Comtarsia Logon Client 2016 Software Distribution

Manual

06 September 2018

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1. Introduction

This document describes the steps necessary for customisation and creating an automatic installation package of the Comtarsia Logon Client 2016.

To create the Microsoft Windows Installer transforms, any software capable of creating such files can be used, e.g. Microsoft Orca from the Windows SDK/MSI tools (http://msdn.microsoft.com/en-us/library/windows/desktop/aa370557(v=vs.85).aspx)
or InstEd (http://www.instedit.com/).

Microsoft Windows Installer transform files contain changes which should be applied to an MSI file during installation by the Microsoft Windows Installer.

2. Prerequisite

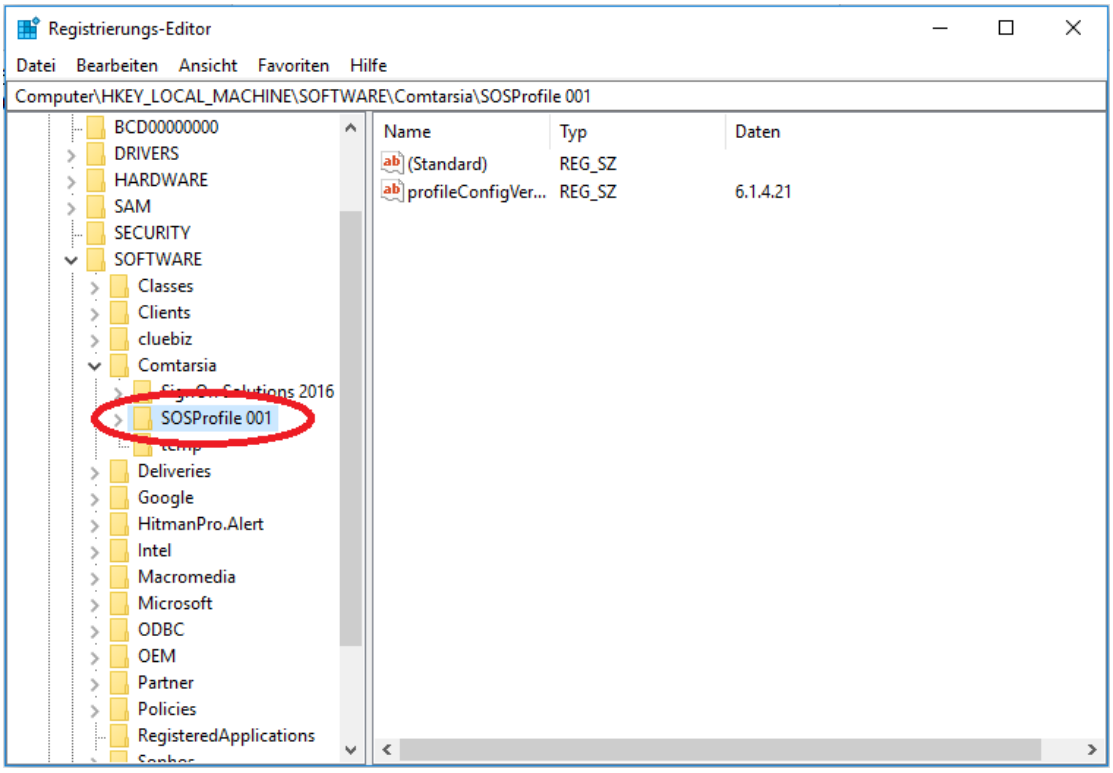
The prerequisite for this document is a fully configured and tested master system.

