



PRODUCT
Quick Start Guide



SmartView™ EMS Quick Installation Guide

Introduction

This guide will describe in fewer details the installation procedures for SmartView™ EMS (Element Management System). The installation media may be a DVD or an electronic download ZIP that has been extracted.

Pre-requisites

This section will outline the basic hardware and software requirements for SmartView™ EMS. Please refer to the SmartView™ User Manual for specific appendices on installing components or for troubleshooting. SmartView™ EMS server is designed to be run in a 24/7 environment. Carefully observe the hardware and software recommendations.

Table 1-1 lists the Hardware recommendations and Software programs necessary for EMS Server/Client.

Smartview Component	Hardware (minimum requirement)	Software	Operating System (64 bit)
SmartView Server	CPU: Intel i5 2.5G RAM: 16G HD: 120GB Graphics: 1024x768	JAVA (JRE included) MS-SQL Server 2008/2014 SmartView Server	Windows Server 2012/2014/2016. Windows Vista (64) Windows 7/8/10 ** (professional)
SmartView Clients	CPU: Intel i5 2.0G RAM: 8G HD: 10GB Graphics: 1024x768	JAVA JRE. SmartView Client	Windows Server 2008/2012/2014. Windows Vista Windows 7/8/10
SmartView All-In-One Server (SmartView, SQL Server & client on one machine)	CPU: Intel i7 3.0G RAM: 32G HD: 250GB Graphics: 1024x768 or better	JAVA (JRE included) MS-SQL Server 2008/2014 SmartView Server/Client	Windows Server 2008/2012/2014. Windows Vista Windows 7/8/10 ** (professional)

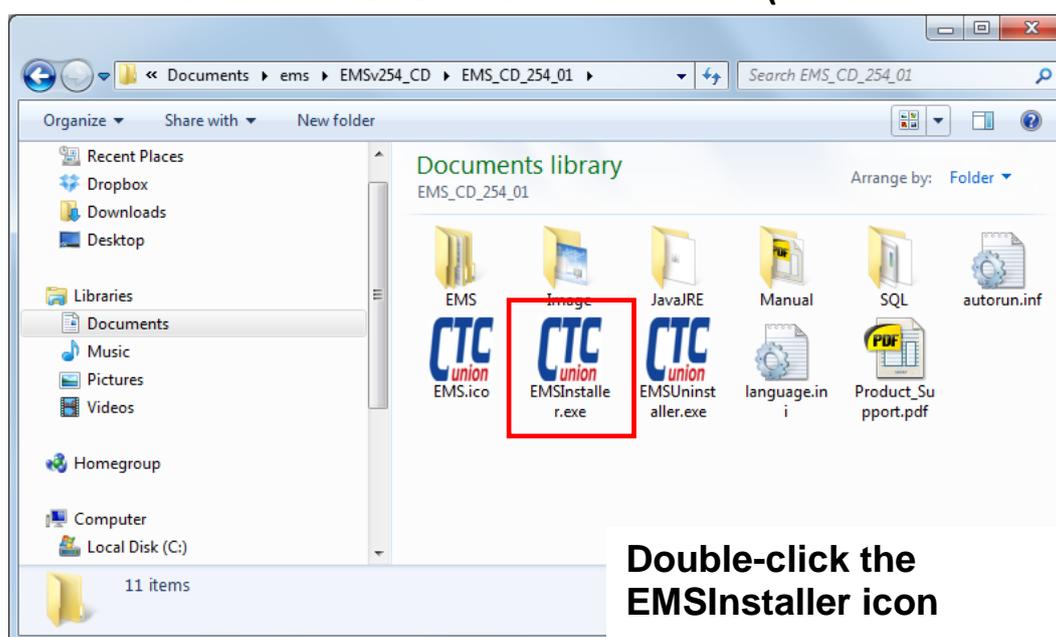
Table 1-1 Hardware & Software requirements for EMS components

** Note: It is recommended EMS run under administrator group account (required for Win 8/10)

Notice : Target machine should have minimal software installed, no third party anti-virus and no other SNMP software, which might conflict with SmartView's use of SNMP ports 161 and 162. Do a fresh reboot before installing SmartView.

