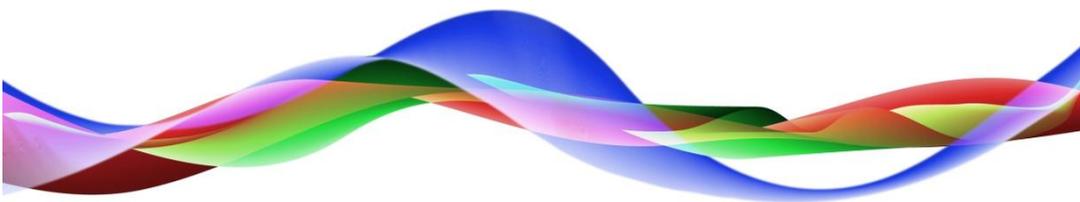


02 Installation and Update

vsmStudio

Manual



Legend



Please note: This information is of prime importance.

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1 Software Installation

1.1 System Requirements

1.1.1 vsmStudio Server

The following server specifications are required for the installation of vsmStudio:

- Processor: Xeon Quad, 2 GHz
- Memory: 2 GB RAM
- Hard Drive: 2 x 160 GB HDD
- Operating System: Windows Server 2003 or 2008.

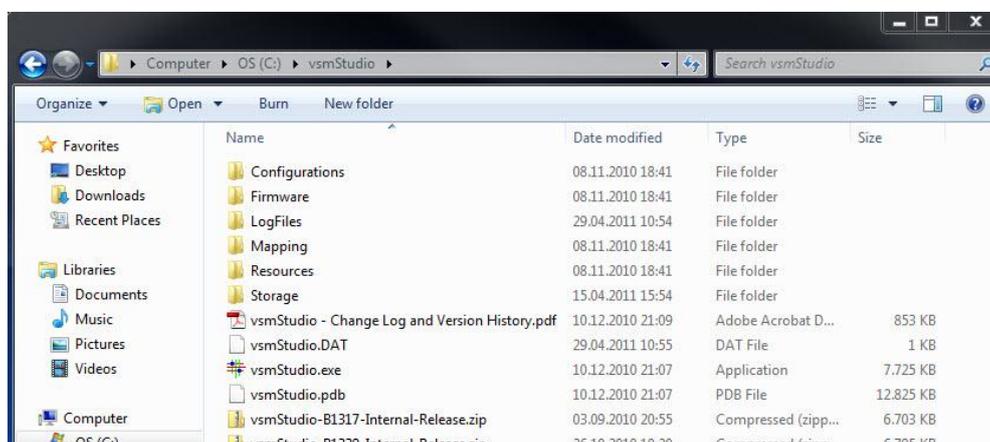
1.1.2 vsmStudio Workstation

The following specifications are required for the installation of vsmStudio on a PC or a workstation:

- Processor: Core2 Duo, 2 GHz
- Memory: 1 GB RAM
- Hard Drive: 1 x 160 GB HDD
- Video Card: directX9-ready video card (nVidia Quadro FX, GeForce 6600+ or ATI Radeon)
- Operating System: Windows XP, Vista or Windows 7 SP3.

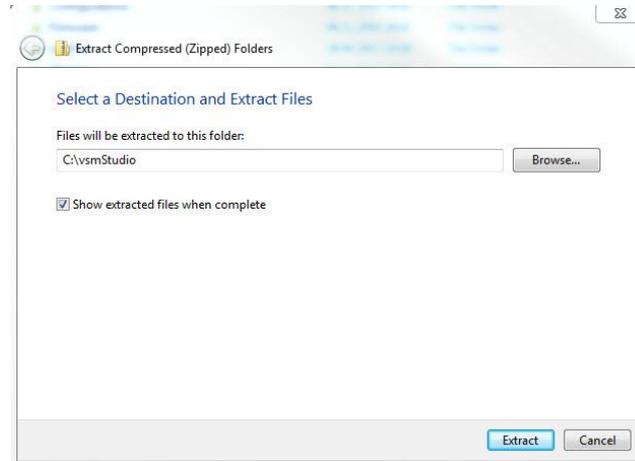
1.2 Installation of Demo Software

The demo software is available for download as .zip file or on a CD. A folder titled *vsmStudio* must be created on drive C as destination. Copy the .zip file into the folder.



