



EMS DESKTOP CLIENT Installation Guide

Version 44.1

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CHAPTER 1: Introduction to EMS Desktop Client (V44.1)

This section covers the installation and maintenance of EMS Desktop Client. EMS Desktop Client is used by System Administration, IT, and some expert users to maintain software settings, and to manage space and resources.

Tip: If you are new to EMS Desktop Client, get started by [Learning About Managing EMS](#).

Concept: The Installation, Configuration, and User Guides for the EMS Desktop Client apply to all of the following editions:

- » EMS Enterprise
- » EMS Professional
- » EMS Campus Planning Interface

These editions are controlled and based on the EMS Desktop Client, however, their capabilities and features vary and are noted throughout the documentation.

This topic will provide the following information:

- » [Understanding User Types](#)
- » [Everyday User Reservations](#)
- » [EMS System Architecture](#)
- » [Upgrading?](#)
- » [Product Registration](#)
- » [Contact Customer Support](#)

UNDERSTANDING USER TYPES

There are two different user types in EMS:

1. **Administrators:** These expert users create and maintain the EMS application within your organization, and manage or approve usage of space. Administrators include conference center managers, event coordinators, registrars, facility and real estate managers, and service providers. They can use this tool to set up and control the booking process and booking templates, define space (buildings, rooms, floors, areas, and regions), define services, manage security and user permissions, grant access, initiate notifications and reports, and integrate with other applications, servers, databases, and systems. Administrators may also include Service Providers (Catering, Audio Visual, IT Support Staff), Security, and Receptionist Staff. These users will primarily use the EMS Desktop Client.
2. **Everyday Users:** This is a majority of the users in the organization. Everyday Users, such as an employee who needs to book a conference room or a consultant who needs to book a hoteling space for the day, can use it to make reservations

and book meetings. Everyday Users are typically requesting rooms and services. These users do not use the EMS Desktop Client, they will primarily use the web based application, EMS Web App in V44.1 (referred to as VEMS if using V44).

EVERYDAY USER RESERVATIONS

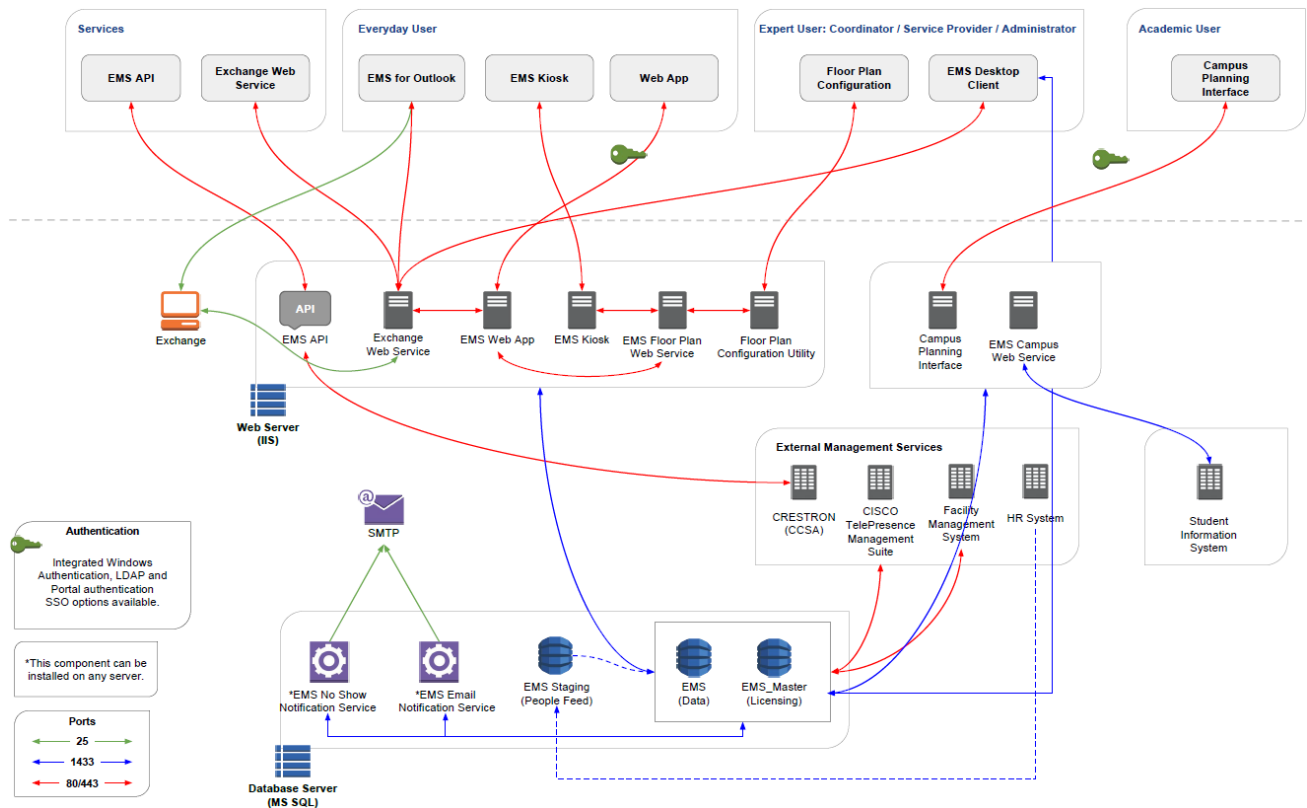
An Everyday User Reservation is any reservation that a user has submitted through EMS Web App.

The everyday user reservation searching tool in the EMS Desktop Client is identical to the Browser searching tool with one exception: when the Browser opens for the first time, the Browse for function is set to Reservations whereas the Everyday User Reservation tool is set to Everyday User Reservations. As a result, although this section is written from the perspective of using the Browser, all the information can be applied when using the Everyday User Reservation searching tool.

To open this tool in EMS Desktop Client, click the Everyday User Reservations icon on the EMS toolbar.

EMS SYSTEM ARCHITECTURE

The EMS Desktop Client is the foundation for a broad range of components, services, web applications, APIs, add-ons, and integrations.



UPGRADING?

If you are upgrading to a newer version of EMS, please encourage users at your facility to read the release notes before they begin working with the new version of the software. Doing so will minimize the amount of time it takes them to get “up-to-speed” with the new release and help them benefit from new features and functions that they might not otherwise discover.

IMPORTANT: All the EMS-related components you have licensed must be upgraded with this release.

PRODUCT REGISTRATION

Primary Contacts can obtain the license file from the Support Center area on www.emssoftware.com. This license file is required to activate your EMS software and is required for new and existing customers.

- » Configuration
- » System Administration
- » EMS Campus specific functionality or the Academic Import Utility

**Please note that some discrepancies (e.g., differences in behavior and/or exclusions) will exist.

CONTACT CUSTOMER SUPPORT

- » **Option 1 (Recommended):** Search the [Knowledge Base](#) available in the [EMS Support Portal](#).
- » **Option 2:** Submit a [Case](#) directly via the [EMS Support Portal](#).
- » **Option 3:** Email support@emssoftware.com.
- » **Option 4 (Recommended for critical issues only):** Phone (800) 288-4565

Important: If you do not have a customer login, register [here](#).