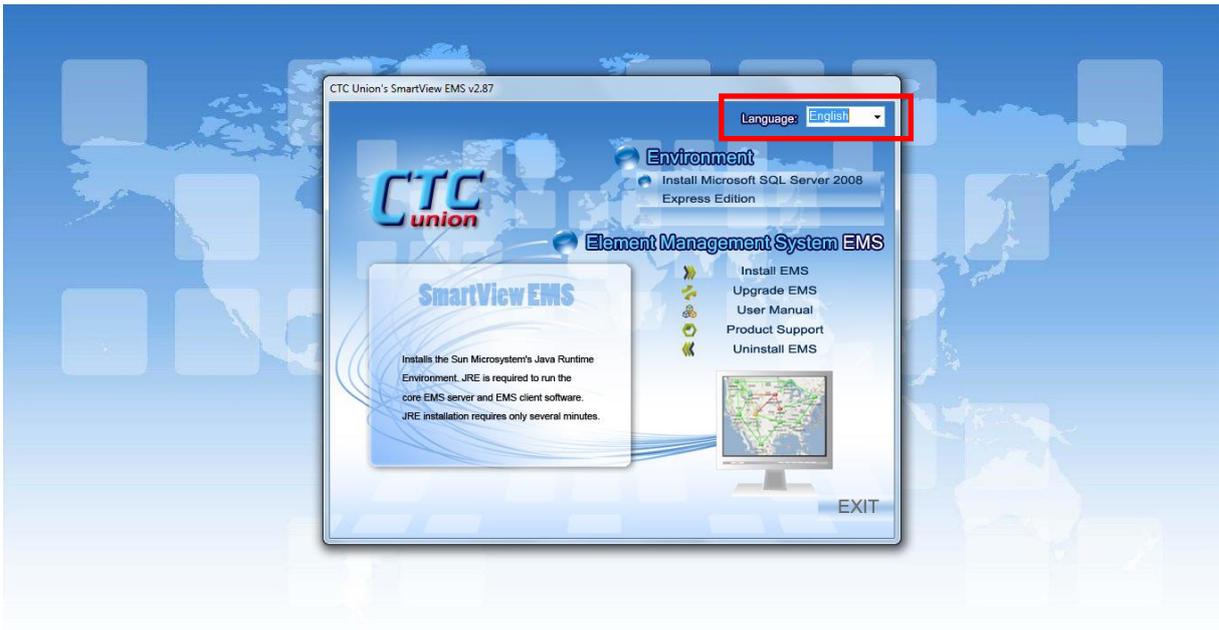
Installation

Step 1 : Insert SmartView install DVD-ROM into PC's drive (or extract the downloaded zip)



Screen 1 : Installation folder, ready to install EMS.

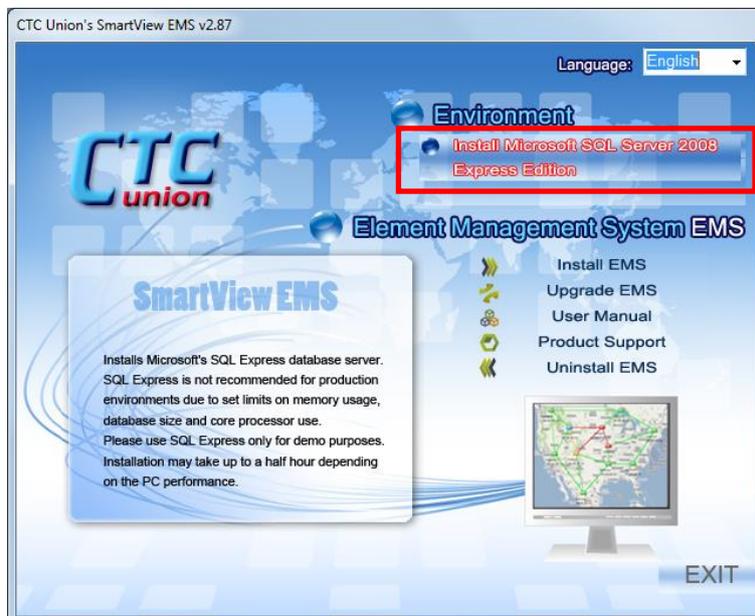
Step 2 : Select Language



Screen 2 : The installation is available in English or Chinese language via the Language pull-down selector.

