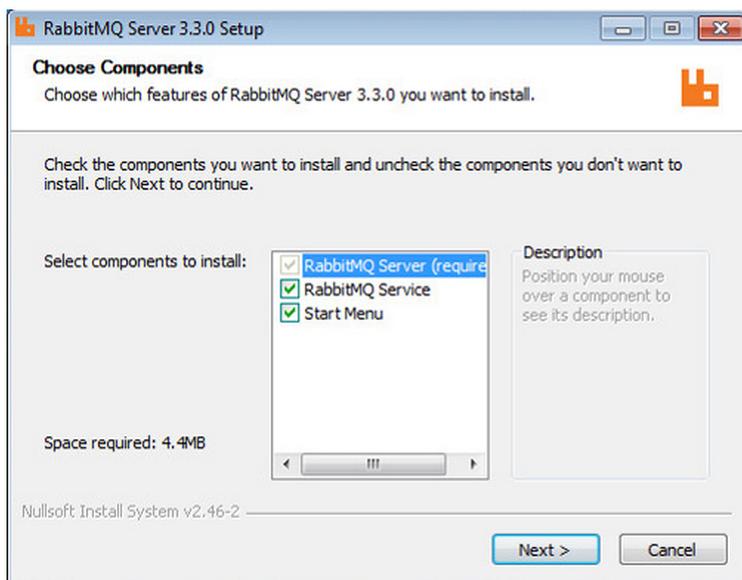


FIG. 25 RabbitMQ Server Setup - Choose Components

2. FIG. 26 shows an example of the Windows Navigation Bar with RabbitMQ running. If the RabbitMQ installation window does not pop up in front of the Composer window, select it from the Navigation Bar.



FIG. 26 Navigation Bar with RabbitMQ Running

3. RabbitMQ Server 3.3.0 Setup window requests defining the *Destination Folder* (FIG. 27). It is recommended to leave this as the default value provided (**C:\Program Files (x86)\RabbitMQ Server**). If this directory is changed, other configuration changes in the installer will be affected. Refer to *RabbitMQ Manual Edits* on page 32. Click **Install** to begin the installation.

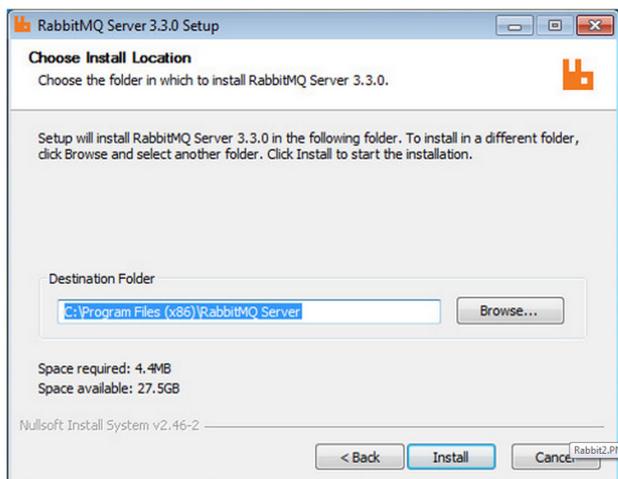


FIG. 27 RabbitMQ Server Setup - Choose Install Location

- Progress is indicated in the *Installing* dialog (FIG. 28). RabbitMQ installs much quicker than Erlang or Composer. Simply wait for it to complete, and then continue.

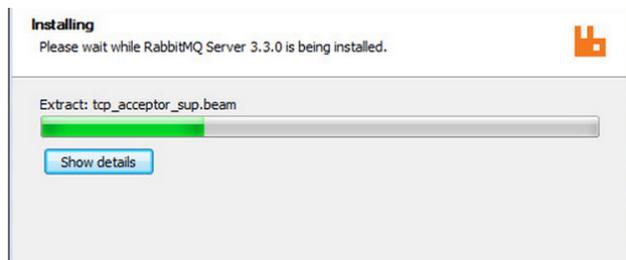


FIG. 28 Installer Status Bar

- Windows may or may not require security permissions be given to RabbitMQ and Erlang based on your security settings. Please allow any Windows Firewall permission queries (FIG. 29).



FIG. 29 Security Alert

- When completed, close out RabbitMQ's installer by clicking **Finish** to continue with the Composer installation.

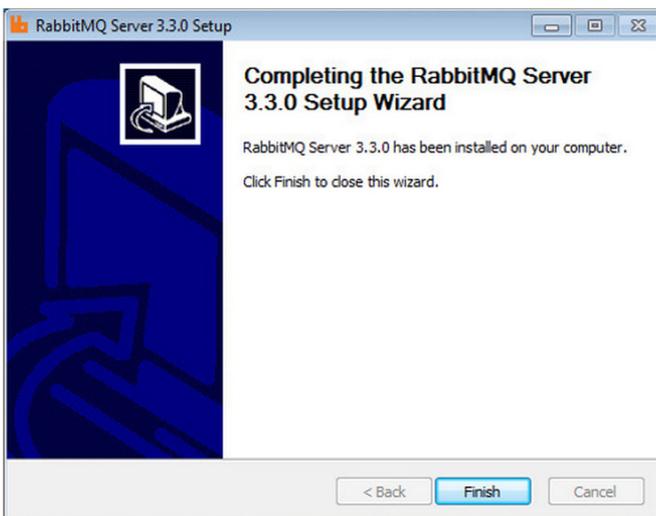
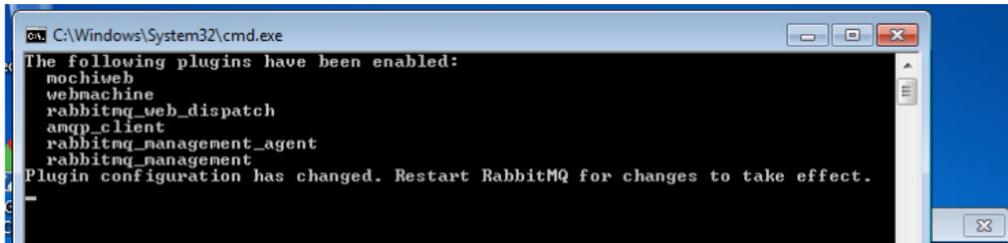