CHAPTER 2: Systems Requirements and Prerequisites

DATABASE SERVER

Microsoft SQL Server 2012 SP2

Microsoft SQL Server 2012 SP3

Microsoft SQL Server 2014 SP1, Compatibility Level 110

Microsoft SQL Server 2016 SP1, Compatibility Level 110

NOTE: To view best practices for setting up your SQL server, refer to [EMS Best Practices for SQL Server](#).

WEB SERVER

Operating System

IIS App Pool

WEB SERVER

Windows Server 2008 R2*	7/7.5
-------------------------	-------

Windows Server 2012	8
---------------------	---

Windows Server 2012 R2	8.5
------------------------	-----

Windows Server 2016	
---------------------	--

Prerequisites

Application Pool Running 4.0**

.NET Framework 4.6.1**

Minimum System Requirements

Processor: 2.0 GHz and 4 cores or faster

Memory: 8 GB or more**

Hard-Disk Space: 1 GB or more

*For up to 100 concurrent users. Increased specs required for 100+ concurrent users.

*Requires an update to Windows Management Framework to version 3.

**= varies per EMS Software Application

EMS WEB APP

DESKTOP BROWSER

Internet Explorer 11 (please see Tip below)

Microsoft Edge (latest)

Firefox (latest)

Chrome (latest)

Safari (Mac) (latest)

*= varies per application

TIP: EMS Web App V44.1 has been optimized for Internet Explorer 11 and does not require compatibility with previous versions of Internet Explorer. EMS recommends *disabling compatibility mode* when using EMS Web App

V44.1.

EMS WEB APP (MOBILE)

MOBILE BROWSER	PLATFORM
Internet Explorer for Mobile 8.1	Windows
Internet Explorer for Mobile 10	Windows
Chrome	Android 4.4, 6.0, 7.0, 7.1
	iOS 9.x, iOS 10.x
Safari	iOS 9.x, iOS 10.x

EMS MOBILE APP

SUPPORTED PLATFORMS

Android 4.4, 5.0, 6.0, 7.0, 7.1

iOS 9.x, 10.x

Prerequisites

To host and install EMS Mobile App, you will need the following:

- » EMS database server, web server and EMS Platform Services (see [Requirements](#))
- » mobile phone(s)

EMS FOR OUTLOOK

Microsoft® Office	365
Outlook (32- and 64-bit)	2010, 2013, 2016
.NET Framework	4.6.1

[Microsoft® Visual Studio 2010 Tools
for Office Runtime](#) VSTOR 2010

Prerequisites

EMS Web App	Latest
On User Workstations	Desktop requirements for Microsoft® Outlook Windows 7, 8, or 10

EMS PLATFORM SERVICES

OPERATING SYSTEM	IIS
Windows Server 2008 R2	7/7.5
Windows Server 2012	8
Windows Server 2012 R2	8.5

OPERATING SYSTEM	IIS
.NET Framework	4.6.1
Application Pool	4.0
Prerequisites	
HTTPPlatformHandler IIS Module	Download Version 1.2 here OR download the installer here .
PowerShell	5+ Version
ASP.NET Version 4.6	Under Web Server (IIS)->Web Server->Application Development: <ul style="list-style-type: none">» ISAPI Extensions» ISAPI Filters» .NET Extensibility 4.6

EMS INTEGRATION FOR EXCHANGE

Microsoft® Exchange

2010 SP3, 2013, 2016

Microsoft® Office

365

[Exchange Web Services \(EWS\) impersonation](#)

EMS DESKTOP CLIENT

OPERATING SYSTEMS

Windows 7 (32-bit and 64-bit)

Windows 8 (32-bit and 64-bit)

Windows 8.1 (32-bit and 64-bit)

Windows 10 (32-bit and 64-bit)

.NET Framework 4.6.1

EMS KIOSK APP

SUPPORTED BROWSERS

Internet Explorer 11

Google Chrome (latest)

.NET Framework 4.6.2

EMS ROOM SIGN APP (FORMERLY EMS GLANCE)

TABLET OPERATING SYSTEMS

SUPPORTED BROWSERS

iOS 9, 10

Safari

Android 5, 6

Chrome, KioWare Lite (see [Best Practice: Device Configuration Steps](#))

Windows 7, 8, 10

Internet Explorer 11, Chrome, Firefox

.NET Framework: 4.6.2

Tablet Supported Resolutions

Requirements	1024 x 768
	1280 x 1024
	1660 x 900
	1920 x 1080
	2048 x 1536

Note: EMS Room Sign App will run on touch-enabled tablets (with above resolutions) set in landscape mode. Integrating with ArmorActive enclosures require a browser that can play sound. **See Also:** [Best Practice: Device Configuration Steps](#).

EMS tests on and recommends the [iPad Mini](#) and [8" Samsung Tab A](#).

Prerequisites	EMS Desktop Client, running on database and web servers that meet our EMS System Requirements .
---------------	---

EMS CAMPUS WEB SERVICE

OPERATING SYSTEM

Windows Server 2008/2008 R2*

When installing the EMS Campus Web Service on a Windows Server 2008/2008 R2 operating system, please ensure the following Web Server (IIS) Role Services are installed:

- » Common HTTP Features
- » ASP.NET
- » IIS 6 Management Compatibility

Note: The EMS Campus Planning Interface also requires Microsoft .NET Framework 4.6.1 on the web server. In Windows Server 2008/2008 R2, this is a feature that can be enabled in Windows Server Manager.

EMS SERVICES

SERVICE	.NET VERSION	DISK SPACE
EMS Email Notification Service	4.6.1	100 mb
EMS No Show Notification Service	4.6.1	100 mb
EMS Automated Reports Service	4.6.1	100 mb
EMS Campus Auto Sync Service	4.6.1	100 mb
EMS Check-In Service	4.6.1	100 mb
EMS CISCO TMS Service	4.6.1	10 mb
EMS Floor Plans Web Service	4.6.1	2 mb
EMS Polycom Service	4.6.1	10 mb

MASTER CALENDAR V8.0 SERVICES

SERVICE	.NET VERSION	DISK SPACE
Email Notification Service	4.6.1	10 mb
Data Connector Service	4.6.1	10 mb
Data Import Service	4.6.1	10 mb

MASTER CALENDAR V7.0 SERVICES

SERVICE	.NET VERSION	DISK SPACE
Email Notification Service	4.6.1	10 mb
Data Connector Service	4.6.1	10 mb
Data Import Service	4.6.1	10 mb

REGICS

SERVICE	.NET VERSION	DISK SPACE
Email Notification Service	4.6.1	10 mb

CHAPTER 3: Installation Instructions

This topic will discuss the following installation steps:

- » [Preparation: Installing EMS Server Components](#)
- » [Installing EMS on User's Computers](#)
- » [EMS Desktop Client Web Deployment](#)
- » [Install EMS Desktop Client \(Web Deployment Method\)](#)
 - » [Switching Between Environments for EMS Desktop Client Web Deploy](#)
- » [Installing EMS Desktop Client \(Conventional Method\)](#)
- » [Obtain Installation Files for EMS Desktop Client](#)

In order to install EMS, you must perform two operations :