2.1 Temporary Folder

A temporary folder must be created in which all required files can be stored.
Example: c:\sos

2.2 Logon Client configuration

Each Logon Client configuration profile must be exported to a reg file.
Export:HKEY_LOCAL_MACHINE\SOFTWARE\Comtarsia\SOSProfile 001 ->
LCConfig_SOSProfile001.reg



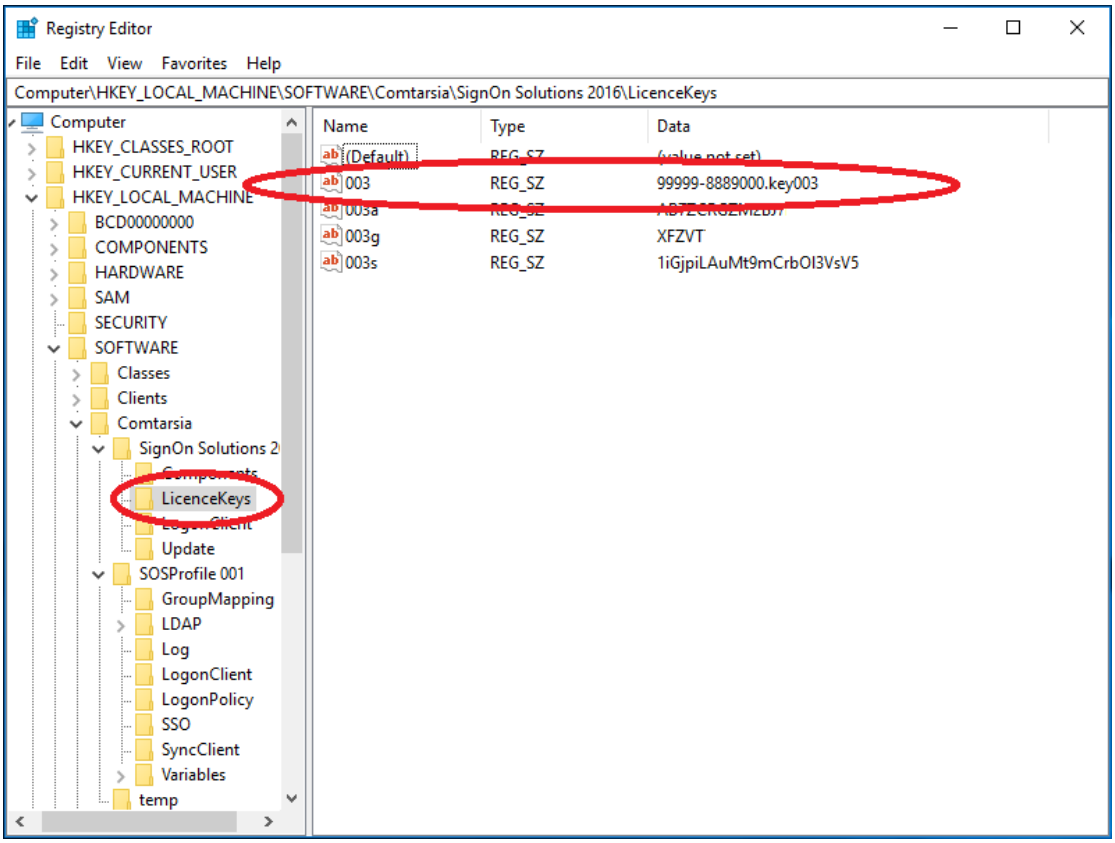
The Regfile must be stored in the temporary folder (2.1).

2.3 License Key

The license key configuration must be exported to a reg file.

To do this, export the Registry key
HKEY_LOCAL_MACHINE\SOFTWARE\Comtarsia\SignOn Solutions
2016\LicenceKeys:

After the export, open the registry file.



The Attribute "003" defines the license key file, which must be copied to the temporary folder (2.1).

In case an attribute "003a" exists, the value must be set to "AUTO_ACTIVATE".

Delete all another attribute "003s" if it exists.