vsmStudio folder on C drive

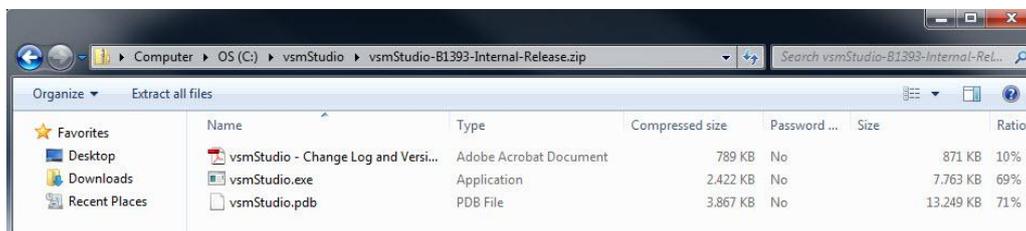
Unpack the .zip file in the same folder (C:\vsmStudio).



Unpacking of .zip file into the vsmStudio folder

The folder contains the following three files:

- *vsmStudio – Change Log and Version History.pdf*, documenting the changes made to the older versions of the software
- *vsmStudio.exe*, the actual vsmStudio file and
- *vsmStudio.pdb*, the library that generates dump files.



vsmStudio update folder

Start the software by executing the *vsmStudio.exe*.

2 Software Registration

After the initial start of vsmStudio, the following prompt will provide further information to register the software license:



License registration instructions

To register your software, select the option registration under the menu tab. The following registration window will open:



Registration window

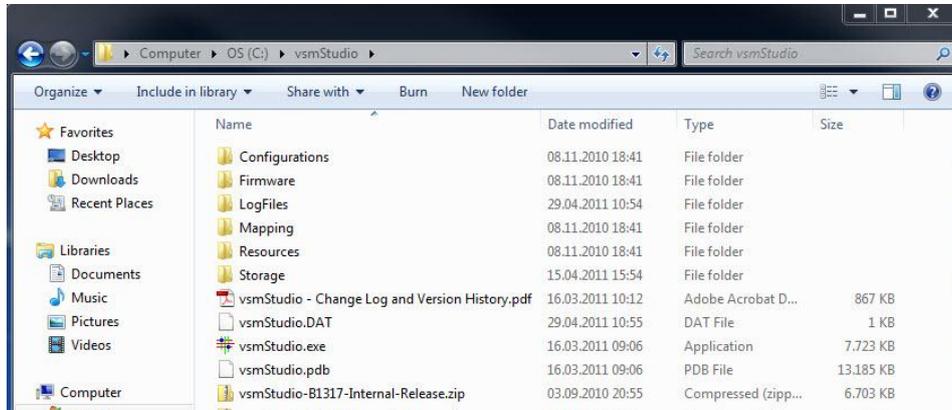
The system ID shown in the top row must be provided to the responsible sales partner together with the following information:

- Name of end customer
- Project or installation name
- Name of system integrator
- Server name
- On-site contact for technical questions
- If vsmPanel licenses are included in the order: number of vsmPanel licenses used
- Number of control ports (see chapter 8).

The registration key will be provided after the aforementioned information has been fully submitted. Enter this combination in the blank line of the registration window shown above. This concludes the registration process – the software can now be used without any limitations.

3 VSM Folder Structure

The folder vsmStudio on drive C is automatically created with the following folder structure:



VSM folder structure

3.1 Folder Configurations

Name	Größe	Typ	Attribute
Remote		Dateiordner	
MultiServer.bak	43.126 KB	BAK-Datei	A
MultiServer.B1184.vmcc	42.564 KB	VMCC-Datei	A
MultiServer.B1336.vmcc	5.773 KB	VMCC-Datei	A
MultiServer.B1350.vmcc	36 KB	VMCC-Datei	A
MultiServer.B1359.vmcc	51 KB	VMCC-Datei	A
MultiServer.B1360.vmcc	43.119 KB	VMCC-Datei	A
MultiServer.B1369.vmcc	43.118 KB	VMCC-Datei	A
MultiServer.B1376.vmcc	43.118 KB	VMCC-Datei	A
MultiServer.B1378.vmcc	43.119 KB	VMCC-Datei	A
v1214.B1184.vmcc	42.639 KB	VMCC-Datei	A
MultiServer.vmc	42.564 KB	vsmStudio	A
v1214.vmc	42.639 KB	vsmStudio	A

Folder Configurations

The *Configurations* folder saves the following files for every configuration (see chapter 3):

3.1.1 .vmc-files

For every configuration, a .vmc file is created with an individual ID. It serves the synchronisation of servers in the multiserver cluster and contains the protocol assignment and configuration of the virtual master matrix (see chapter 6).