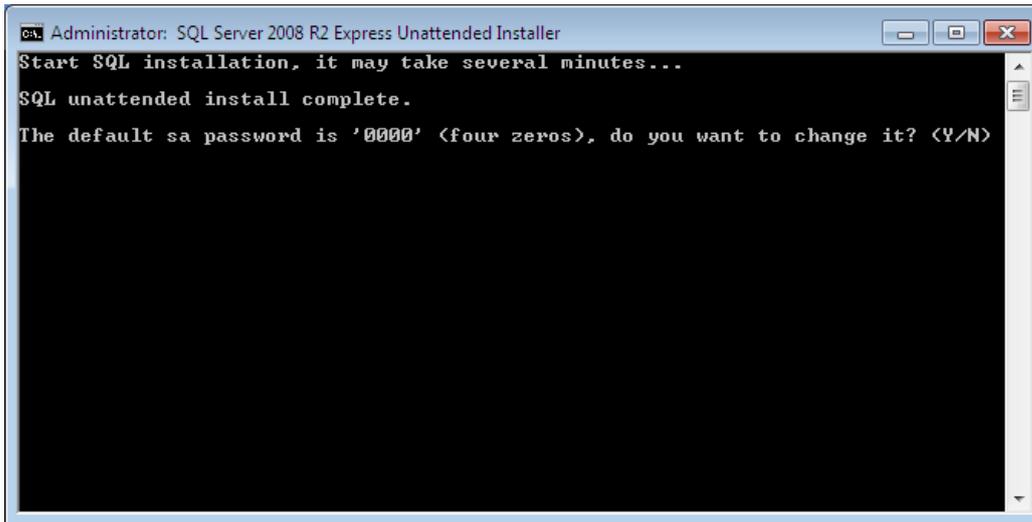
Step 3 : Install **Microsoft** MS-SQL Server

Note: The DVD contains both MS-SQL 2008 and 2014 64bit Express versions. Windows 7 should use 2008, while Windows 10 and Win Server 2016 must use MS-SQL 2014.



Screen 3 : Click on "Install Microsoft SQL Server 2008 Express Edition" just one time.
(The Windows 10 automatically will use MS-SQL 2014 Express)

Step 4 : Wait!! MS-SQL installation may take 10-20 minutes depending on PC's performance



Screen 4 : Unattended Installer batch program screen

Following successful installation, the installer will ask if you want to keep the default SA password of '0000' (four zeros). If you do not wish to change the password, answer "n" or "N". If you wish to change, answer "y" or "Y" and then enter the new password when prompted and remember it for later. Finally, press any key to finally exit the SQL installation batch program.

Exit the EMSInstaller to allow the Path for MSSQL to be refreshed.

Step 5 : Install SmartView™ EMS

Restart the installer (right-click and select 'Run as administrator') and continue.



Screen 5 : Click Install EMS just once.

Step 6 : Set install path and SmartView Language version



Screen 6 : English version example.

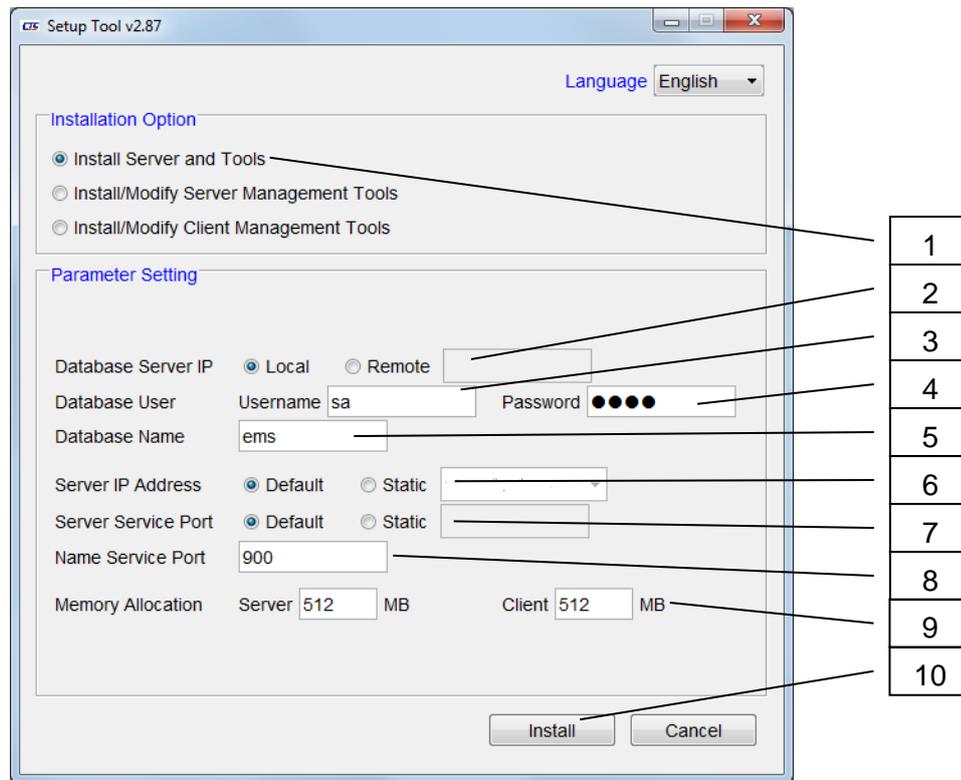
Browse to Install Folder The default installation folder on 64bit Windows should be in "C:\Program Files". SmartView™ must be run under the 'administrator' account, take ownership of EMS folder and/or adjust User Account Control (UAC) in order to run or be updated properly.