Example:
[HKEY_LOCAL_MACHINE\SOFTWARE\Comtarsia\SignOn Solutions 2016\LicenceKeys]
"003"="99999-8889000.key003"
"003a"="AUTO_ACTIVATE"

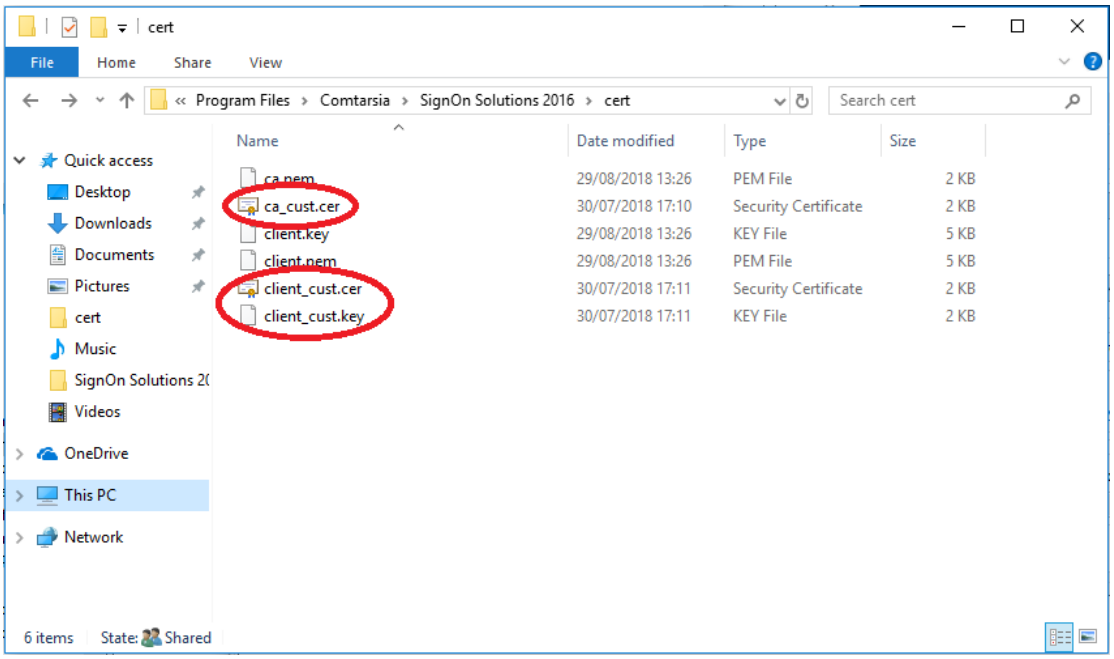
Save the registry in a file named "LCConfig_LicenseKey.reg" and copy it to the temporary folder (2.1).

2.4 Panel Bitmap (Optional)

If an individual panel bitmap is defined in the profile, the Bitmap must also be copied to the temporary folder.
Example: [HKEY_LOCAL_MACHINE\SOFTWARE\Comtarsia\SOSProfile 001\LogonClient]
"panelBitmap"="C:\\CLC_2016_192x192.bmp"

2.5 custom SSL certificates (Optional)