3.1.2 .vmcc-files

.vmcc-files are generated automatically during software updates.

3.1.3 .bak-files

.bak files are backup files that are created automatically if system-critical changes are made to the configuration.

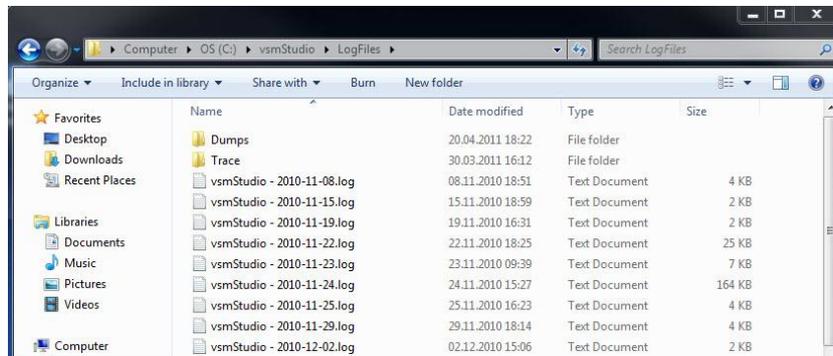
3.2 Folder Firmware



Folder Firmware

The folder *Firmware* initially contains no files. It is used to update the VSM hardware. Paste a new .pfl file into the folder to update the VSM hardware's firmware automatically. The hardware can be downgraded or flashed using a *Firmware.Patch.ini* file.

3.3 Folder LogFiles



Folder LogFiles

3.3.1 .log-files

The software creates daily log files and saves them in this folder. This happens, for example, every time vsmStudio is started. If the software runs for 24 hours, a log file is created at 3:00am (local time) by default. Its size (in gigabytes) as well as length of time it will be saved can be defined at the start of every configuration (see chapter 3.1.3. Retention Limits for Log Files and Alarms). Log files are sorted by date and saved in a text format. Manual deleting of log files on a regular basis is recommended.

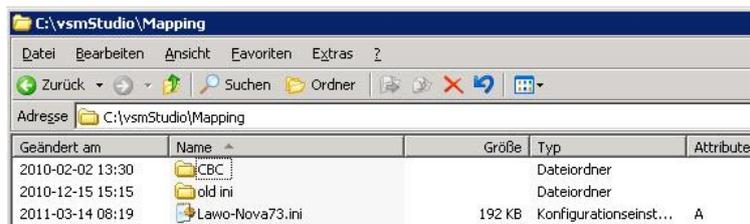
3.3.2 Subfolder Dumps

In the event of a crash, dump files (.dmp) are saved in the folder *LogFiles*. These contain a snapshot of the memory with time and date of the crash. This allows the identification of the problem that led to the crash.

3.3.3 Subfolder Trace

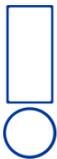
.txt files showing the *CommTrace* are saved in the subfolder *Trace*. Trace files contain information pertaining to the logging start of the computer, the version of vsmStudio used, running events, and crosspoints with pseudo devices (see chapter 12). Go to the *System Debug Flags* rider under matrix settings to create a trace file (see chapter 6.7 Matrix Properties).

3.4 Folder Mapping



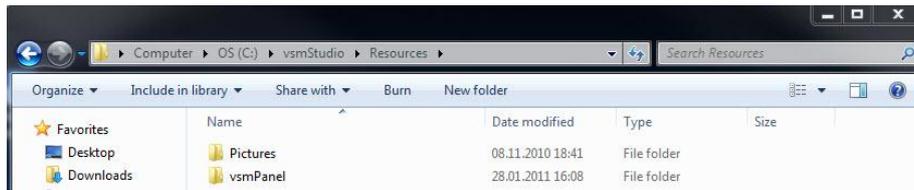
Folder Mapping

If a Lawo Nova 73 router is used, the folder *Mapping* saves an .ini file with the corresponding interfaces.



Please note: This file should always be read-only.

3.5 Folder Resources



Folder Resources

The folder *Resources* contains two sub folders: *Pictures* and *vsmPanel*.

