

## Technical Guide - Command Line Use of SIMS Installers

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## Purpose

This document is produced for assisting the following people in understanding how to integrate the SIMS Installation Tools 2008 into managed networks.

LA or LSU staff that have a need for non-standard deployments.

Third party suppliers of Installation and Network Management Tools

Schools with non-standard setups

## Summary

This document explains how the installers can be used from command line or batch files without the interactive use of SIMS Installer.

These options are intended to ensure that SIMS can be installed in as wide a range of platforms and configurations as possible. SIMS Installer is only intended to cope with 'standard' or near to 'standard' installations.

## **SIMS Infrastructure Setup (SIMSInfrastructureSetup.EXE)**

This requires local administrative rights to the workstation as it carries out operating system level installations.

### **Parameters**

There are no user required parameters needed for a quiet installation. Once executed, SIMSInfrastructureSetup.exe will run to completion in a normal situation, only displaying information regarding what is currently being installed. To suppress all messages the following command should be used:

```
SIMSInfrastructureSetup.exe /S
```

### **Return Value**

SIMSInfrastructureSetup.EXE returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### **Comments**

There may be some isolated occasions where the quiet user experience may be interrupted by a failure on a non standard installation, which will be due to the activity of the installers called by SIMSInfrastructureSetup.exe. In this situation the user should follow any advice offered by the relevant software vendor.

This installer is also used to supply the infrastructure for FMS workstations and servers, and should be executed with the /FMS parameter.

There is no uninstaller supplied for this installer. This is because the sub installers have their own uninstallers which can be called from the add/remove programs section in the control panel.

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## SIMS Application Setup (SIMSApplicationSetup.EXE)

This requires limited rights to the workstation which are dependant on the target operating system.

### Changes to INI Files

The following values written to SIMS.INI

```
[Setups]
SIMSDotNetDirectory
```

The file version number of SIMSApplicationSetup.EXE is written to <SIMSDotNetDirectory>\SIMSLoad.INI (for example "C:\Program Files\SIMS\SIMS .net\simsload.ini")

```
[LastChecked]
SIMSApplicationSetup=n.n.n.n
```

This is used to trigger the automatic upgrade process on the workstation (see the document "SIMS Installation Tools and Procedures 2008" for further information).

### Parameters

The command line parameters accepted are

```
{QuietMode}
/S (to be used in conjunction with {QuietMode}
[SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"1
```

### Example

To run in Quiet mode execute ;

```
SIMSApplicationSetup.exe /S {QuietMode} [SIMSDirectory]="<fullpathToSIMSfolder>"
[SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"
```

The path passed on the command line to [SIMSDotNetDirectory] will supersede any in stored in SIMS.INI and further more the value in SIMS.INI will be updated to match what was specified on the command line. If not passed the value in SIMS.INI will be used.

### Quiet Mode

When running in QuietMode the following rules apply.

- A value for the SIMSDotNetDirectory should be passed on the command line.

- If a value is not passed on command line then SIMS.INI is checked and used if they exist

- If no value is passed and does not exist in SIMS.INI the installation will record this in the log file and then exit.

- Wherever the values come from they will get written back to SIMS.INI.

- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Adding /S will suppress the progress bar.

---

<sup>1</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSApplicationSetup.exe

## **Return Value**

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

## **Comments**

Vista users should be aware that Administrative rights are required to carry out this installation due to the protection level of the default destination location.

---

## SIMS AMPARK Setup (SIMSAMPARKSetup.EXE)

This requires limited rights to the workstation which are dependant on the target operating system.

### Changes to INI Files

The following values written to SIMS.INI

```
[Setups]
SIMSDotNetDirectory
```

The file version number of SIMSAMPARKSetup.EXE is written to <SIMSDotNetDirectory>\SIMSLoad.INI (for example "C:\Program Files\SIMS\SIMS .net\simsload.ini")

```
[LastChecked]
SIMSAMPARKSetup=n.n.n.n
```

This is used to trigger the automatic upgrade process on the workstation (see the document "SIMS Installation Tools and Procedures 2008" for further information).

### Parameters

The command line parameters accepted are

```
{QuietMode}
/S (to be used in conjunction with {QuietMode}
[SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"2
```

### Example

To run in Quiet mode execute ;

```
SIMSamparkSetup.exe /S {QuietMode} [SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"
```

The path passed on the command line to [SIMSDotNetDirectory] will supersede any in stored in SIMS.INI and further more the value in SIMS.INI will be updated to match what was specified on the command line. If not passed the value in SIMS.INI will be used.

### Quiet Mode

When running in QuietMode the following rules apply.