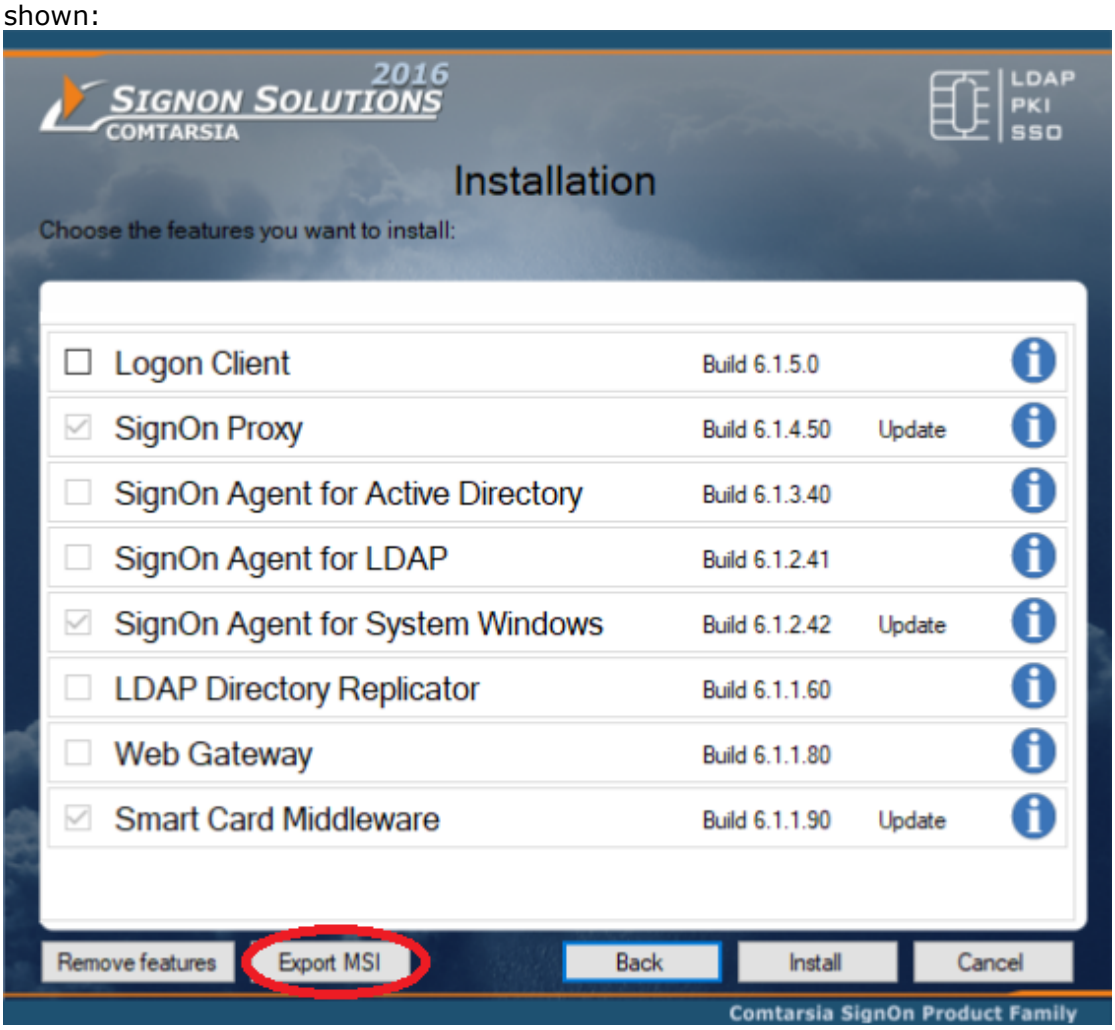
If custom SSL certificates are defined in the profile, all the files must also be copied to the temporary folder.



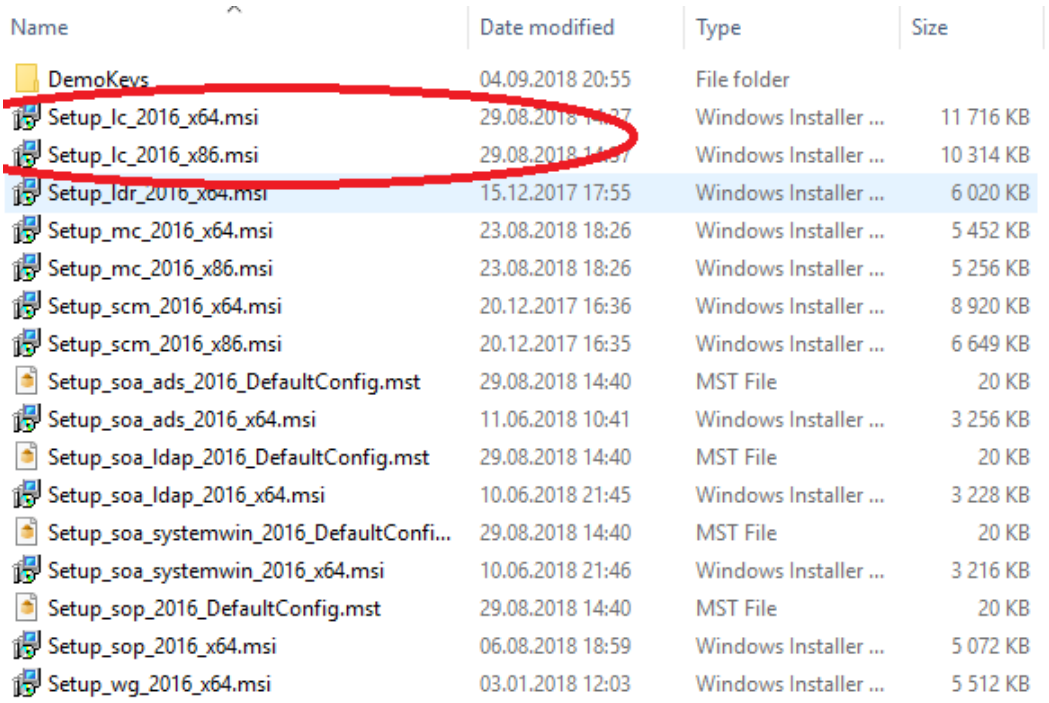
Example:
[HKEY_LOCAL_MACHINE\SOFTWARE\Comtarsia\SOSProfile 001\SyncClient]
"tlsCAFile"="C:\\Program Files\\Comtarsia\\SignOn Solutions 2016\\cert\\ca_cust.cer"
"tlsCertFile"="C:\\Program Files\\Comtarsia\\SignOn Solutions 2016\\cert\\client_cust.cer"
"tlsKeyFile"="C:\\Program Files\\Comtarsia\\SignOn Solutions 2016\\cert\\client_cust.key"