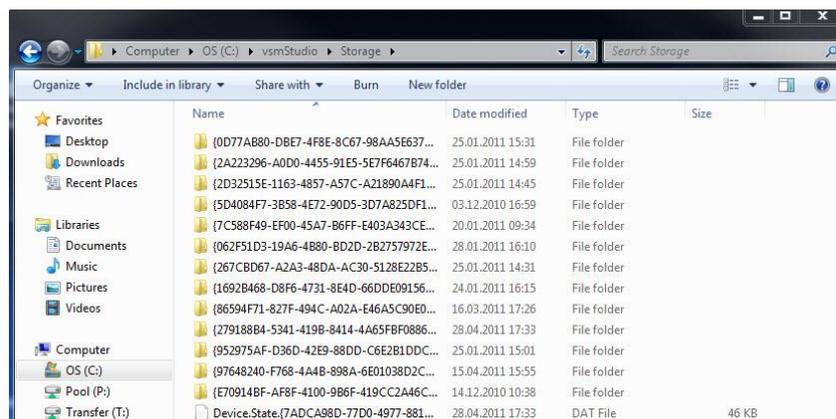
3.5.1 Subfolder Pictures

The folder *Pictures* allows the saving of different backgrounds for different panel IDs. If it contains the file *background.default.bmp*, this picture is used as background for the panel editor.

3.5.2 Subfolder vsmPanel

The folder *vsmPanel* contains pictures that are assigned to buttons in the panel editor. These are saved automatically.

3.6 Folder Storage



Folder Storage

For every configuration, the folder *Storage* contains different *.dat* files with configuration-specific information. In these files, each label change and change of storage groups is assigned a time stamp and subsequently saved. The time stamp is not applied to all labels and storage groups, but only to those that were changed.

The following .dat files are saved here:

- *Labels.dat*: transfer of labels to other servers with time stamp and changes
- *ScheduledEvents.dat*: events for the transfer to other servers set up in the scheduler
- *SignalLocks.dat*: locked signals to be transferred to other servers
- *StorageGroups.dat*: contents of storage groups to be transferred to other servers
- *VirtualStates.dat*: crosspoints information of virtual signals (see chapter 5.4 Virtual Signals)
- *Tombstones.dat*: administrative file that saves changes and synchronizes the server (for a maximum of 90 days)
- *DeviceState.dat*: crosspoint information of the VSM Dummy X-Switches (see chapter 8.1.7 VSM Dummy X-Switch).

3.7 vsmStudio Files

In addition, the folder contains the vsmStudio files made available for the installation and updating of the software (see chapter 2.1.2 Demo Software Installation) as well as a *vsmStudio.DAT* to save user rights.

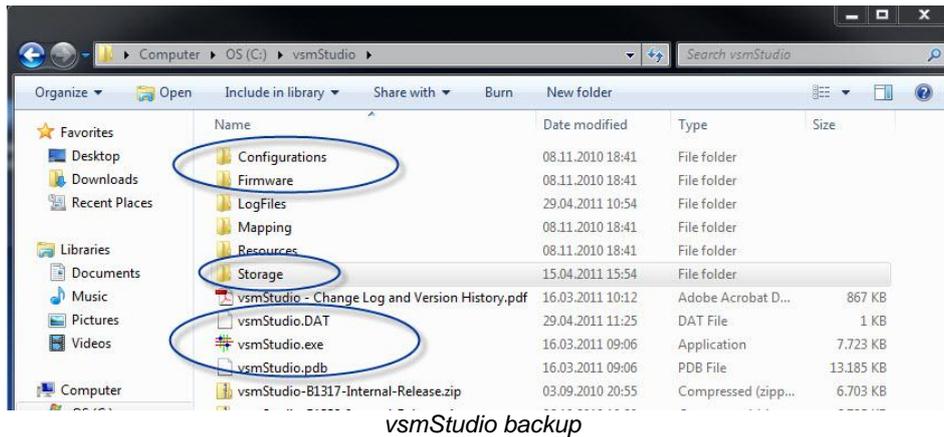
4 Software Update

4.1 Software Backup



Please note: It is recommended to complete a backup of the running version before starting a software update. This ensures the availability of the current version should the software update fail.

The critical files that need to be saved to return to the currently running version of vsmStudio are located in the folder vsmStudio on the C drive.