1. Preparation: install server components.
2. Install the application on user's computers.

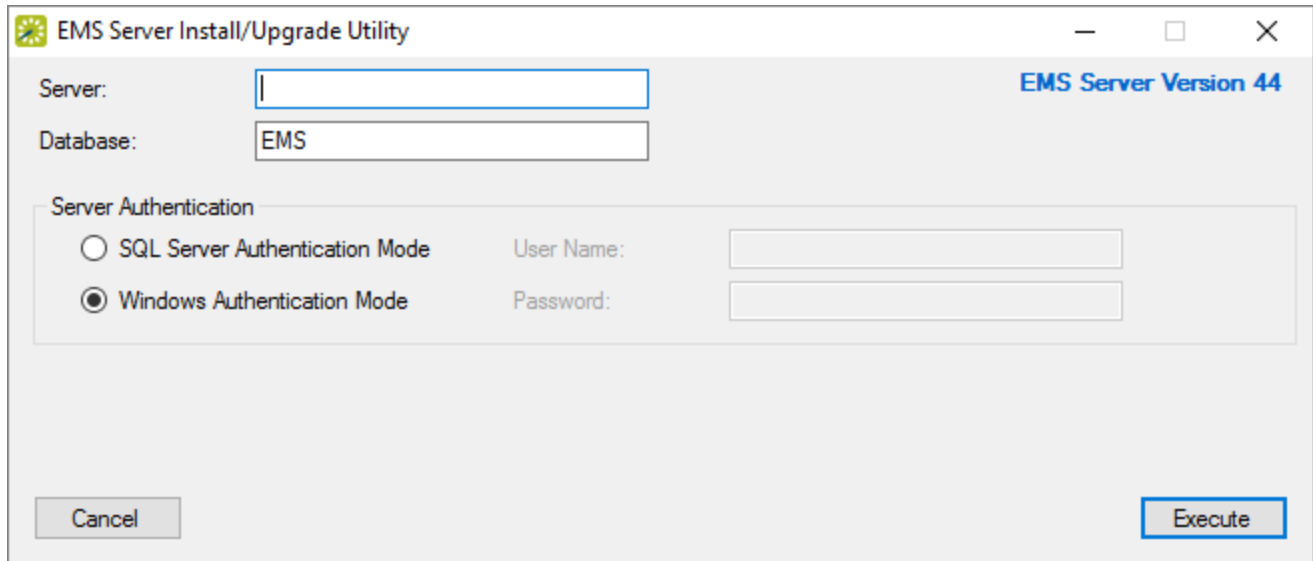
See Also: [EMS Desktop Client Deployment Options](#) for a more in-depth discussion.

PREPARATION: INSTALLING EMS SERVER COMPONENTS

The server installation process will create two EMS databases on your MS SQL Server: An **EMS_Master** database that contains licensing information and a separate **EMS** database that will ultimately contain your reservations data.

Note: A Microsoft SQL Server SA level account is required to execute the database installation process.

1. Verify that the prerequisite software has been installed.
2. Secure the **EMS.ServerInstall.exe** file.
3. Run **EMS.ServerInstall.exe** as an Administrator. (This .exe can be run from any PC that has access to your database server.)



4. In the Server text box, enter the name of the server running MS SQL Server.
5. In the Database text box, enter the name for your EMS database. (It is recommended that you accept the default value of 'EMS'.)
6. In the Server Authentication area, specify your MS SQL Server authentication credentials. If SQL Server Authentication Mode is selected, you will be required to specify a User Name and Password.
7. Click the **Execute** button. A Create Database dialog box will appear.
8. Click **Yes** to initiate the EMS database installation process.

Note: The time spent on the “Upgrading database...” phase in the installation process is highly dependent on the size of your database. Please be patient.

9. Click **OK** when you receive the “Database Installed Successfully!” message.

You have completed installing the server portion of EMS. Next you will install the software to client computers.

See Also: For information on installing the optional Email Notification Service or the EMS Campus Auto Sync Service (EMS Campus only), please see [Installing or Upgrading the EMS Email Notification Service](#) and/or [Installing or Upgrading the EMS Campus Auto Sync Service](#).

INSTALLING EMS ON USER'S COMPUTERS

After your EMS databases have been created on your database server, you must install the client software on each computer that will access your EMS database, using one of the following methods:

1. [EMS Desktop Client Web Deployment](#)
2. [Installing EMS Desktop Client \(Conventional Method\)](#)

Important: Before beginning the installation process, please install or upgrade your EMS databases. Existing versions of EMS Desktop Client Web Deployment must be manually uninstalled. Be sure to copy-off and save any files that have been customized.

See Also: [Decision Guide.](#)

EMS DESKTOP CLIENT WEB DEPLOYMENT

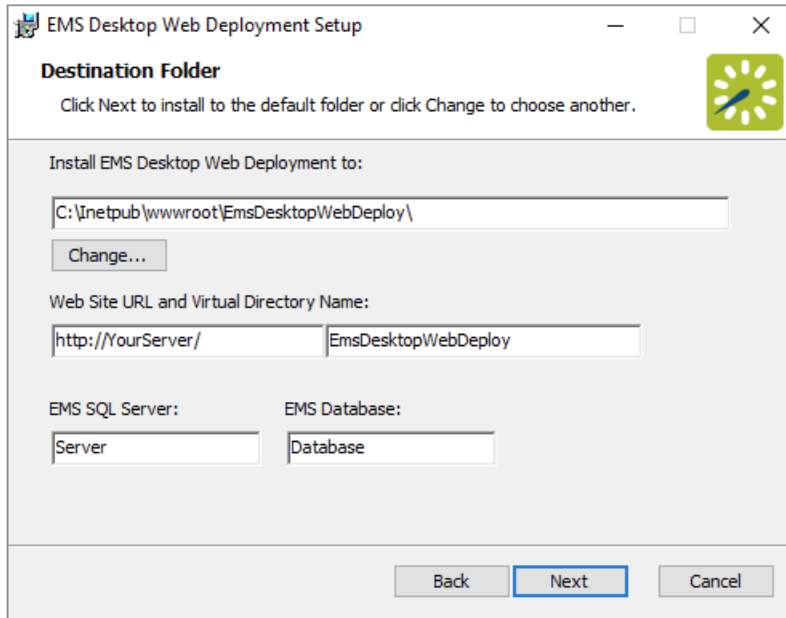
Important: Before beginning the installation process, please install or upgrade your EMS databases.

Existing versions of EMS Desktop Client Web Deployment must be manually uninstalled. Be sure to copy-off and save any files that have been customized.

WEB DEPLOYMENT PRE-INSTALLATION INSTRUCTIONS

1. Manually **uninstall** any previous versions of EMS Desktop Client Web Deployment on your web server.
2. Verify that the prerequisite software has been installed.
3. Download the **EMSDesktopWebDeploySetup.msi** file onto the web server that will be running The EMS Desktop Client Web Deployment.
4. Run **EMSDesktopWebDeploySetup.msi** as an administrator.

5. The first screen welcomes you to The EMS Desktop Client Web Deployment Setup Wizard. Click **Next** to begin the installation process. The *Destination Folder* screen will appear.



6. Select the destination folder. The installation process will create a new physical directory on your web server based on the destination folder path entered (“EMS Desktop Web Deploy” in the example above.).
7. Enter your SQL Instance Name.
8. Enter your Database Name:

- » EMS Professional customers - typically named “EMSdata”
- » EMS Workplace, EMS Campus, EMS Enterprise, EMS District and EMS Legal customers - typically named “EMS”

9. The Virtual Directory Name will default to the destination folder specified in Step 6. It is recommended that you keep the default setting. The installation process will create a virtual directory on your web server based on the virtual directory entered (“EMS Desktop Web Deploy” in the example above.) Click **Next**.