- A value for the SIMSDotNetDirectory should be passed on the command line.
- If a value is not passed on command line then SIMS.INI is checked and used if they exist
- If no value is passed and does not exist in SIMS.INI the installation will record this in the log file and then exit.
- Wherever the values come from they will get written back to SIMS.INI.
- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Adding /S will suppress the progress bar.

---

<sup>2</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSamparkSetup.exe

## **Return Value**

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

## **Comments**

Vista users should be aware that Administrative rights are required to carry out this installation due to the protection level of the default destination location.

---

## SIMS Manual Setup (SIMSManualSetup.EXE)

### Changes to INI Files

The following values are written to SIMS.INI

```
[Setups]
SIMSDotNetDirectory
```

The file version number of SIMSManualSetup.EXE is written to <SIMSDotNetDirectory>\SIMSLoad.INI (for example "C:\Program Files\SIMS\SIMS .net\simsload.ini")

```
[LastChecked]
SIMSManualSetup=n.n.n.n
```

This is used to trigger the automatic upgrade process on the workstation (see the document "SIMS Installation Tools and Procedures 2008" for further information).

### Parameters

The command line parameters accepted are

```
{QuietMode}
/S (to be used in conjunction with {QuietMode}
[SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"3
```

### Example

To run in Quiet mode execute ;

```
SIMSManualSetup.exe /S {QuietMode} [SIMSDotNetDirectory]="<fullpathToLocalWorkstationfolder>"
```

Any paths passed on the command line (for example {SIMSDotNetDirectory}) will supersede any in stored in SIMS.INI and further more the values in SIMS.INI will be updated to match what was specified on the command line. If not passed the values in SIMS.INI will be used.

### Quiet Mode

When running in QuietMode the following rules apply.

- A value for the SIMSDotNetDirectory should be passed on the command line.
- If values are not passed on command line then SIMS.INI is checked and used if they exist
- If no values are passed and do not exist in SIMS.INI the installation will record this in the log file and then exit.
- Wherever the values come from they will get written back to SIMS.INI.
- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

---

<sup>3</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSManualSetup.exe.

---

## SIMS SQL Application Setup (SIMSSQLApplicationsetup.EXE)

### Changes to INI Files

Values written to SIMS.INI

```
[Setups]
SIMSSQLAppsDirectory
```

The file version number of SIMSSQLApplicationSetup.EXE is written to <SIMSSQLAppsDirectory>\SIMSQLLoad.INI (for example "c:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\bin\simSQLLoad.ini")

```
[LastChecked]
SIMSSQLApplicationSetup=n.n.n.n
```

This is used to trigger the automatic upgrade process on the workstation (see the document "SIMS Installation Tools and Procedures 2008" for further information).

### Parameters

Command Line Parameters accepted:

```
/S {QuietMode}
[SIMSSQLAppsDirectory]="<fullpathToSQLApplicationfolder>"4
```

### Example

To run in Quiet mode execute:

```
SIMSSQLApplicationSetup.exe /S {QuietMode} [SIMSSQLAppsDirectory]="<fullpathToSIMSSQLApplicationsfolder>"
```

Any paths passed on the command line (SIMSSQLAppsDirectory) will supersede any in SIMS.INI and furthermore the values in SIMS.INI will be updated to match what was specified on the command line.

### Quiet Mode

When running in QuietMode the following rules apply.

- Values for SIMS SQL Applications should be passed on the command line.

- If values are not passed on command line then SIMS.INI is checked and used if they exist

- If no values are passed and do not exist in SIMS.INI the installation will record this in the log file and then exit.

- Wherever the values come from they will get written back to SIMS.INI.

- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

SQL Server computers also need the SIMS Infrastructure Setup to be run and an appropriate version of the database installed.

---

<sup>4</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSSQLApplicationSetup.exe.

---

## SIMS Central Server Setup (SIMSCentralServerSetup.EXE)

### Changes to INI Files

Values written to SIMS.INI

```
[Setups]
SIMSDirectory
```

The file version number of SIMSCentralServerSetup.EXE is written to <SIMSDirectory>\CentralLoad.INI (for example "S:\SIMS\CentralLoad.ini")

```
[LastChecked]
SIMSCentralServerSetup=n.n.n.n
```

This is used to trigger the automatic upgrade process on the workstation (see the document "SIMS Installation Tools and Procedures 2008" for further information).

### Parameters

Command Line Parameters accepted:

```
/S {QuietMode}
[SIMSDirectory]="<fullpathToCentralServerFolder>"5
```

### Example

To run in Quiet mode execute ;

```
SIMSCentralSetup.exe /S {QuietMode} [SIMSDirectory]="< fullpathToCentralServerFolder >"
```

Any paths passed on the command line (SIMSDirectory) will supersede any in SIMS.INI and furthermore the values in SIMS.INI will be updated to match what was specified on the command line.