2.6 The Logon Client MSI Package

The Logon Client MSI packages can be extracted from the SignOn Solutions 2016 bundle installer. First, download the SignOn Solutions 2016 bundle from the Comtarsia website: https://signon.comtarsia.com/main/en/Download
Then execute the package. After accepting the license term, the following page is shown:



By pressing the "Export MSI" button, all the SignOn Solutions MSI files are extracted to a folder.

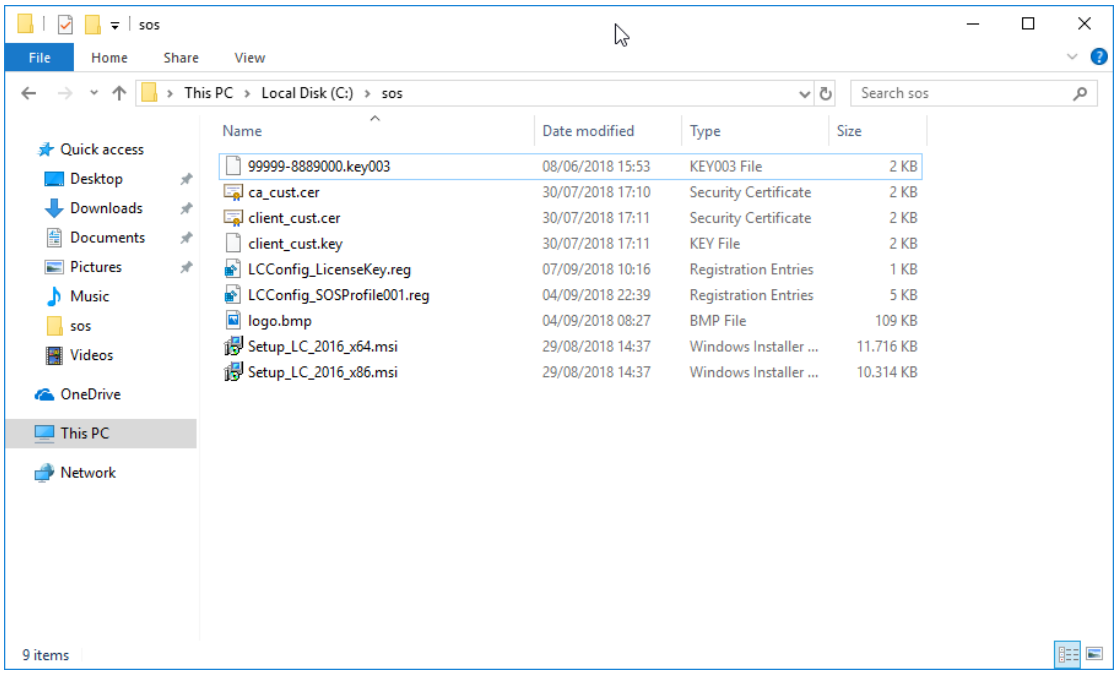


Name	Date modified	Type	Size
DemoKeys	04.09.2018 20:55	File folder	
Setup_lc_2016_x64.msi	29.08.2018 14:37	Windows Installer ...	11 716 KB
Setup_lc_2016_x86.msi	29.08.2018 14:37	Windows Installer ...	10 314 KB
Setup_ldr_2016_x64.msi	15.12.2017 17:55	Windows Installer ...	6 020 KB
Setup_mc_2016_x64.msi	23.08.2018 18:26	Windows Installer ...	5 452 KB
Setup_mc_2016_x86.msi	23.08.2018 18:26	Windows Installer ...	5 256 KB