When SmartView™ runs on Win 7/8/10 under a user other than 'administrator' or in a "Home Edition" of Windows, installing EMS into the user's space will avoid directory ownership and User Account Control (UAC) issues that would otherwise require manual correction. In this case, we suggest installing SmartView™ into the logged in user's "My Documents" in the "EMS" folder or in on a second partition or non-system drive. Change the install directory by clicking the "Browse" button and browse to "My Documents" to place the EMS there.

Set the Language Choose English or Chinese. Clicking the choice will immediately start the installation.

This portion of the install will copy the required files to the PC, setup the desktop start icons for server and client.

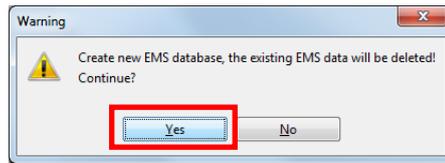
Step 7 : SmartView™ Server Setup Tool



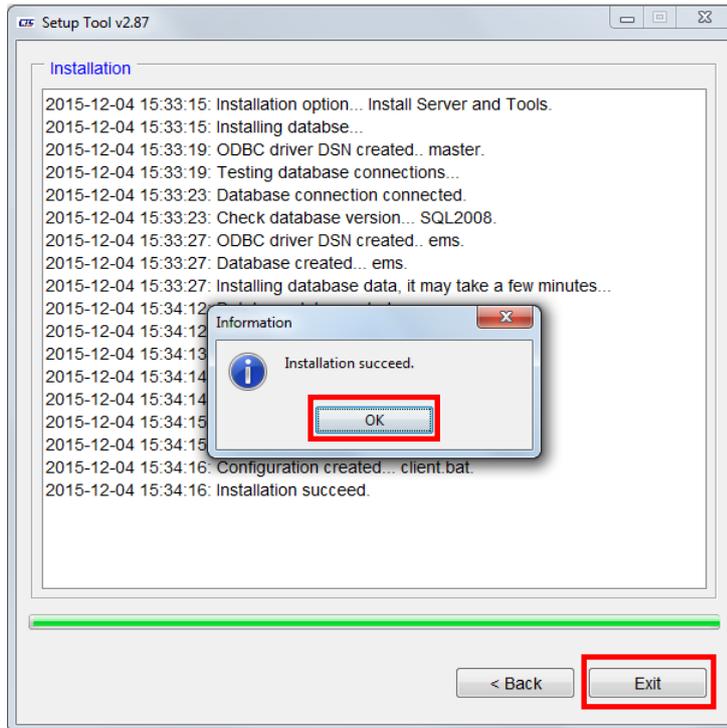
Screen 8 : The Setup Tool JAVA Applet.