Note: The EMS Desktop Client Web Deployment should not be installed in the same virtual directory as other EMS web-based products OR under a site running another version of the EMS Desktop Client Web Deployment.

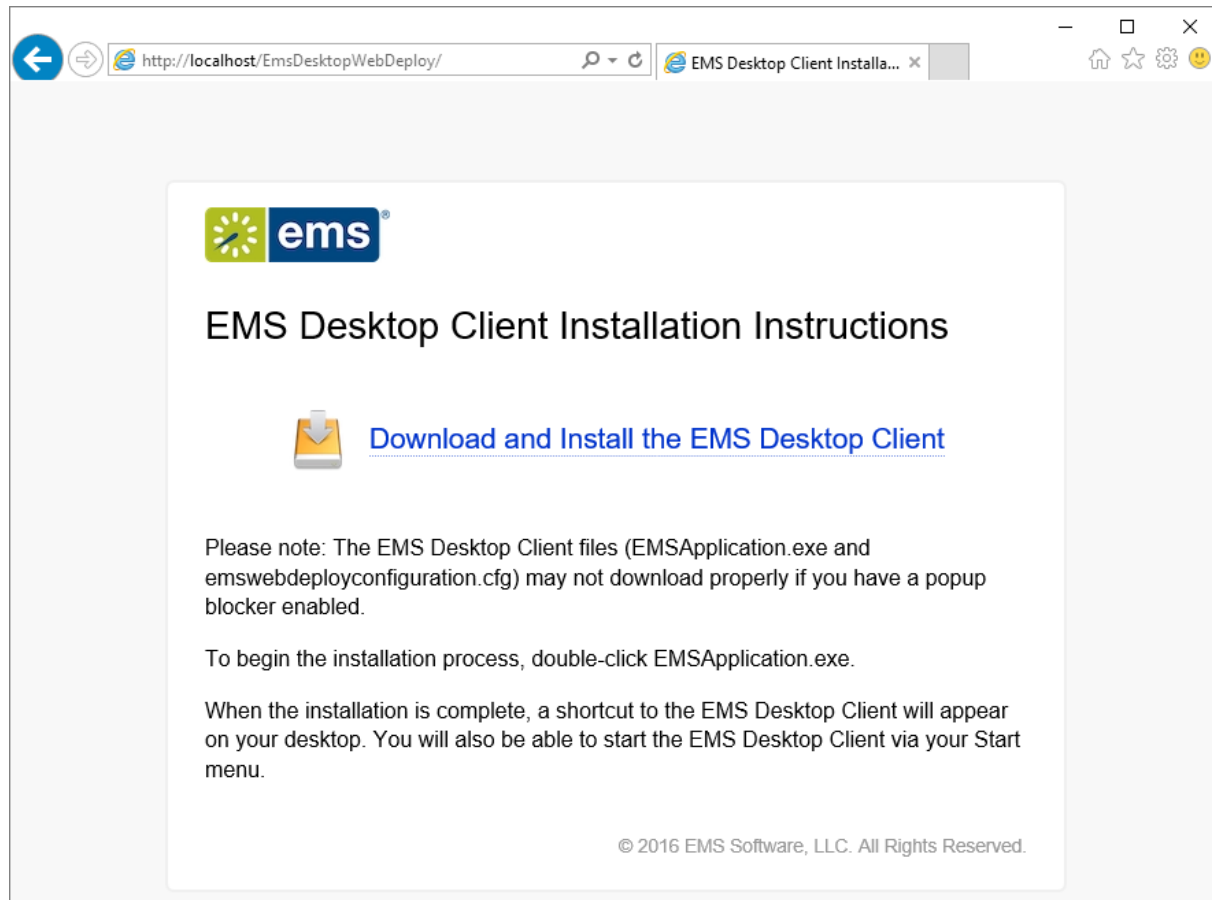
10. The *Ready to install* the EMS Desktop Client Web Deployment screen will appear. Click to install The EMS Desktop Client Web Deployment.
11. The *Completed the* the EMS Desktop Client Web Deployment *Setup Wizard* screen will appear. Click **Finish**.
12. After following the steps above, verify your EMS Desktop Client Web Deployment installation by opening a browser and entering the address:

`http://[ServerName]/EMSDesktopWebDeploy/` (replace [ServerName] with the name of your web server)

Note: The first time you launch the EMS Desktop Client Web Deployment, it may take a few extra moments for the website to display. If you encounter any issues, please contact Customer Support for assistance.

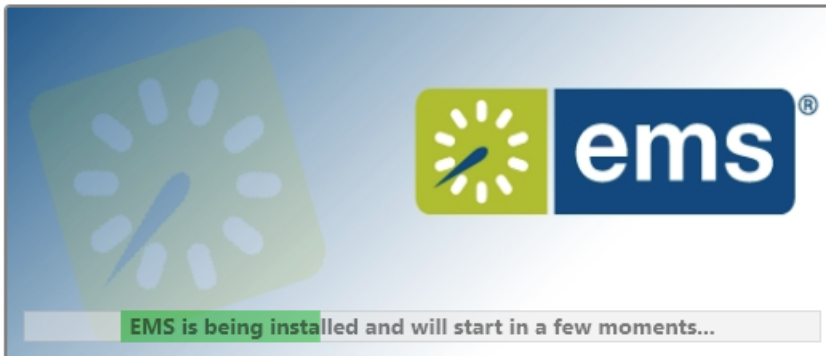
INSTALL EMS DESKTOP CLIENT (WEB DEPLOYMENT METHOD)

1. To install the EMS Desktop Client, users will need to access the URL from the EMS Desktop Client Web Deployment.



Note: If your browser has a popup blocker it should be disabled so that both the EMSApplication.exe and the configuration file can be downloaded.

2. Click **Download and Install the EMS Desktop Client** to download the **EMSApplication.exe**.
3. Run the **EMSApplication.exe**. This will install the client locally from the service:



Note: When you launch the EMSApplication.exe if it asks for the EMS Web Deploy configuration URL it will require entering the EMS Desktop Client Web Deployment URL:
`http://[ServerName]/EMSDesktopWebDeploy/` (replace [ServerName] with the name of your web server)

4. The EMS icon will be placed on the users desktop.

Notes: When a user launches the client it will check the EMS Desktop Client Web Deployment for a new version of the Client.
Clients installed through the EMS Desktop Client Web Deployment will not require administrative permission to install.

5. The system displays a message asking you to import your registration information.
Click **OK**.
6. The Registration screen appears. Follow the instructions outlined on the screen to import your EMS license key.

Registration

Import

This version of EMS requires a license key. Click the *Import* button to locate and import the license file (License.lic).

Instructions for Importing the EMS License Key

If you received an email from EMS regarding your license key:

1. Save the file (.lic) to your computer
2. Click the Import button. Locate and select your license file (.lic)
3. Click the OK button

If you DO NOT have your license key:

1. Log in to the online Support Center (www.dea.com)
2. Click on Software Downloads
3. Click the Email License File link next to your license. **Note:** You must be listed as a Primary Contact for your organization in order for this link to be enabled.
4. An email containing your license file will be sent to your email address. Follow the steps outlined above to import your license file.