### Quiet Mode

When running in QuietMode the following rules apply.

- Values for SIMS Central Server should be passed on the command line.
- If values are not passed on command line then SIMS.INI is checked and used if they exist
- If no values are passed and do not exist in SIMS.INI the installation will record this in the log file and then exit.
- Wherever the values come from they will get written back to SIMS.INI.
- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

Central Server computers also need the SIMS Infrastructure Setup to be run.

---

<sup>5</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSCentralServerSetup.exe.

---

## SIMS Document Server Installer (SIMSDocumentServerInstaller.EXE)

### Parameters

Command Line Parameters accepted:

```
/INSTALL  
/QUIETMODE  
[ProgramDir]="<fullpathToInstallationFolder>"6  
[DocDir]="<fullPathToDocumentStorageFolder>"  
[Port]="<validPortNumber>" 0-65535  
[Protocol]="<networkProtocol>" TCP/HTTP
```

### Example

To run in Quiet mode execute ;

```
SIMSDocumentServerInstaller /INSTALL /QUIETMODE [ProgramDir]="C:\Program Files\SIMS\SIMS .net Document Server"  
[DocDir]="C:\DOCSTORAGE" [Port]="8080" [Protocol]="TCP"
```

### Quiet Mode

When running in QuietMode the following rules apply.

Values for SIMS Document Server Installer should be provided, however [ProgramDir] is the only mandatory input parameter and failure to provide a valid install path may cause unexpected results.

If you do not supply [Port] or [Protocol] they will default to 8080 and TCP respectively. [DocStorage] will default to C:\DOCSTORAGE

Using /QUIETMODE will have no user interaction, although a progress bar will be displayed. Add /S to suppress this. You must supply /INSTALL otherwise the installer will not function in installation mode.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

Document server computers also need the SIMS Infrastructure Setup to be run.

---

<sup>6</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSDocumentServerInstaller.exe.

---

## Nova Satellite Setup (NovaSatelliteSetup.EXE)

### Changes to INI Files

Values written to SIMS.INI

```
[Setups]
NovaSatelliteSetup
```

### Parameters

Command Line Parameters accepted:

```
/S {QuietMode}
[NovaSatellite]="<fullpathToNovaSatelliteFolder>"7
```

### Example

To run in Quiet mode execute ;

```
NovaSatelliteSetup.exe /S {QuietMode} [NovaSatelliteDirectory]="<fullpathToNovaSatelliteFolder>"
```

Any paths passed on the command line (NovaSatelliteDirectory) will supersede any in SIMS.INI and furthermore the values in SIMS.INI will be updated to match what was specified on the command line.

### Quiet Mode

When running in QuietMode the following rules apply.

- Values for Nova Satellite Setup should be passed on the command line.
- If values are not passed on command line then SIMS.INI is checked and used if they exist
- If no values are passed and do not exist in SIMS.INI the installation will record this in the log file and then exit.
- Wherever the values come from they will get written back to SIMS.INI.
- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

Nova Satellite computers also need the SIMS Infrastructure Setup to be run.

---

<sup>7</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by SIMSCentralServerSetup.exe.

---

## FMS Application Setup (FMSApplicationSetup.EXE)

### Changes to INI Files

Values written to SIMS.INI

```
[Setups]  
FinanceDirectory
```

The file version number of FMSApplicationSetup.EXE is written to <FinanceDirectory>\FMSLoad.INI (for example "C:\Program Files\SIMS\FMSSQL\fmsload.ini")

```
[LastChecked]  
FMSApplicationSetup=n.n.n.n
```

### Parameters

Command Line Parameters accepted:

```
/S {QuietMode} [FMSDirectory]="<fullpathToFMSApplicationFolder>"8
```

### Example

To run in Quiet mode execute ;

```
FMSApplicationSetup.exe /S {QuietMode} [FMSDirectory]="<fullpathFMSApplicationFolder>"
```

Any paths passed on the command line (FMSDirectory) will supersede any in SIMS.INI and furthermore the values in SIMS.INI will be updated to match what was specified on the command line.

### Quiet Mode

When running in QuietMode the following rules apply.

- Values for FMS Application Setup should be passed on the command line.

- If values are not passed on command line then SIMS.INI is checked and used if they exist

- If no values are passed and do not exist in SIMS.INI the installation will use the default value of C:\Program Files\SIMS\FMSSQL

- Wherever the values come from they will get written back to SIMS.INI.

- Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

FMS workstation computers also need the SIMS Infrastructure Setup to be run.

---

<sup>8</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by FMSApplicationSetup.exe.