1. On a first install, be sure to select "**Install Server and Tools**". (Leave it)
2. The "**Database Server IP**" default is "Local". This means that SmartView EMS will connect to the Database server via localhost (127.0.0.1). (Leave it)
3. The SQL "**Database User**" default is "sa". (leave it)
4. The password for 'sa' will be four zeros (**0000**). (if not changed during SQL server installation, leave it)
5. The default SQL "**Database name**" is "ems". We recommend you leave it "ems".
6. The "**Server IP Address**" can be selected from either "Default" or "Static" settings. "Default" uses the first network interface in the PC's hardware. If the server has multiple NIC or multiple IP addresses, select the "Static" radio button and select the static IP address the EMS server from the pull-down menu.
7. The "**Server Service Port**" can leave as "Default". (In this case the port will be random.)
8. The default CORBA "**Name Service Port**" connection port is '900'. (Leave it)
9. The "**Memory Allocation**" default parameters may be left as is or increased in 64MB increments. (the minimum default is now 512MB for both Server and Client.)
10. When all the settings are correct, click the "Install" button to start the installation.

Step 8 : Proceed with DB creation

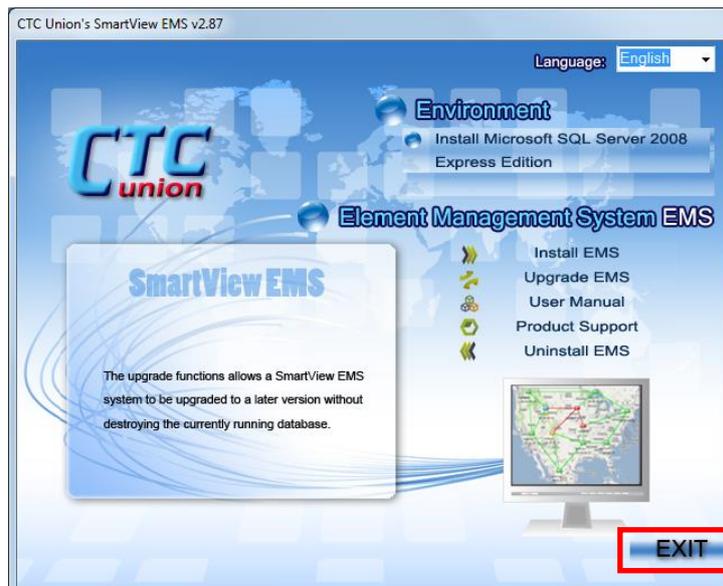


Click "Yes" to create or overwrite the EMS database for this new installation.



Click the "OK" button after the EMS has been installed successfully and then click "Exit".