Please note that if your license has an expiration date, this means your customer account with us has an outstanding balance. When your account is paid in full, we will send you a new, permanent registration. If your license has expired, please contact Sales at 800-440-3994 (press 0) or email sales@dea.com.

If you need help obtaining or uploading your license file, please contact Support at 800-288-4565 or email support@dea.com.

Change Database OK Cancel

Note: Your license key only needs to be imported once.

7. At the EMS log-in screen, type **admin** as both the User ID and the Password.
8. Click **OK**.

Note: When an EMS Client is installed through the EMS Desktop Client Web Deployment it will only be able to connect to the EMS instance received from the service.

SWITCHING BETWEEN ENVIRONMENTS FOR EMS DESKTOP CLIENT WEB DEPLOY

Users may want to switch their EMS Desktop Client between on-premise test and production environments, between on-premise and cloud hosted environments, or between cloud hosted test and production environments.

Notes: The EMS Desktop Client runs from the executable file located here: C:\Users\Username\AppData\Roaming\EMS2016\EMSApplication.exe. Because we can't point to any two of these environments with the same EMS executable Desktop Client file, users must clear the EMS registry entry and then point to the desired environment.

1. Clear the EMS registry entry by utilizing the “Reset EMS V44.1 Connection.reg” file. The content of this file is as follows:

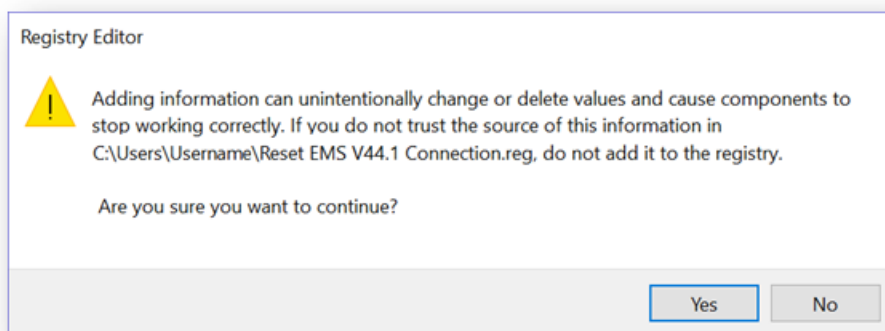
Windows Registry Editor Version 5.00

[HKEY_CURRENT_USER\SOFTWARE\EMS Software\Version 44.1]

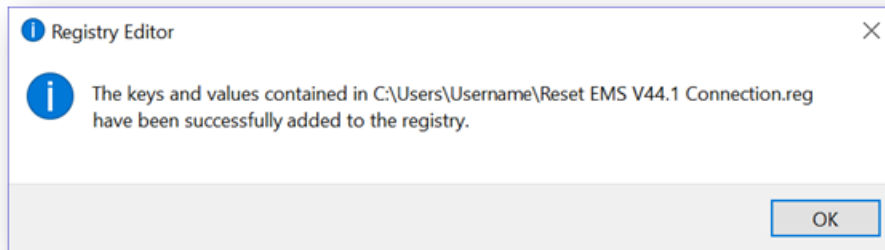
"AppFacadeUrl"=-

Note: This file can be shared with users via SFTP as most e-mail programs will block attachments with the .reg extension. Alternatively, the file can be renamed with a .txt extension and then renamed again on the user side back to .reg. Or users can copy the three lines above into a text editor and save the file as “Reset EMS V44.1 Connection.reg.”

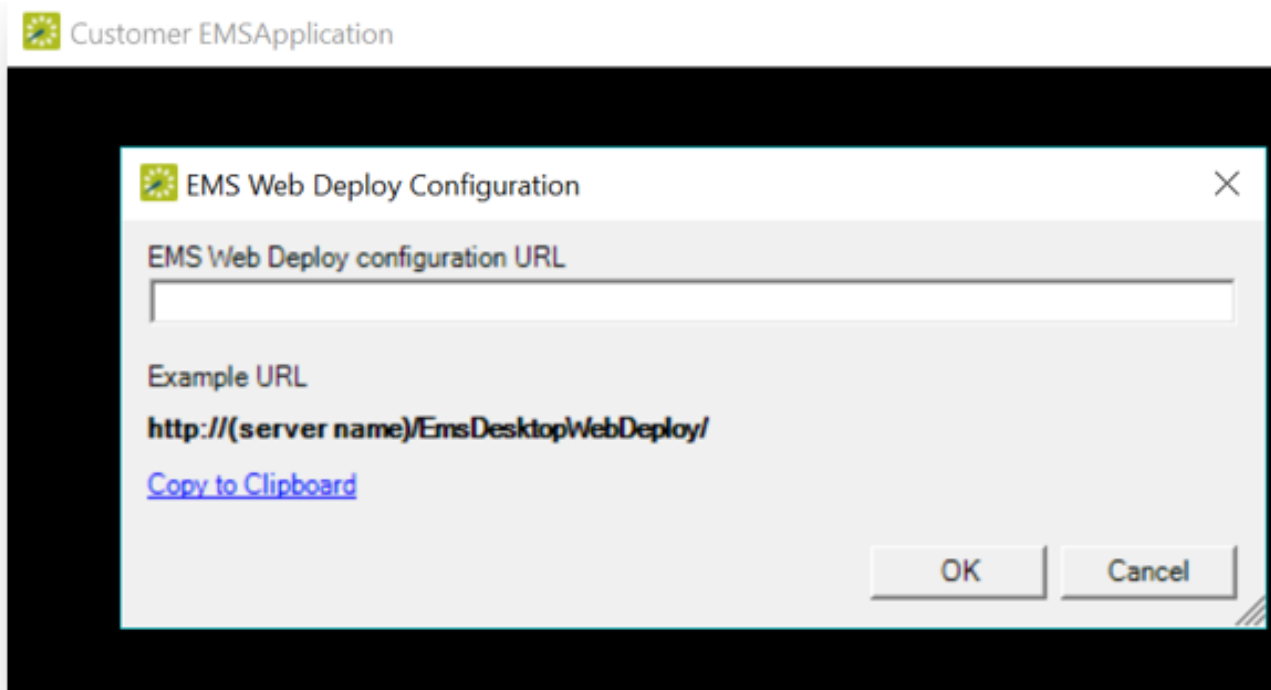
2. Save the registry editor file “Reset EMS V44.1 Connection.reg” on the hard drive of the EMS Desktop Client user and run it.
3. Click “Yes” to the following warning:



- Click “OK” to the second informational message:



- Launch the Desktop Client from the EMS Desktop Client executable file or EMS icon .
- Enter the EMS Desktop Client URL corresponding to the desired environment in the EMS Web Deploy Configuration window and click “OK”. This will launch the EMS Desktop Client for the specified environment.









7. Settings are saved from the last time the EMS Desktop Client was accessed.
8. These steps must be repeated only when a user wants to switch environments.

INSTALLING EMS DESKTOP CLIENT (CONVENTIONAL METHOD)

Follow these instructions to conventionally install the EMS Desktop Client on individual workstations.