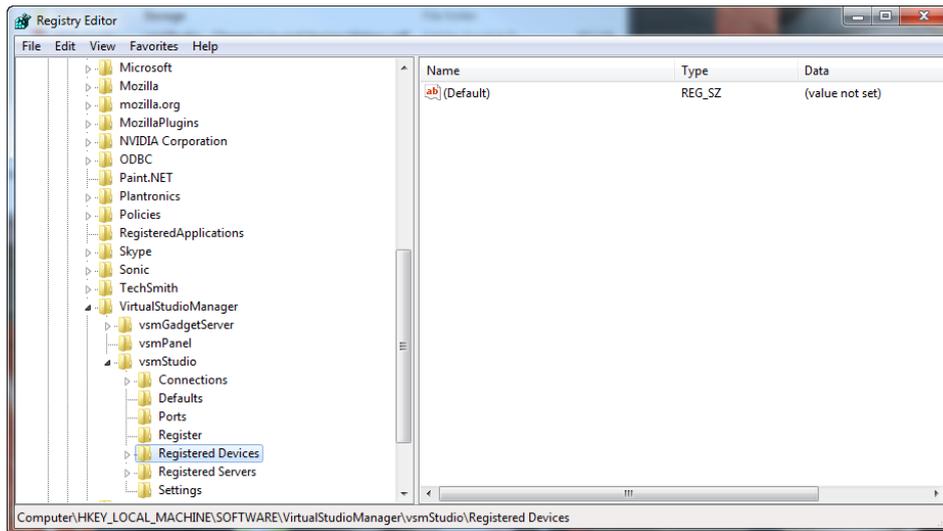
To create a backup of the current version and configuration of vsmStudio, copy the following files and folders onto the backup drive:

- The used configurations from the folder *Configurations* (.bak- and .vmcc-files do not need to be stored but should be deleted from time to time due to the fact that they are created on a regular basis)
- the folder *Firmware*
- the folder *Storage*
- the file *vsmStudio.DAT*
- the file *vsmStudio.pbd*
- the file *vsmStudio.exe* and
- if available the original .zip-file.

If devices from the manufacturer Lawo are used, the *Lawo-Nova73.ini* file from the folder *Mapping* must also be copied.

From the Registry Editor (Regedit at HKEY_LOCAL_MACHINE\SOFTWARE\VirtualStudioManager\vsmStudio) the following files are to be copied:

- *Connections*
- *Ports* and
- *Registered Devices*.

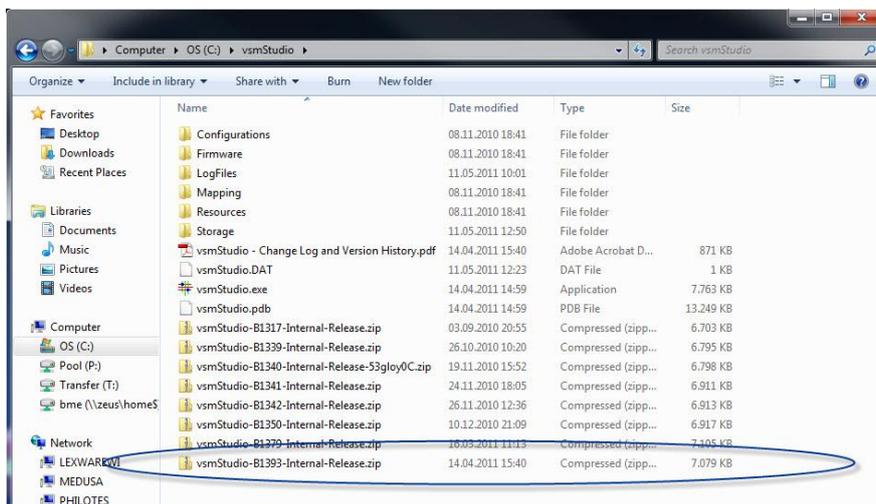


Registry Editor

All files should be copied to a folder at the backup partition and named with the date of the day. Finally the vsmStudio software has to be closed before completing the update.