---

## FMS SQL Application Setup (FMSSQLApplicationSetup.EXE)

### Changes to INI Files

Values written to SIMS.INI

```
[FMSSQL]  
FinanceDirectory
```

The file version number of FMSSQLApplicationSetup.EXE is written to <FinanceDirectory>\FMSLoad.INI (for example "C:\Program Files\Microsoft SQL Server\MSSQL.1\MSSQL\bin\fmssqlload.ini")

```
[LastChecked]  
FMSSQLApplicationSetup=n.n.n.n
```

### Parameters

Command Line Parameters accepted:

```
/S {QuietMode} [SQLDirectory]="<fullpathToFMSSQLFolder>"9
```

### Example

To run in Quiet mode execute ;

```
FMSSQLApplicationSetup.exe /S {QuietMode} [SQLDirectory]="< fullpathToFMSSQLFolder >"
```

Any paths passed on the command line (SQLDirectory) will supersede any in SIMS.INI and furthermore the values in SIMS.INI will be updated to match what was specified on the command line.

### Quiet Mode

When running in QuietMode the following rules apply.

Values for FMS SQL Application Setup should be passed on the command line. The [SQLDirectory] should point to the binn directory for the SQL instance you would like to use for your FMS database.

If values are not passed on command line then SIMS.INI is checked and used if they exist

If no values are passed and do not exist in SIMS.INI the installation will record this in the log file and then exit.

Wherever the values come from they will get written back to SIMS.INI.

Using {QuietMode} will have no user interaction, although a progress bar will be displayed. Add /S to suppress this.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error

### Comments

FMS server computers also need the SIMS Infrastructure Setup to be run.

---

<sup>9</sup> Pathnames must be enclosed in quotes regardless of whether they contain spaces or not or else they will not get parsed correctly by FMSSQLApplicationSetup.exe.

## Database Upgrade Tool (DBUpgrade.EXE)

### Parameters

*/SERVER:SQLServeName* - the name of the SQL Server to upgrade  
*/DATABASE:DatabaseName* - the name of the SIMS database on the server to upgrade.

Note: if not supplied the settings from the Connect.INI in the current directory will be used if it exists.

*/USER:username* - the SIMS user name (not the SQL Server user name)  
*/PASSWORD:password* - the SIMS password (not the SQL Server password)

*/FORCEUPGRADE* - to automatically drop all open connections to the database prior to an upgrade or patch being applied (must be used in conjunction with 'SA' credentials to have an affect).

*/SAUSER:SA* - Currently (at August 2008) only the 'SA' system administrator can be used to force and upgrade and drop connections without user intervention.

*/SAPASSWORD:password* - the 'SA' SQL administrators password.

*/REFERENCE:"ABCD"* - ABCD is the path to the location of the database upgrade scripts.

Note: If not supplied this will be found by looking at the content of %WINDIR%\SIMS.INI in the setting;

```
[setup]  
SIMSSetupDirectory=XXXX
```

If */REFERENCE* is supplied the scripts in the specified directory will be executed automatically if they follow the following filename pattern; For upgrades : "3.NN.NNN to 3.NN.NNN Upgrade.zip". These files are only processed if the current database version number is equal to the first version number in the file name.

For patches e.g.: "3.NN.NNN to 3.NN.NNN <PatchID> Patch.zip". Files of this spec can contain multiple \*.SQL files which are executed in named order. The files are processed if the current database version falls within the range of versions in the file name.

*/SCRIPT:"ABCD"* - ABCD is the path and file name of a single script file to execute.

This option is ignored if */REFERENCE* is used. The script indicated will be executed unconditionally.

*/AUTO* - If supplied the user interface will not wait for the user to press the Install button.  
*/NOBACKUP* - If supplied no backup will be taken of the database, and no restore will be performed.  
*/NODetail* - If supplied the detail text box listing the upgrades which will be done will no be displayed.  
*/TRUSTED* - If supplied the current users' windows credentials will be used to log in to SIMS.

### Return Value

Returns a process exit code of zero indicates no problems found. An exit code of one indicates a fatal error.

### Comments

On multiple server systems, such as a Citrix installation, the above can be used to create a batch file that upgrades each database in turn.

## Known Issues

When using command line installers without using the SIMS Installer (SIMSInst.EXE), the following SIMS.INI entry

Under [\[setup\]](#)

[SIMSSetupDirectory=S:\SIMS\Setups](#)

is not created.

This value must be present in SIMS.INI if automatic upgrades are to occur and should indicate the directory in which the Installation Tools exist. A workaround for sites which use the SIMS Installation Tools without using the SIMS Installer is to manually set this value using a small Windows Scripting Host VBScript program or their normal login scripting language.