FIG. 30 RabbitMQ Server Setup Complete

- If RabbitMQ's destination folder was left as the default, the command prompt will be launched and close automatically. If the directory has been changed, additional steps will be required to configure RabbitMQ appropriately. Refer to *RabbitMQ Manual Edits* next, otherwise continue with *Licensing Manager*.

A screenshot of a Windows Command Prompt window. The title bar reads "C:\Windows\System32\cmd.exe". The window contains the following text:

```
The following plugins have been enabled:  
mochiweb  
webmachine  
rabbitmq_web_dispatch  
amqp_client  
rabbitmq_management_agent  
rabbitmq_management  
Plugin configuration has changed. Restart RabbitMQ for changes to take effect.
```

**FIG. 31** Command Prompt Window for Default Destination Folder

## Licensing Manager

1. The AMX Licensing Manager will launch automatically to either create a new entitlement for this Composer installation (FIG. 32), or in the event of an upgrade, it will use the existing entitlement. Go to *Licensing* on page 28 for Licensing procedure steps and then return to finish the installation.



FIG. 32 AMX License Manager

2. After the Licensing Manager launches, this is what the Window Navigation Bar should look like (FIG. 33). If the Licensing Manager installation window does not pop up in front of the Composer window, select it from the Navigation Bar.



FIG. 33 Navigation Bar With Licensing Manager Running

3. The Publisher Guardian service need to be started after RabbitMQ is installed. This command prompt window pops up showing the service is starting up (FIG. 34).

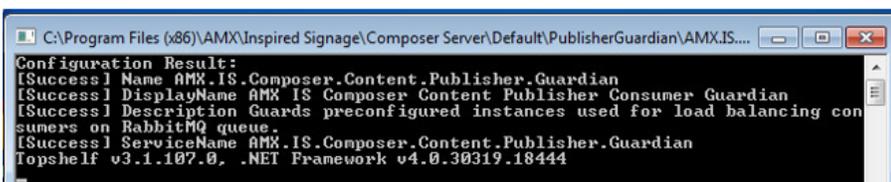


FIG. 34 Publisher Guardian Launch

4. ) If all steps were completed appropriately, the following window appears advising that the user should reboot their system (FIG. 35). Click **Finish** to complete and then manually restart the system (reboot) afterwards.

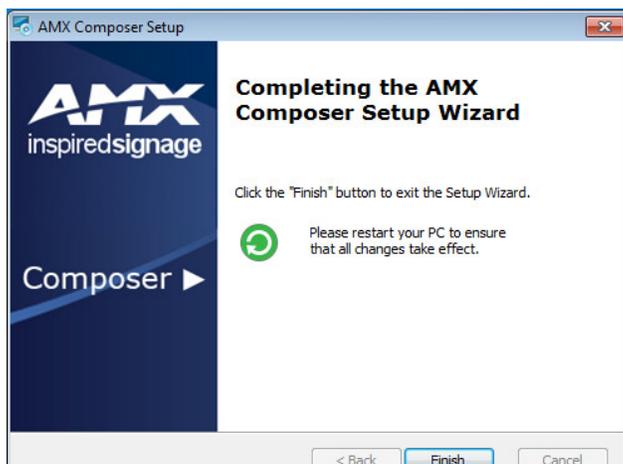


FIG. 35 Composer Setup Finished

# Upgrade Procedure

## Overview

These instructions are intended to be used to upgrade existing customers from Composer 5.X to the latest release of Composer 5.6. In the past we used Window Installer XML (WIX) to install the Inspired Signage Composer application on either customer desktop or server machines. Along with several feature improvements and additions, Composer 5.6 will release with a new installer technology called Advanced Installer (AI). In order to accomplish an upgrade to Composer 5.6, the old installation must first be removed as WIX and AI are not completely compatible. This process, while in most cases a manual one, helps eliminate a whole host of potential problems. The primary reason the switch from WIX to AI was made was to improve stability of the install, upgrade, and uninstall processes.

## Backup Composer 5.x Files:

Certain files need to be manually saved from the existing Composer 5.x installation to persist your data through this upgrade process.

If using a remote instance of SQL Server (meaning your database exists on a separate machine from your Composer installation), a database backup will not be necessary. Be sure to either save your web.config (as described below) or acquire your SQL connection information for your remote database. With this information you can connect to your existing database during the Composer 5.6 install. Details on how to extract the connection information from the Web.config are provided in the AI instructions below.

1. Copy these files to a location accessible both during and after the Composer 5.6 install process. Keep these files from your WIX Installation.