PRE-INSTALLATION INSTRUCTIONS

1. Enable the Windows Component .NET 4.5 be on the client machine. The client must also have access to the EMS Server component (to the Desktop Client API, or directly to the EMS Database).
2. Obtain the Required MSI file (see [Obtain Installation Files for EMS Desktop Client](#) below).
3. Log in to the EMS Product Portal.
4. Navigate to the Software & Documents Library > New Releases and Patches > EMS Desktop Clients (Conventional and Web Deploy)

EMS Desktop Clients (Conventional and Web Deploy)				
Name & Description	Build	Published	Documentation	Download
EMS Version 44.1 Conventional Desktop Client Install - MSI file for installing or deploying the desktop client on individual Admin User Workstations.	44.1.20000.384	12/21/2017	 First Time Installation Instructions	Download
			 Upgrade Instructions	
			 User Manual	
EMS Desktop Client Web Deploy - This is the NEW Web Deploy Desktop Client. This allows your end users to install the Desktop Client themselves without requiring Admin Rights	44.1.20000.384	12/21/2017	 First Time Installation Instructions	Download
			 Upgrade Instructions	
			 User Manual	

Note: When you install, the application loads into the "Program Files", "Program Files (x86)", (or a custom directory that you specify). The first time the application is run by a user it will prompt the user to enter in the Server and Database. These entries are saved in the user's registry. The next time the application is accessed, it will not prompt the user for this information again. If upgrading from a previous version, the desktop client will search for the connection string from the previous version, and update the current version so the user is not prompted to enter that information.

SET THE SERVER PROGRAMMATICALLY

Option 1: Set the registry keys for the user

The Server and Database information are stored in Keys in the following location:

32bit Machines: HKEY_CURRENT_USER\Software\EMS Software\Version44.1

There will be two string values—one for the server and one for the database.

Option 2: Use switches in the executable

There are two switches that can be used with the applications executable (ems.exe). You can use these within a shortcut that you give to the user to specify the Server and Database for them.

```
/s=Servername.domain.local  
/d=DatabaseName
```

1. Replace "Servername.domain.local" with the Domain name of your Database Server and DatabaseName with the Database of the Database of EMS that the user needs to connect to.

For Example "C:\Program Files(x86)\EMS\EMS.exe /s=Servername.Domain.local /d=DatabaseName"

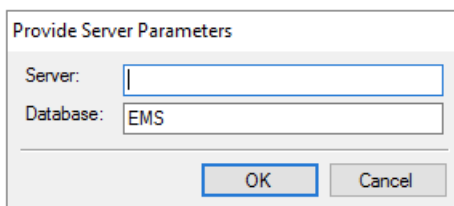
ESTABLISH NETWORK CONNECTIONS

The conventional EMS Desktop Client connects directly to the database server for all related transactions. The EMS Desktop Client may also need to connect

to the following services:

- » EMS Web Server
- » SMTP Server
- » LDAP Server

1. Verify that the prerequisite software has been installed.
2. Secure the **EMSCClient.msi**. (See [Obtain Installation Files for EMS Desktop Client](#) below.)
3. Run **EMSCClient.msi** on the client workstation. Follow the on-screen prompts. It is recommended that you accept the defaults.
4. Start **EMS** from the shortcut located on your desktop.
5. In the Provide Server Parameters dialog box, enter the name of your EMS Server and Database.

A screenshot of a Windows-style dialog box titled "Provide Server Parameters". It contains two text input fields: "Server:" which is empty, and "Database:" which contains the text "EMS". At the bottom of the dialog are two buttons: "OK" and "Cancel".

Provide Server Parameters	
Server:	<input type="text"/>
Database:	<input type="text" value="EMS"/>
<div>OK Cancel</div>	

6. Click **OK**.
7. The system displays a message asking you to import your registration information. Click **OK**.

8. The Registration screen appears. Follow the instructions outlined on the screen to import your EMS license key.

Registration

Import

This version of EMS requires a license key. Click the *Import* button to locate and import the license file (License.lic).

Instructions for Importing the EMS License Key

If you received an email from EMS regarding your license key:

1. Save the file (.lic) to your computer
2. Click the Import button. Locate and select your license file (.lic)
3. Click the OK button

If you DO NOT have your license key:

1. Log in to the online Support Center (www.dea.com)
2. Click on Software Downloads
3. Click the Email License File link next to your license. **Note:** You must be listed as a Primary Contact for your organization in order for this link to be enabled.
4. An email containing your license file will be sent to your email address. Follow the steps outlined above to import your license file.

Please note that if your license has an expiration date, this means your customer account with us has an outstanding balance. When your account is paid in full, we will send you a new, permanent registration. If your license has expired, please contact Sales at 800-440-3994 (press 0) or email sales@dea.com.

If you need help obtaining or uploading your license file, please contact Support at 800-288-4565 or email support@dea.com.

Change Database

OK

Cancel

Note: Your license key only needs to be imported once.

9. At the EMS login screen, type **admin** as both the User ID and the Password.
10. Click **OK**.
11. You are now ready to begin using the system. You can begin defining your data following the instructions in [Setting Up EMS](#) or you can install to additional client computers by repeating **steps 1-6** above.

OBTAIN INSTALLATION FILES FOR EMS DESKTOP CLIENT

The latest release of EMS can be downloaded from the online Support Center.

1. Log into the [EMS Customer Portal](#).
2. Click the Software and Docs library link.
3. Click the 44.1 Releases & Patches link.
4. Download the following files. (Required for both first time installations and upgrades.)
 - » EMS License (License.lic)—License file required to activate your EMS software.
 - » EMS Server Install (EMS.ServerInstall.exe)—File used to install or upgrade the EMS databases on your Microsoft SQL Server.

- » EMS Client (EMSCClient.msi)—File used to install or upgrade the EMS desktop application.
- » EMS Email Notification (EMSEmailNotificationSetup.msi)—File used to install the EMS Email Notification service (an optional system component.) See Installing the EMS Email Notification Service.
- » EMS Campus Auto Sync Service (EMSCampusAutoSyncSetup.msi)—EMS Campus only. File used to install the optional EMS Campus Auto Sync Service (an optional system component.) See Installing the EMS Campus Auto Sync Service.

CHAPTER 4: Upgrade Considerations for EMS Desktop Client V44.1

When planning your upgrade to the EMS Desktop Client V44.1, be sure to take the following changes in functionality into consideration.

EVERYDAY USER PROCESS TEMPLATE CONFIGURATION

After you upgrade your system, all [everyday user process templates](#) will be set to *Enabled for Web Application*. This means that these templates will be potentially available to everyday users of the EMS Web App (under the *Create a Reservation* menu). If you would prefer that a template is only available to users of EMS for Outlook and/or EMS Mobile App, you must disable the setting *Enabled for Web Application* under the process template's configuration (*Configuration > Everyday User Applications > Everyday User Process Templates > Edit the template > Process Template* tab).

The following process template settings will also persist after upgrade:

- » *Allow Invitations* = [Enable Integration to Microsoft Exchange](#)
- » *Outlook* = [Enable EMS for Outlook](#)
- » *Enable for Mobile Device* = *Enable for EMS Mobile App*.

EVERYDAY USER WEB MENU CHANGES

- » After you upgrade, all everyday user process templates will move under the *Create a Reservation* parent menu.
- » All custom web menus (*i.e.*, any non-system-generated web menus such as *Browse*, *Create a Reservation*, *Help*, etc.) will move under the *Links* menu. Administrators can change the sequence of these custom menus and/or move custom menus to the *Help* menu by changing the web menu configuration (*Configuration > Everyday User Applications > Web Menus*).