4.2 Software Update

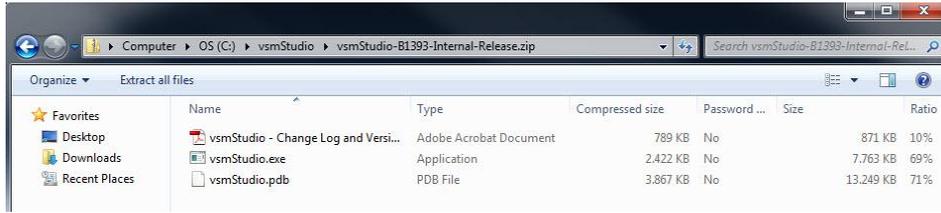
L-S-B provides download links for the software update of vsmStudio. The .zip file received via e-mail must be opened by clicking on the download link and saved in the vsmStudio folder on the C drive.



Saving of update file in vsmStudio folder on C drive

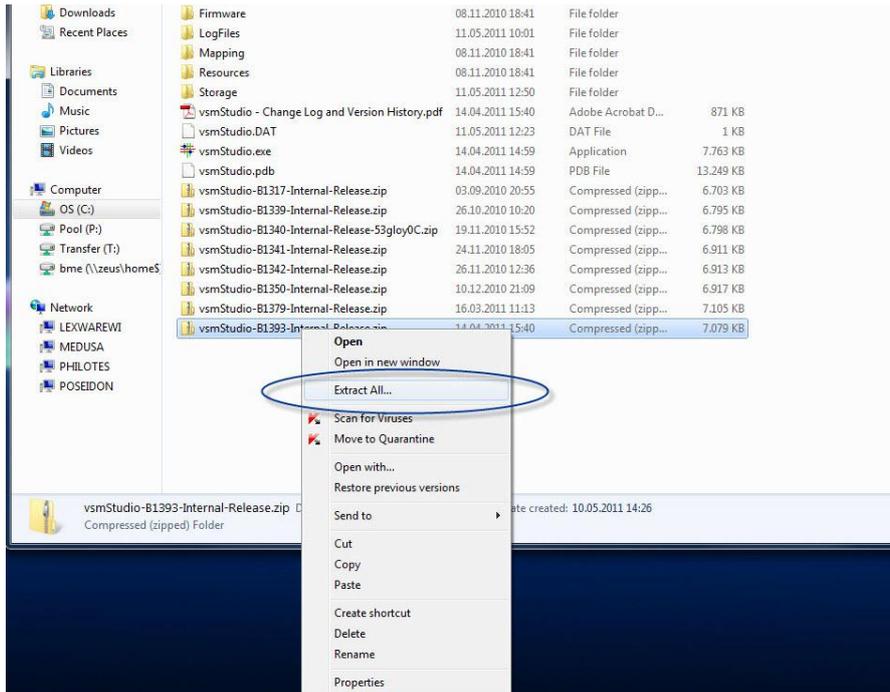
The update folder contains the following three vsmStudio files:

- *vsmStudio.exe*, the actual vsmStudio update file
- *vsmStudio.pdb* and
- *vsmStudio – Change Log and Version History.pdf*.



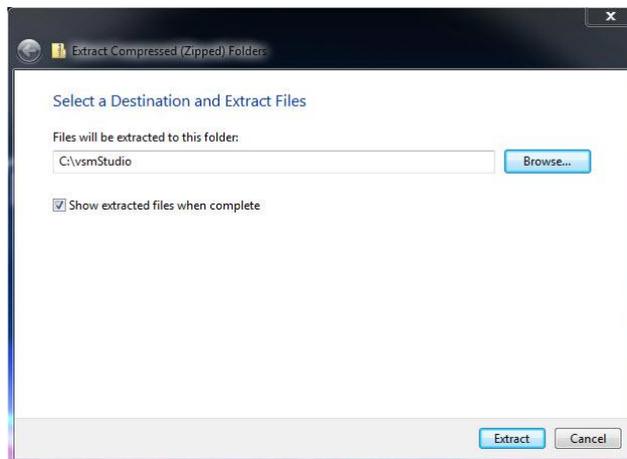
vsmStudio Update folder

Select the *Extract all* option after right clicking on the .zip folder to extract the files.



Extracting of the .zip file

The destination folder of the extracted files is again the vsmStudio folder on the C drive.



Extracting the files to C:\vsmStudio

As older versions of the files already exist in the folder, the system will verify whether these files should be replaced. Confirm three times to update all three files.

When starting vsmStudio the next time, verify the success of the update by checking the startup screen or the build number above the info symbol.



vsmStudio startup screen

If available these updating steps should be repeated at the redundant server.