**NOTE:** Remove the bold (x86) text in a directory path below if on a 32 bit machine. Switch the bold Server text to Desktop if your installation of Composer is a Desktop version.

- Web (C:\Program Files (x86)\AMX\Inspired Signage\Composer **Server**\Default\Web)
    - Directory: DataFiles
    - Directory: LocalPreviewFolder
    - Directory: TpkFiles
    - File: Web.config
  - License Manager Entitlement - See *Licensing* on page 28.
2. Back up the Database if using a local instance of SQL (meaning your database exists on the same machine as your Composer installation). SQL Management Studio will be needed for this process.
    - AMX recommends following this walk through below if inexperienced using SQL Management Studio to perform database backups.

### [§ Backup Walkthrough](#)

- Perform a backup of both *AMXComposerDatabase* and *PostOfficeServerDB*.

**NOTE:** Backing up the database and the entitlement is a precautionary measure. The backups will not be used in the upgrade procedure.

## Composer 5.x Uninstall Instructions:

1. Backup the existing Composer installation as described in *Backup Composer 5.x Files* on page 1.
2. Shut down Composer's Web Server by following either step 3 or step 4 below.
3. If not running IIS, stop the AMX Web Server - Default service.
  - a. Navigate to Windows Local Services by searching *Services* in the start menu.
  - b. Click on the service name to display the service controls to the left of the list of services.
  - c. Click the *Stop* command.

**NOTE:** If the service was already stopped and disabled, then you are likely configured to run Composer using IIS. Follow the instructions below in this case.

4. If running IIS, remove IIS Configuration.
  - a. Open the IIS Manager by searching *IIS* in the start menu search.
  - b. Delete the Composer application under "*IIS Instance Name\Sites\Default Web Site*."
  - c. From the *Application Pools* configuration page, delete the *Composer Application Pool*.
5. Navigate to the start menu shortcuts and run the uninstall shortcut there.
  - a. Start > All Programs > AMX Inspired Signage > Composer
6. Navigate to *Programs and Features* from the Windows Control Panel.
7. Right click and uninstall the following 3 applications:

- *AMX Inspired Signage Composer Server v5.x.xx.xxx* (if applicable)
- *AMX License Manager*
- *Sentinel RMS License Manager 8.4.1*

In certain cases, uninstalling Composer will uninstall the other two applications. This is not always the case, so be sure to uninstall the other two applications if they are left behind. Also, in cases using a remote licensing server, only the first two applications will need to be uninstalled.

8. Reboot the machine.
9. Once rebooted delete the following:
  - Directory (remove the bold text if on a 32 bit machine)

C:\Program Files (**x86**)\AMX\Inspired Signage

- Shortcut Folder

Start Menu\All Programs\AMX Inspired Signage

## Install Composer 5.6 with Composer 5.x Information:

Follow these instructions in tandem with *Installation Procedure* on page 11. The steps below specify the upgrade unique actions that need to be performed during a standard Composer 5.6 install.

**NOTE:** *If Composer Desktop was uninstalled, then a new license entitlement for Composer Server will be needed.*

The installer EXE will appear as: *ComposerSetup\_v5.6.\*\*\*.exe*

1. Before running the AI installer, find the Database Connection Strings in the Web.config file from Composer 5.x. These can easily be found by searching in a preferred text editor and looking for the database names. There are two Connection Strings that are stored next to one another in the Web.config, and you will need to save them both.
  - **Database Name: AMXComposerDatabase**
  - **Database Name: AMXPostOfficeDatabase**

They will appear in the following format:

```
<add name="Database Name" connectionString="Connection String" ... />
```

Save the *Connection String* portion of the line in the Web.config. A Connection String example is shown below:

```
Data Source=localhost\SQLEXPRESS;Initial Catalog=AMXComposerDatabase;Integrated Security=True
```

2. Install all of the required Prereqs as per the *Prerequisites* on page 4.
3. Begin the installation as described in the *Installation Procedure* on page 11 with the saved Connection Strings.
4. Be sure to right click and run the EXE as Administrator.
5. Once the **SQL Database** dialog appears, you will need to provide the captured connection strings from above. If invalid information is entered (meaning a SQL connection cannot be established), the installer will notify you which string is incorrect before letting you proceed (FIG. 36).
6. Follow the remaining prompts to complete the installation.
7. License Manager will launch. Use your existing entitlement for Composer as it will not have been removed during the uninstall process unless you were previously on a Desktop version of Composer. If this is the case please contact AMX Customer Support to get a new entitlement for your installation.