ADDITIONAL DEFAULT SETTINGS

- » If the existing [Default Setup Type](#) for a room does not match a Setup Type configured as *In Use*, *Default Setup Type* will revert to *(none)*.

ADDITIONAL SYSTEM CHANGES

- » [TMS and Polycom DLL](#) access will be controlled by both EMS Desktop Client user permissions and licensing. In order for a user to access the desktop client menu for TMS or Polycom settings, an administrator must apply these settings to the user or the user's template under *System Administration > Security > Users* or *User Templates*.

NO CONSIDERATIONS NEEDED

The following items, which are typically affected by EMS upgrades, are not affected for this release.

- » Any label changes within the desktop client
- » Parameter Tab/Area/Name Label Changes or Reassignments
- » New functionality introduced with V44.1

CHAPTER 5: Upgrade Instructions

In order to upgrade EMS, you must perform two operations:

- » [Upgrading the EMS Server Components](#)
- » [Upgrading Individual Workstations](#)
 - » [EMS Desktop Client Web Deployment](#)
 - » [Installing Additional EMS Services](#)

Note: If you are upgrading from a version of EMS released prior to server version 35, please contact [Customer Support](#).

Tip: You can see a summary of all EMS Updates for V44.1 [here](#).

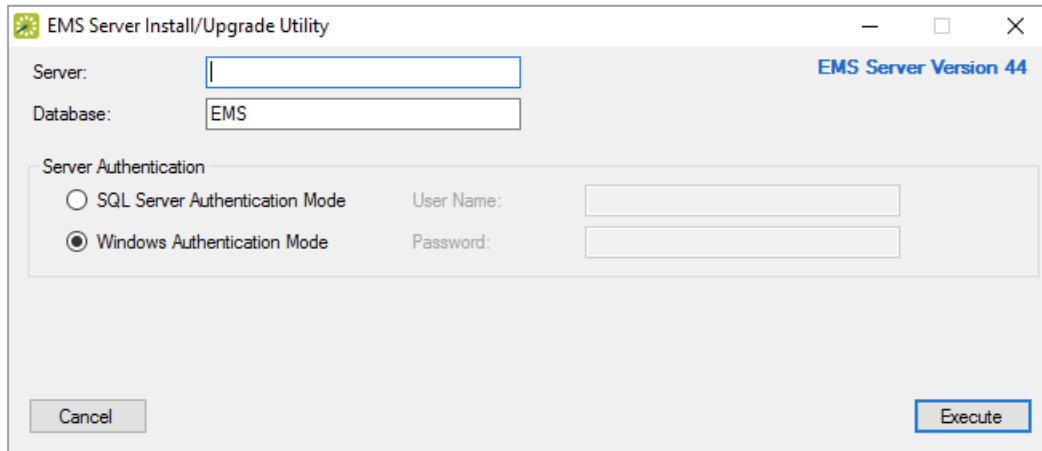
To learn more about our release update process, see [Updating to the Latest Version of EMS](#) and [How Are EMS Applications Updated](#).

UPGRADING THE EMS SERVER COMPONENTS

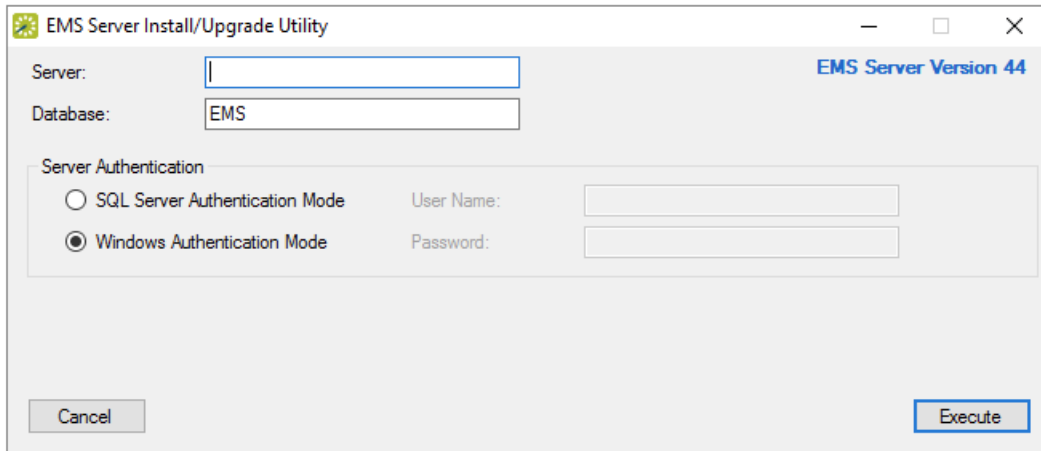
The server upgrade process will upgrade the EMS databases on your MS SQL Server. If you are upgrading from EMS Enterprise 4.x or below, your existing **EMSEnterprise_Master** database (which contains licensing information) will be replaced by a new **EMS_Master** database, and your existing **EMS** database will be upgraded to the current version.

Note: A *Microsoft SQL Server SA* level account will be required to execute the database upgrade process.

1. Download the **EMS.ServerInstall.exe** file from the [EMS Customer Portal](#).
2. Using **SQL Server Management Studio**, back up your existing EMS databases.
3. Run **EMS.ServerInstall.exe**. (This .exe can be run from any PC that has access to your database server.)



4. In the Server field, enter the name of the MS SQL Server.
5. In the Database field, enter the name of the EMS database you wish to upgrade.
6. In the Server Authentication area, specify your MS SQL Server authentication credentials. If SQL Server Authentication Mode is selected, you will be required to specify a User Name and Password.
7. Click the **Execute** button. A Backup Database popup will appear.
8. Click **Yes** to acknowledge that you have backed up your EMS databases and it is OK to continue. You have completed the upgrade process for the server portion of EMS. Next you will upgrade individual workstations.



Note: For information on installing the optional Email Notification Service or the EMS Campus Auto Sync Service (EMS Campus only), see [Installing or Upgrading the EMS Email Notification Service](#) and/or [Installing or Upgrading the EMS Campus Auto Sync Service](#).

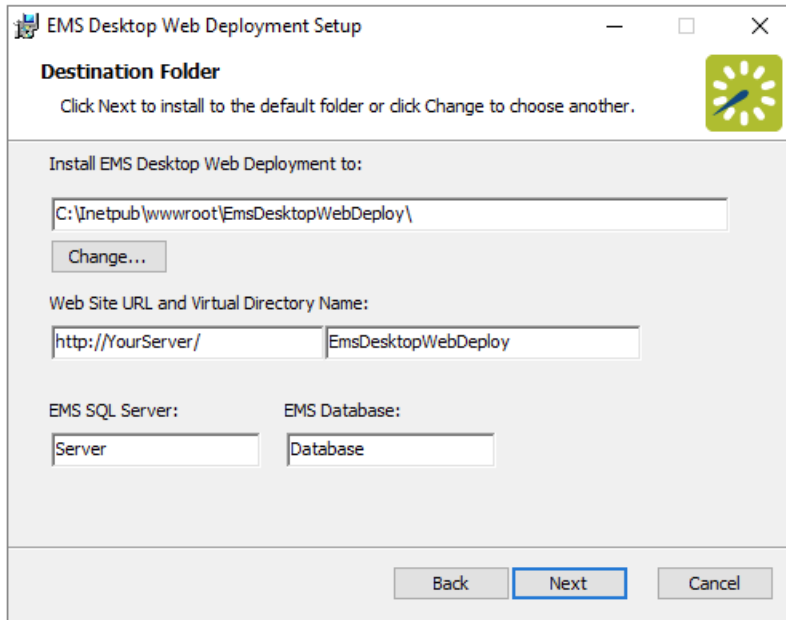
UPGRADING INDIVIDUAL WORKSTATIONS

Follow the procedures below to upgrade individual workstations to EMS Desktop Client.