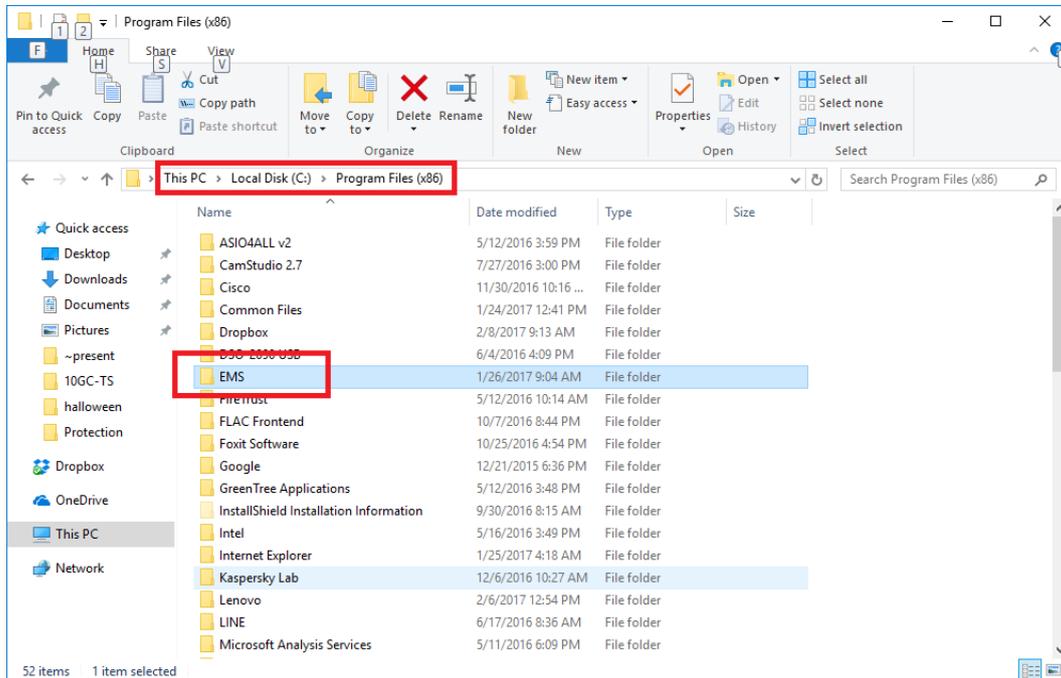
Step 9 : Exit SmartView™ EMS Installer



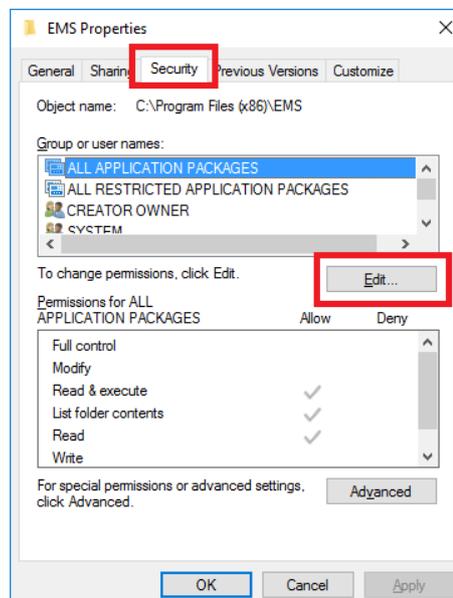
Congratulations!! SmartView™ EMS Server is now installed.

Step 10 : Permissions on Win 7/8/10

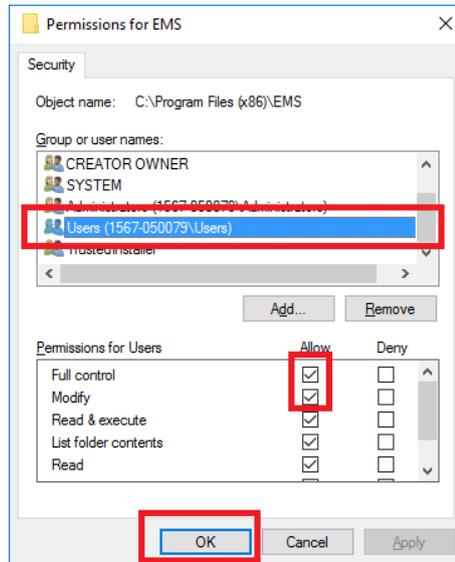
Due to stricter permissions introduced on these OSs it is necessary for the user to take full control of the EMS program folder so that configuration files can be saved there as well as upgrades performed via batch programming. Here are the steps to take control of the folder.



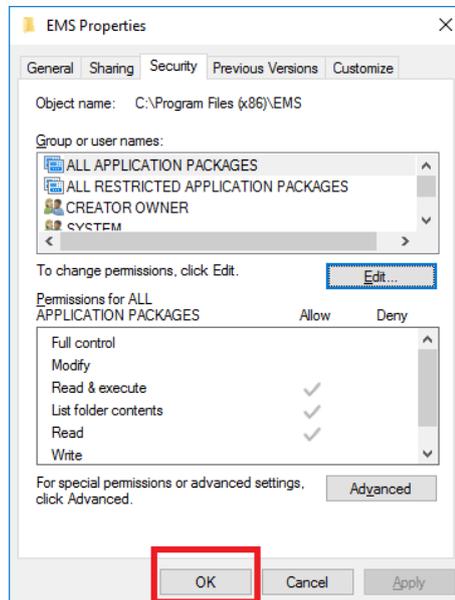
Using Explorer, browse to the Program Files folder on the system drive (usually the C drive). Use the "Right" mouse button to click on the "EMS" folder. Select the "Properties" item (from the bottom).



Select the "Security" tab and click the "Edit" button.



Select the Users and allow 'Full control', then click [OK].