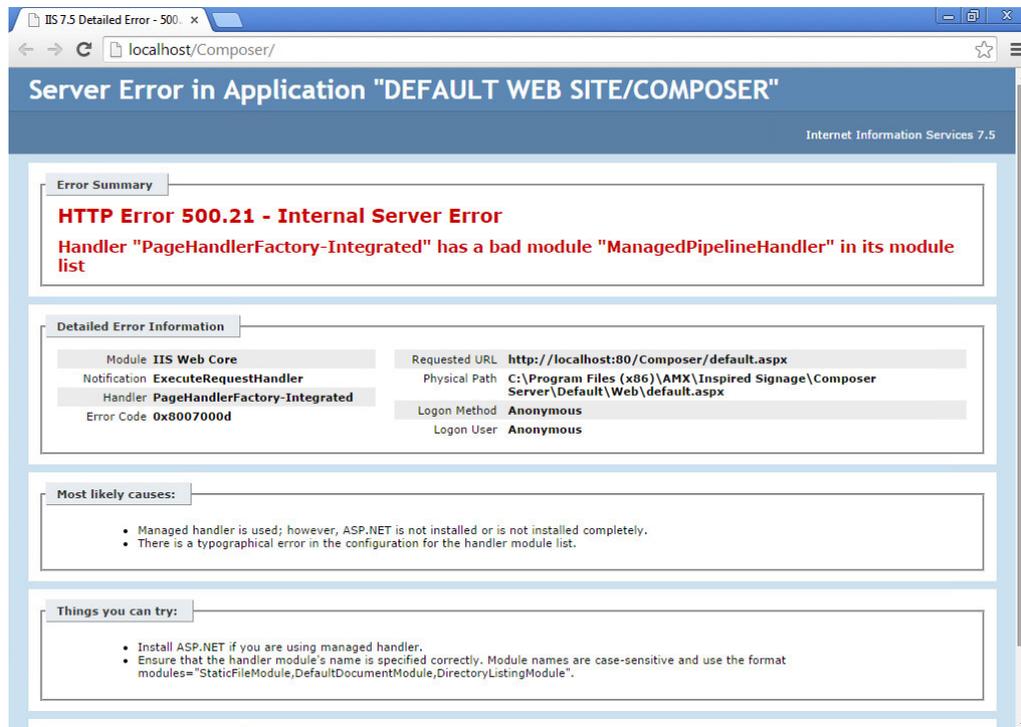


FIG. 36 Server Error

## Restore back up files

**CAUTION: DO NOT: Copy the old Web.config in place of the new one.**

1. If custom settings exist (such as Active Directory configurations) that need to persist to the new Composer installation, contact the person who initially configured Composer on your machine, or AMX support, and provide them with your old Web.config.
2. Replace the new directories with your backups
  - DataFiles
  - LocalPreviewFolder
  - TpkFiles
3. Reboot your machine.

This task is now complete. Your new Composer should be ready for use. Now would be an opportune time to upgrade the Xport installation to Xport 1.3 if you have not already done so. Refer to *Upgrading to Xport 1.3* on page 27.

## Modify Web.config File

When upgrading from a 5.x and Active Directory has been configured, the new Composer web.config needs to be modified using the backed up web.config. This file can be found at:

**InstallDirectory\AMX\Inspired Signage\Composer Server\Default\Web\web.config**

There is a section in the old web.config that needs to be copied into the new web.config in order for the configurations to persist.

1. Locate the <userDirectory> block of configuration information in the old Web.config.
  - a. Find the section in the file with the following format (the ellipse is a place holder for additional lines) <userDirectory>
 

```

          ...
          </userDirectory>
          
```
  - b. Have this section ready to copy into the new Web.config.
2. Open the new Web.config to edit.
  - a. Navigate to:
 

**C:\Program Files (x86)\AMX\Inspired Signage\Composer Server\Default\Web**
  - b. Open the Web.config in a preferred text editor.
3. Place the Active Directory information into your new Web.config.
  - a. Enter a new line after the <configuration> tag.
  - b. On the new line copy the full section between the tags found in Step 1 including the <userDirectory> and </userDirectory> tags.
4. Save the file.
  - a. If unable to save it to the same location due to permissions issues, save it to your desktop first, then copy it from the desktop into the Composer Web folder.

## Notify Composer Users

Following the Composer upgrade, the link to Composer will now have a new path. If using the same machine that Composer is installed on, Composer can be accessed via this URL: *localhost\Composer*. Send out a memo notifying all Composer users to update their browser bookmarks to access Composer using the new URL: *MachineName\Composer*.

# Upgrading to Xport 1.3

## Overview

These instructions are intended to be used to upgrade existing customers to the latest release of Xport 1.3 after a Composer upgrade. Due to a change in practices related to the use of the AMX License Manager, the typical upgrade process for Xport is a little more involved. It is a simple process of removing the existing License Manager from your PC so that the Xport 1.3 installer can place the appropriate Manager on your machine.

## Removing AMX License Manager

1. Navigate to *Programs and Features* from the *Windows Control Panel*
2. Locate and select *AMX License Manager*.
3. Click the **Uninstall** command and wait for that process to complete
4. Locate and select **Sentinel RMS License Manager 8.5.1**.

**NOTE:** *This component is only installed if utilizing a local instance of the license server. If hosting the license server remotely, this application will not be installed.*

5. Click the **Uninstall** command and wait for that process to complete.

## Install Xport 1.3

The only thing that needs to be removed was the License Manager. The old Xport installation can remain in place. The Xport 1.3 installer can handle upgrading the existing Xport and will install the appropriate AMX License Manager. Simply run the Xport setup EXE and follow the dialogs as in the past. Once the point has been reached where the License Manager automatically launches, you will notice that it will pick up your old entitlement.

If experiencing any issues entitling the new installation, please contact technical support at 800.932.6993.

# Licensing

## Overview

To use the new Composer Installation, it must first be licensed using the AMX License Manager. The AMX License Manager is used to install and manage software licenses for Composer (as well as other AMX software applications) on your local machine. The local license manager communicates with a license server application which can be based on the local machine or elsewhere on the network.

Run the License Manager as follows, select **Start > Program Files > AMX Inspired Signage > AMX License Manager**. This starts the License Manager. Once the License manager launches, the welcome page appears listing the AMX Software just installed. Select the product to license and click **Next** to proceed to the *Select License Server* dialog where a current license server on your network can be specified, or install one locally.