Setup_scm_2016_x64.msi	20.12.2017 16:36	Windows Installer ...	8 920 KB
Setup_scm_2016_x86.msi	20.12.2017 16:35	Windows Installer ...	6 649 KB
Setup_soa_ads_2016_DefaultConfig.mst	29.08.2018 14:40	MST File	20 KB
Setup_soa_ads_2016_x64.msi	11.06.2018 10:41	Windows Installer ...	3 256 KB
Setup_soa_ldap_2016_DefaultConfig.mst	29.08.2018 14:40	MST File	20 KB
Setup_soa_ldap_2016_x64.msi	10.06.2018 21:45	Windows Installer ...	3 228 KB
Setup_soa_systemwin_2016_DefaultConfi...	29.08.2018 14:40	MST File	20 KB
Setup_soa_systemwin_2016_x64.msi	10.06.2018 21:46	Windows Installer ...	3 216 KB
Setup_sop_2016_DefaultConfig.mst	29.08.2018 14:40	MST File	20 KB
Setup_sop_2016_x64.msi	06.08.2018 18:59	Windows Installer ...	5 072 KB
Setup_wg_2016_x64.msi	03.01.2018 12:03	Windows Installer ...	5 512 KB

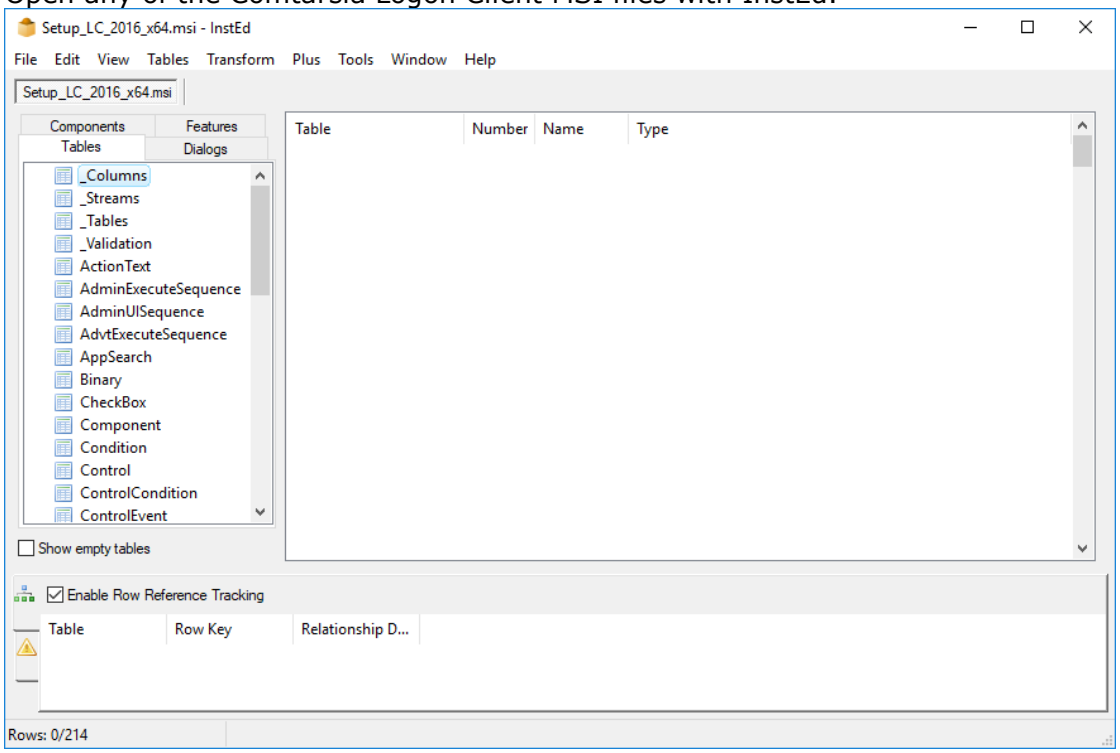
The files Setup_lc_2016_x64.msi and Setup_lc_2016_x86.msi are the Logon Client MSI packages. Copy them to the temporary folder (2.1).