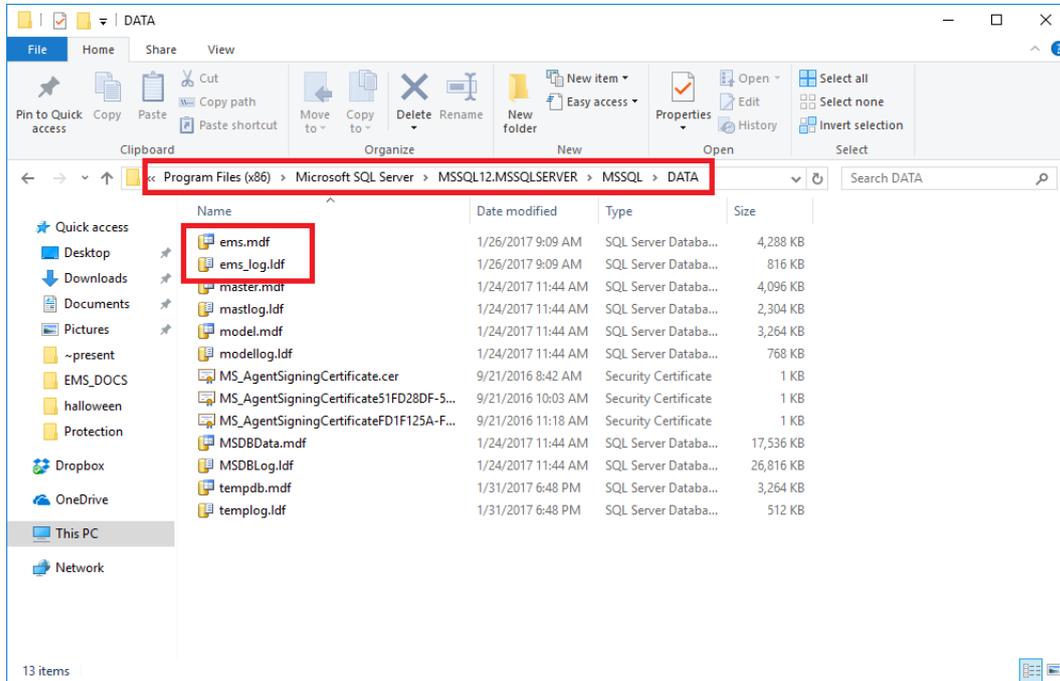


Finally, click [OK] again and the permissions are now fixed.

Step 11 : Apply Upgrade Patches

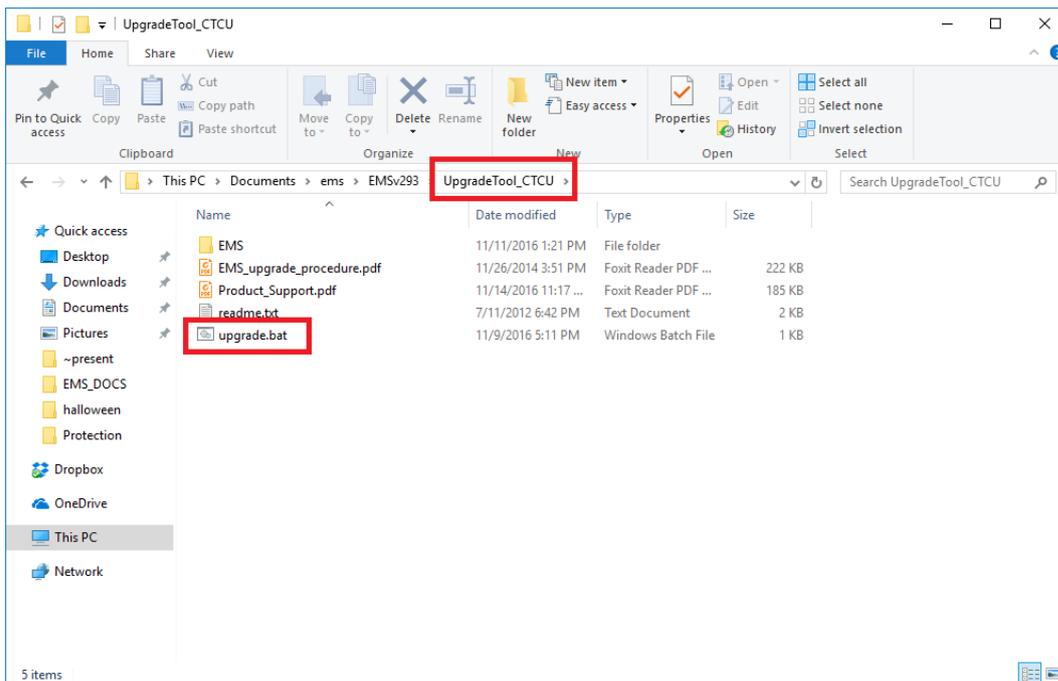
Smartview is constantly being refined and adding support for CTC Union's latest products. After a DVD initial installation, any system can be quickly upgraded to the latest version and patch level.