## Select License Server

Use the options in this dialog to install the AMX License Server application on this machine, or select an existing network license server.

**NOTE:** *Only one instance of Composer can be used per AMX license server otherwise you risk problems with license contention. For each instance of Composer you will need an AMX license server.*

Choose one of the Select License Server options:

- *Install the AMX License Server on this machine* - This is the default option.
- *Search the network for available license servers* - Use this option if the AMX License Server application is already installed on your network, for example if you have other AMX products.
- *Manually enter the license server hostname or IP address* - Use this option if AMX License Server is on the network and you know the hostname or IP address or are having problems using the previous option.



**FIG. 37** AMX License Manager Window

If the AMX License Server application has not previously been installed on this server, then the first option (selected by default) is to install the AMX License Server on this machine.

**NOTE:** *Once the AMX License Server application has been installed locally, the first option in the Select License Server dialog changes to "Use the local license server installed and running on this machine".*

## Search the Network for License Servers

Proceed as follows:

1. With this option selected, click *Next* to proceed to the Select License Server dialog. This dialog provides a listing of all AMX License Servers detected on the LAN.
2. Select the desired AMX License Server and click *Next* to proceed to the Select Licensing Option dialog.
3. If your server does not appear in the list, click *Refresh*. If after refreshing the server list, you still do not see your server, click on the link **My License server was not listed, let me specify the license server path** and enter the hostname or IP address of the license server manually.

## Licensing Option Dialog

Proceed as follows:

1. Select the product to license, in this case Composer and click **Next** to open the Licensing Status window. This page shows what licenses, if any, have been installed for the selected product, and details the number of users permitted in the *Qty* column and the *License Version* and *Status*.
2. Select **Click here to continue** to proceed to the *Licensing Options* menu. The options are as follows:
  - *Request a trial/evaluation license* - Select this option if you want to request a free 30-day Trial License. See the Request a Trial/Evaluation License (below) for details.
  - *Register License By Entitlement ID* - Select this option if you are installing a new license.
  - *View Existing Licenses* - view existing software licenses for this product.

These options are discussed in more detail below.

### Request a Trial License (Option A)

This option requires that you have Internet access (in order to contact the AMX Licensing Server)

1. Click the **Request a trial/evaluation license** option in the *Licensing* options menu to request a trial license for Composer
2. Click **Next** to proceed to the *Contact Information* window. Enter your information. Note that you will not be able to proceed until you have filled in all the fields.

**NOTE:** *If an AMX.COM account preexists, click on Lookup Account to provide your credentials (email address and password) to automatically populate the contact information for this license based on your existing AMX account information.*

3. Click **Next** to proceed to the *Customer Information* window. Select your industry sector from the drop down menu.
4. Click **Next** to contact the *AMX Licensing Server* to obtain a trial license.
5. Once the trial license has been obtained, it is automatically activated
6. You will now be prompted to Restart Composer as the license has been modified. Choose from one of the following options:
  - *Restart the default AMX Web Server* - use this option if you have not changed Composer to run under IIS. ( Default Option for Desktop/Server installations of Composer )
  - *Restart IIS* - use this option if Composer has been configured to run under IIS. (Server version of Composer only)
  - *Manual Restart* - use this option if you want to restart the web service manually using the Microsoft Management Console.

### Register License By Entitlement ID (Option B - Install a Permanent Software License)

This option requires a valid Composer Entitlement ID, effectively a License key (obtained from AMX).

1. In the *Licensing Options* menu click **Register License by Entitlement ID**
2. This selection opens the Contact Information window. Enter your contact information.

**NOTE:** *If you already have an amx.com account, click on Lookup Account to provide your credentials (email address and password) to automatically populate the contact information for this license based on your existing AMX account information.*

3. Click **Next** to proceed to the *Customer Information* window. Select your industry sector from the drop down menu.
4. Click **Next** to proceed to the *Install New AMX Product License* window.
5. Enter your Entitlement ID in the text field provided. Entitlement IDs begin with the prefix "ENT-".
6. Click **Next** to prompt the License Manager to contact the AMX Licensing Server and activate the license associated with the provided Entitlement ID.

**NOTE:** *An error message will be displayed if the entitlement has already been registered to another system, or if the entitlement ID is invalid. Please contact AMX customer service if you encounter any difficulties obtaining your product license.*

7. The *License Activated* window indicates that the license was successfully activated. Click **Next** to return to the *Licensing Options* menu window.

**NOTE:** *If this server has previously had a trial license registered by Entitlement ID, the trial license will no longer be listed in the Installed Product Licenses dialog. Once a license is registered, only valid registered licenses are displayed. See View Existing Licenses below.*

8. The system prompts to Restart Composer as the license has been modified. Choose from one of the following options:
  - *Restart IIS* - use this option if Composer has been configured to run under IIS.
  - *Manual Restart* - use this option if you want to restart the web service manually using the Microsoft Management Console.
9. If you are licensing during an install, return to the installation at Step 2. on page 22.

# Post Installation

## Overview

Once all the components of the Composer Server Suite have been installed, carry out the following post installation tasks described in depth in the following pages:

- Directory Integration
- Login to Composer

## Directory Integration

This section describes how to configure Composer to use an external directory provider. This external directory provider authenticates Users and determines which Composer User Groups these Users should belong to.