EMS DESKTOP CLIENT WEB DEPLOYMENT

Notes: Before beginning the installation process, please install or upgrade your EMS databases. To learn more about EMS Desktop Client Web Deployment, **See Also:** EMS Desktop Client Web Deployment Decision Guide. If you choose not to use this option, skip to the [Conventional Desktop Client Installation](#) section.

1. Manually *uninstall* any previous versions of EMS Desktop Client Web Deployment on your web server.
2. Verify that the [prerequisite software](#) has been installed.
3. Download the **EMSDesktopWebDeploySetup.msi** file onto the web server that will be running EMS Desktop Client Web Deployment.
4. Run the **EMSDesktopWebDeploySetup.msi** as an administrator.
5. The first screen welcomes you to the EMS Desktop Client Web Deployment Setup Wizard. Click **Next** to begin the installation process. The *Destination Folder* dialog will appear.



6. Select the destination folder where you wish to install the EMS EMS Desktop Client Web Deployment. The installation process will create a new physical directory on your web server based on the destination folder path you entered (“EmsDesktopWebDeploy” in the example above.).
7. In the **Web Site URL and Virtual Directory Name** fields, enter your SQL instance name.
8. In the **EMS Database** field, enter your Database Name: the Virtual Directory Name will default to the destination folder specified in Step 6. It is recommended that you keep the default setting. The installation process will create a virtual directory on

your web server based on the virtual directory entered (“EMS Desktop Web Deploy” in the example above.)

9. If you will be using a Load Balancer with the EMS Desktop Web Deploy application, enter the Name or IP Address of your server in the **EMS SQL Server** field.
10. Click **Next**.

Note: The EMS Desktop Client Web Deployment should *not* be installed in the same virtual directory as other EMS web-based products OR under a site running another version of the EMS Desktop Client Web Deployment.

11. The *Ready to install* the EMS Desktop Client Web Deployment window will appear. Click **Install**.
12. The *Completed EMS Desktop Client Web Deployment Setup Wizard* window will appear. Click **Finish**.
13. After following the steps above, verify your EMS Desktop Client Web Deployment installation by opening a browser and entering the address:

http://[ServerName]/EMSDesktopWebDeploy/ (replace [ServerName] with the name of your web server)

Note: The first time you launch the EMS Desktop Client Web Deployment, it may take a few extra moments for the page to display. If you encounter any issues, please contact [Customer Support](#) for assistance.

INSTALLING ADDITIONAL EMS SERVICES

All optional EMS features, services, and add-ons are listed [here](#). You may need to install or upgrade additional features.

CONTACT CUSTOMER SUPPORT

- » **Option 1 (Recommended):** Search the [Knowledge Base](#) available in the [EMS Support Portal](#).
- » **Option 2:** Submit a [Case](#) directly via the [EMS Support Portal](#).
- » **Option 3:** Email support@emssoftware.com.
- » **Option 4 (Recommended for critical issues only):** Phone (800) 288-4565

Important: If you do not have a customer login, register [here](#).

CHAPTER 6: Downgrade the EMS Desktop Client Web Deploy

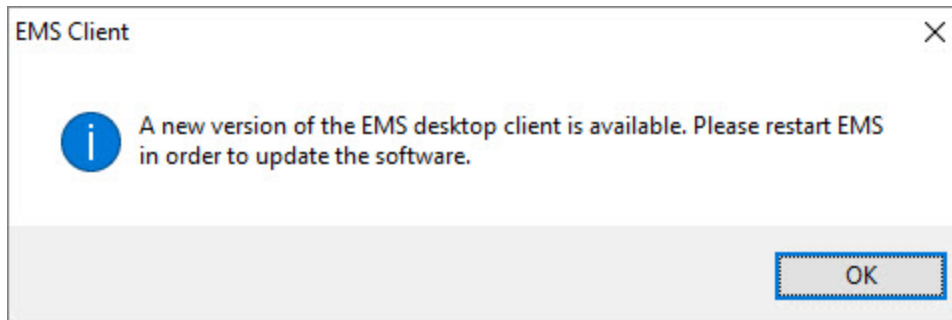
When determining whether your organization wants to revert to an older version of the EMS Desktop Client, follow the steps below.

Note: You cannot roll back an EMS Patch once it has been applied. Please read the release notes each month to determine if an upgrade is necessary for your organization. As a best practice, it is recommended that your system remain current on EMS Desktop Client builds and patches.

1. Uninstall the newer version of the EMS Desktop Client Web Deploy.
2. Run the installer for the older version of the EMS Desktop Client Web Deploy.

Notes: Once the older version of the EMS Desktop Client Web Deploy is installed, users will need to close EMS before they will be downgraded to the older version of the software. Any user who has an individual install of the EMS Desktop Client will also need to have that individual install rolled back, by uninstalling the EMS Client and installing the older version.

3. After the users' EMS Desktop Clients have been downgraded, they will receive a message stating there is new client software available:



If you wish to avoid this prompt from presenting to your users, after installing the older version of the EMS Desktop Client Web Deploy, run the following script against the EMS database:

Update tblServerVersion

```
set ClientVersion = NULL
```

CONTACT CUSTOMER SUPPORT

If you have further questions, please contact Customer Support.

- » **Option 1 (Recommended):** Search the [Knowledge Base](#) available in the [EMS Support Portal](#).
- » **Option 2:** Submit a [Case](#) directly via the [EMS Support Portal](#).

- » Option 3: Email support@emssoftware.com.
- » Option 4 (Recommended for critical issues only): Phone (800) 288-4565

Important: If you do not have a customer login, register [here](#).

CHAPTER 7: Installing Custom Reports in EMS Desktop Client

If your organization has a custom developed report that needs to be deployed there are two methods, one through the EMS Desktop Client Web Deploy and another through the EMS Desktop Client Install.

EMS DESKTOP CLIENT WEB DEPLOYMENT

1. Obtain your organization's Custom Report DLL and SQL Overlay script from support.
2. Locate the EMS Desktop Client Web Deployment location on the Web Server. Typically this is C:\inetpub\wwwroot\EmsDesktopWebDeploy\.
3. Open the Installer folder and locate the EMS.zip file.
4. Unzip the EMS.zip file to a location on the PC.
5. Place the Custom Report DLL in the EMS folder.
6. Zip the new EMS folder containing the DLL and name the zip file EMS.
7. Place new EMS.zip file containing the Custom Report DLL back in the Installer folder.

EMS DESKTOP CLIENT INDIVIDUAL INSTALL

1. Obtain your organization's Custom Report DLL and SQL
2. Overlay script from support. Locate the local install of the EMS Client. Typically it is: C:\Program Files (x86)\EMS\.
3. Place the Custom Report DLL in the EMS folder.