Before upgrading, all clients must logout, any local client applet closed and then stop and close the EMS server window. We also highly recommend making a backup copy of the ems database and of the EMS folder located in the Program Files folder before doing the upgrade. If anything should go wrong, the previous version can be quickly recovered by copying back the database and the EMS folder.

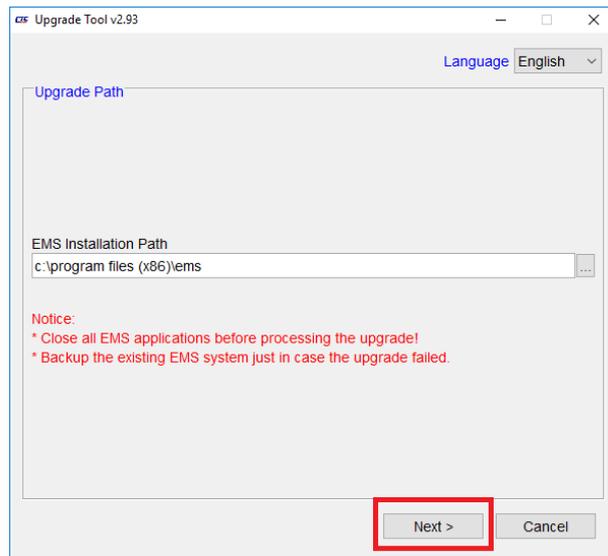


Location of database files

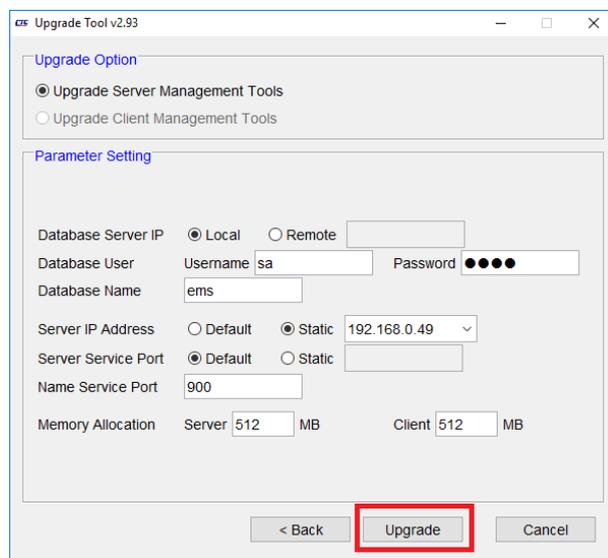
Unzip the downloaded zip upgrade file, then enter into the UpgradeTool_CTCU folder.



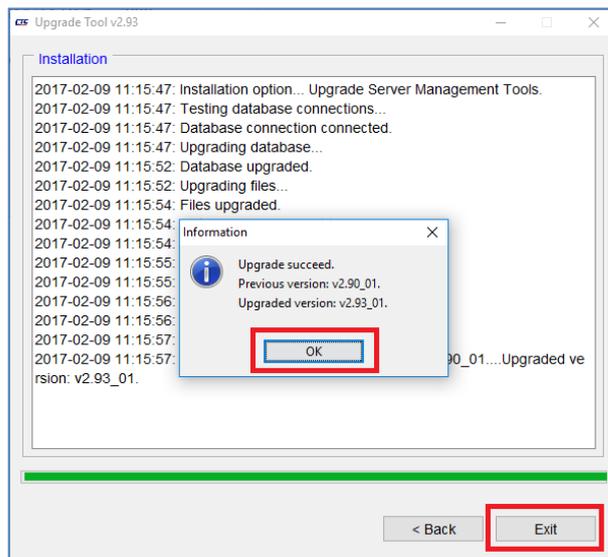
Double click the 'upgrade' file.



The upgrade tool applet should start and the EMS installation path automatically discovered. Click [Next].



The settings should already be correct, but if not correct them. Click [Upgrade].



The upgrade information will be shown. Click [OK] and then click [Exit]. EMS has been successfully upgraded.

Refer to the **SmartView™ EMS User Manual** for operation of the management software.

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