**NOTE:** *This section assumes an understanding of Directory Services and should be carried out by a system administrator.*

Composer manages authentication and User Groups by default. To change this, proceed as follows:

1. Select **Start** or click the **Windows** icon depending on your version of Windows.
2. Select All **Programs > AMX Inspired Signage > Configure Authentication**, to run the tool.
3. Set the checkbox **Configure Composer to use external directory provider**, to enable this feature.
4. In the *name* field, enter the name that will be used to identify this directory in the directory drop down in the login dialogue window for Composer.
5. In the *address* field, enter the hostname or IP of the server that hosts the external directory server (ex. **directoryserver.amx.com** or **192.168.80.7**).
6. In the *domain name* field, enter the Microsoft domain to which the directory belongs. This is not necessary if using Lightweight Directory Services (see Active Directory Type below).
7. In the *Base User Path* field, enter the Distinguished Name of a container object (within the directory) which contains the users that are permitted to log in e.g. OU=Staff Users, OU=ISUsers, OU=Inspired Signage, DC=amx, DC=local. It is possible to select the root node of the directory, but the larger the user community that has to be searched, the longer it will take to log in so this feature has both security and usability implications.
8. If your organization is using Active Directory Lightweight Directory Services, set the *Active Directory Type* checkbox.
9. If the local security policy has been set up to deny users access to data about themselves, it may be necessary to enter the authentication details in the *Bind Username and Password* field to access the directory as another user with greater privileges. Enter the username in the left hand field and the password in the right hand field.

**NOTE:** *The password is obscured on entry and encrypted when copied into the Composer configuration file.*

10. Use the **Password Security Transfer** drop down to select whether or not passwords are encrypted before being sent between Composer and the Directory Server. Three options are available, choose the option appropriate for your organization's setup:
  - *Send password Securely with Kerberos*
  - *Simple bind* (not secure)
  - *Simple bind using SSL* (Secure Sockets Layer)
11. Click **Save** to save the changes, a window appears requesting a restart of the Composer web service. Select one of the options:
  - *Restart IIS* - use this option if you have configured Composer to run under the IIS web server
  - *Manual restart* - use this option if you want to restart the web server manually
12. Click **Save** to proceed.
13. When logging into Composer, a drop down appears in which you use to select the appropriate directory to verify the user credentials entered.

If manually adding users to Composer, re-run this tool and clear the *Configure Composer to use external directory provider* check box. Manually added users can be assigned to User Groups which are later mapped to Directory Groups. The manually assigned users will not be lost.

## Login to Composer

**NOTE:** *Login to Composer cannot be completed unless the licensing process for this installation has been completed.*

Point a web browser to

**http://<hostname>/Composer.**

Where hostname is the IP address or network name for the Composer Server and port is the port used by the server (8080 by default).

At this stage, the system prompts to install the Silverlight browser plugin from Microsoft (this is not needed when you login subsequently). Once this is complete, the following progress screen appears as the Composer application loads (FIG. 38).



**FIG. 38** Progress Screen for First Login

When all the Composer modules have been installed, a login screen appears as shown in FIG. 39.

**FIG. 39** Login Screen

**NOTE:** *If composer has been configured to use an external directory then there will be an extra field, the Directory drop down menu.*

Login to Composer as follows:

1. Enter the default username and password: username = administrator, password = administrator.
2. If Composer has been configured to use an external directory provider, then an extra menu called directory appears. Select the directory containing the account to access using the drop down. Alternatively, to login using the administrator account or any manually created local account, select **Local Composer Users**.
3. Click **Login**. You should now be able to access Composer.

**NOTE:** *Your first task will be to change the default password. You must change the password to avoid compromising security. See the Composer help files for details.*

## Register IIS

Register IIS as follows:

1. If the IIS installation has not been registered, an error message appears as shown in FIG. 40.

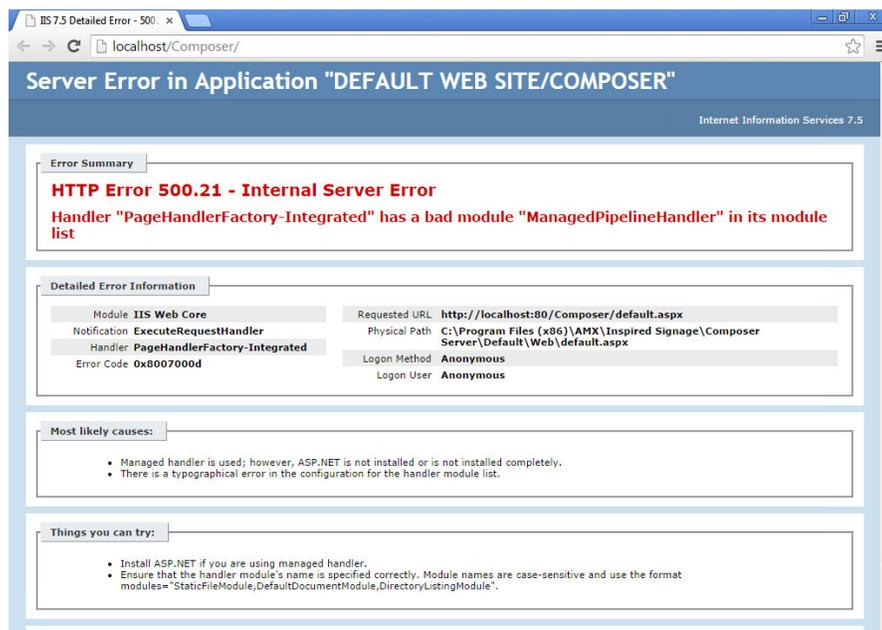


FIG. 40 IIS Registration Error Message

2. Ensure that Microsoft .NET 4 or higher has been installed and then run the following command from the command line.

**ASPNET\_REGIIS.EXE -i** located in **C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319**

**NOTE:** *Version number may be higher depending on .NET version.*

## Notify Composer Users

Following the Composer upgrade, the link to Composer will now have a new path. If using the same machine that Composer is installed on, Composer can be accessed via this URL: `localhost\Composer`. Send out a memo notifying all Composer users to update their browser bookmarks to access Composer using the new URL: `MachineName\Composer`.

## RabbitMQ Manual Edits

The following is a the quick edit that would need to take place after an install is complete when the RabbitMQ default directory is changed.

1. Locate the directory where RabbitMQ was installed on your machine. This path was set during the Composer installation process.
2. Navigate to where Composer was installed (remove bolded text if on a 32 bit machine):  
**C:\Program Files (x86)\AMX\Inspired Signage\Composer Server\Supporting Files\RabbitMQ**
3. Right Click and Edit the file that matches your system type.
  - *EnableManagement32bit.bat* for 32 bit operating systems
  - *EnableManagement64bit.bat* for 64 bit operating systems
4. Using the modified RabbitMQ directory, update the second line of the file to match the new location.
  - The only thing that should be replaced here is *C:\Program File (x86)*.
  - *\RabbitMQ Server\rabbitmq\_server-3.3.0\sbin\rabbitmq-plugins.bat* will remain the same regardless of where RabbitMQ is installed.
5. Save and close the file once the edit is complete.
6. Right Click and Run the edited batch file.

# Installation Troubleshooting

## Log Files

If the installation process fails, make note of where it failed and any error message that displayed on the screen. The Composer installer outputs a log file directory on the root drive with the file name *ComposerServerInstallation.log*. For example if your root drive is C:\ then the log can be found at *C:\ComposerServerInstallation.log*.

## Silverlight Errors

The Silverlight browser Plug-in is known to crash. In this instance, the browser will provide the following message or something similar. If Silverlight does not correct itself, you may stop the Plug-in by selecting Yes in the following pop-up window. Refreshing the browser window is a common fix for Plug-in crashes.



FIG. 41 Silverlight Plug-in Unresponsive Error Message

## RabbitMQ Windows Services Fails to Run

If the machine name changes or VM name changes, Rabbit MQ (the publishing side of Composer) does not start - i.e. The RabbitMQ windows services fails to run. The reason for this is that during the installation RabbitMQ is tied to the machine name. To fix the issue, change the Windows "hosts" file to point the old machine name to localhost.

Host files on Windows 7 is found here:

`c:\windows\system32\drivers\etc`

The Windows hosts file should resemble the following:

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com           # source server
#       38.25.63.10      x.acme.com             # x client host

# localhost name resolution is handled within DNS itself.
#127.0.0.1       localhost
#::1            localhost
```

Add an entry as follows:

**NewMachineName localhost**

# Transfer an Installation of Composer to another Machine

## Overview

To set up a system on one machine then move it to a permanent hosting machine, both the database and the data files must also be moved.

**NOTE:** *It is very important that both the source and destination machines have exactly the same version of composer installed.*

Carry out the following steps on the source machine:

1. Stop the AMX IIS Web Server. This will ensure that no changes are made to the database when transferring the data. The process for IIS depends on your version of windows. Consult the IIS documentation.
2. Locate the Composer database in the following directory:

- Windows 2008 server, Windows 7

**C:\ProgramData\AMX\Inspired Signage\Composer Server\Default**

The database files we are interested in are *AMXComposerDatabase.mdf* and *AMXComposerDatabase\_log.ldf*.

3. Copy the contents of the following directories to a temporary location ready for transfer to the destination machine:

- Media Files

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\DataFiles**

- Template Guide Images

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\LocalPreviewFolder**

- Imported Template Packs

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\TpkFiles**

Carry out the following steps on the destination machine:

4. Install Composer if not already installed. As stated earlier this must be exactly the same version as Composer from the source machine.
5. Stop the AMX IIS Web Server. The process depends on your version of windows. Consult the IIS documentation.
6. Drop the installation database. This can be done in SQL management studio or using the command line as follows:
  - a. Open a command prompt (start... run... type **cmd** in the run dialog)
  - b. Type: **sqlcmd -S localhost\SQLEXPRESS <enter>**
  - c. Type: **USE [master] <enter>**
  - d. Type: **GO <enter>**
  - e. Type: **DROP DATABASE AMXComposerDatabase <enter>**
  - f. Type: **GO <enter>**
7. Copy the database files from the source machine to the destination machine. Note the folder that these files get copied to should have the necessary user rights so that SQL Server can see and modify them. It is recommended to use the directories that a default installation uses i.e.
  - Windows Vista, Windows 2008 Server, Windows 7

**C:\ProgramData\AMX\Inspired Signage\Composer Server\Default**
8. Attach the database. This can be done in SQL management studio or by using the command line as follows:
  - a. Open a command prompt (Click start, select run, and type **cmd** in the run dialog).
  - b. Type: **sqlcmd -S localhost\SQLEXPRESS <enter>**.
  - c. Type: **USE [master] <enter>**.
  - d. Type: **GO <enter>**.
  - e. Type: (Note, change the copy location depending on where you copied the database files)  
**CREATE DATABASE [AMXComposerDatabase] ON <enter>**  
**( FILENAME = N'C:\<copy location>\AMXComposerDatabase.mdf' ), <enter>**  
**( FILENAME = N'C:\<copy location>\AMXComposerDatabase\_log.ldf' ) <enter>**  
**FOR ATTACH; <enter>**
    - f. Type **GO <enter>**
    - g. To verify that the database is attached. Type: select name from sys.databases then **GO <enter>**. You should now see AMXComposerDatabase in the list.
9. Move the files in the following folders from the source machine to the destination machine:
 

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\DataFiles**

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\LocalPreviewFolder**

**C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\TpkFiles**

10. Restart the AMX IIS Web Server. The process depends on your version of windows. Consult the IIS documentation.

# Configuring Composer Remote Data Storage

## Overview

This section explains how to configure Composer to use a location other than the C drive for uploaded files such as Images, Template Packs, and Videos. The xml configuration file Web.config contains a number of settings that determine where these uploaded files are stored. These settings are listed below. The path for this file is:

C:\Program Files\AMX\Inspired Signage\Composer Server\Default\Web\Web.config.

## DataFilePath

```
<setting name="DataFilePath" serializeAs="String">
<value />
</setting>
```

This setting tells Composer where to find the media files that are uploaded by the user or imported with a TPK (template pack). If this value is blank (the default value) it will use a default directory that is located under the Composer Web application. If this directory is changed, the contents of the directory must also be copied to the new location.

## TpkFilePath

```
<setting name="TpkFilePath" serializeAs="String">
<value />
</setting>
```

This setting tells Composer where to find the TPK files that are uploaded by the user. If this value is blank (the default value) it will use a default directory that is located under the composer web application. If this directory is changed, the contents of the directory must also be copied to the new location.

## UploadPath

```
<setting name="UploadPath" serializeAs="String">
<value />
</setting>
```

This setting tells Composer where all partially uploaded files should reside. If this value is blank (the default value) it will use a default directory that is located under the Composer Web application.

## UnzipPath

```
<setting name="UnzipPath" serializeAs="String">
<value />
</setting>
```

This setting tells Composer where all unzip operations can be performed. If this value is blank (the default value) it will use a default directory that is located under the composer web application.

## Example - Changing the Data Path to Another Local Drive

To change the location used to store uploaded media files to D:\Datafiles:

1. Stop the Composer Web Server (either IIS or the Cassini web server).  
The process for stopping the "AMX webservice" is as follows - Go to *Control Panel > Administrative Tools > Services*, select **AMX Web Server-Default** and click **Stop the Service**  
The process for IIS depends on your version of windows. Consult the IIS documentation.
2. Open the Web.config file. The path for this file is  
**C:\Program Files\AMX\Inspired Signage\ComposerServer \Default\Web\Web.config.**
3. Edit the DataFilePath setting.  

```
<setting name="DataFilePath" serializeAs="String">
<value>D:\DataFiles</value>
</setting>
```
4. Move the contents of C:\Program Files (x86)\AMX\Inspired Signage\Composer Server\Default\Web\DataFiles to D:\Datafiles.
5. Restart the Composer Web Server.

## Using a Network Location for Data Storage

You can also configure Composer to store files in a network location, for example:

- A mapped network drive e.g. a network location mapped to z:\
- A network address e.g. \\london-nas01\datafiles
- An ip network address e.g. \\192.168.80.13\datafiles

It is often the case that network storage locations are configured so that only certain people can access them. As Composer is a windows service run as a system user, you may find accessing networked drives causes problem.

## Verification Process

To confirm that the new data directory is working and that there are no issues with access rights, edit a Message in Composer with an image property. Pick an image that hasn't been used before in Composer, and save the changed Message. The image file should appear in the data directory.

Note that the image will not have the same filename, as Composer will give the image a GUID (unique) as a filename. Also note that if the same image is uploaded but with a different filename, Composer will know this is the same image and not put this file in the data directory.

# Uninstalling Composer

## Uninstalling Composer 4.x to 5.4

The following instructions describe how to uninstall Composer on Windows XP. You will need to modify these instructions as appropriate for different Windows Operating Systems.

1. Select **Start > Control Panel > Add or Remove Programs**.
2. Click **Change or Remove Programs**.
3. Select **Composer**.
4. Click **Remove**.

Uninstalling Composer does not remove the AMX License Manager (as it may be required for other AMX products on the same system). To uninstall the License Manager:

1. Select **Start > Control Panel > Add or Remove Programs**.
2. Click **Change or Remove Programs**.
3. Select **AMX License Manager**.
4. Click **Remove**.

## Uninstalling Composer 5.6

The following instructions describe how to uninstall Composer on Windows 7 and Windows Server 2008. Note that there are two paths you can take to uninstall Composer from your machine.

First:

1. Select **Start > Control Panel > Programs and Features**.
2. Select **AMX Composer**.
3. Click **Uninstall**.

Second:

1. Select **Start > All Programs > AMX > Composer**.
2. Click **Uninstall Inspired Signage Composer Server**.
3. Follow the dialog prompts to complete the uninstall.

A reboot might be required for the uninstall to take full effect.



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