3. Create the MSI Transform

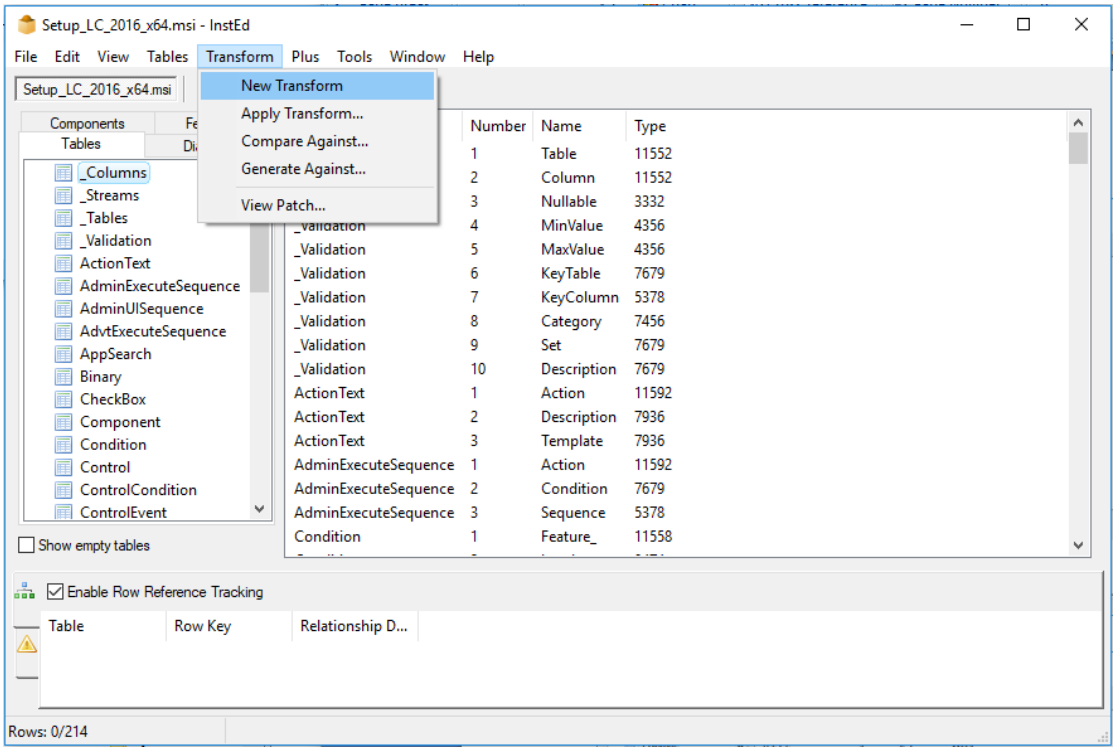
The temporary directory (2.1) created before should now contains all necessary files.



Open any of the Comtarsia Logon Client MSI files with InstEd.

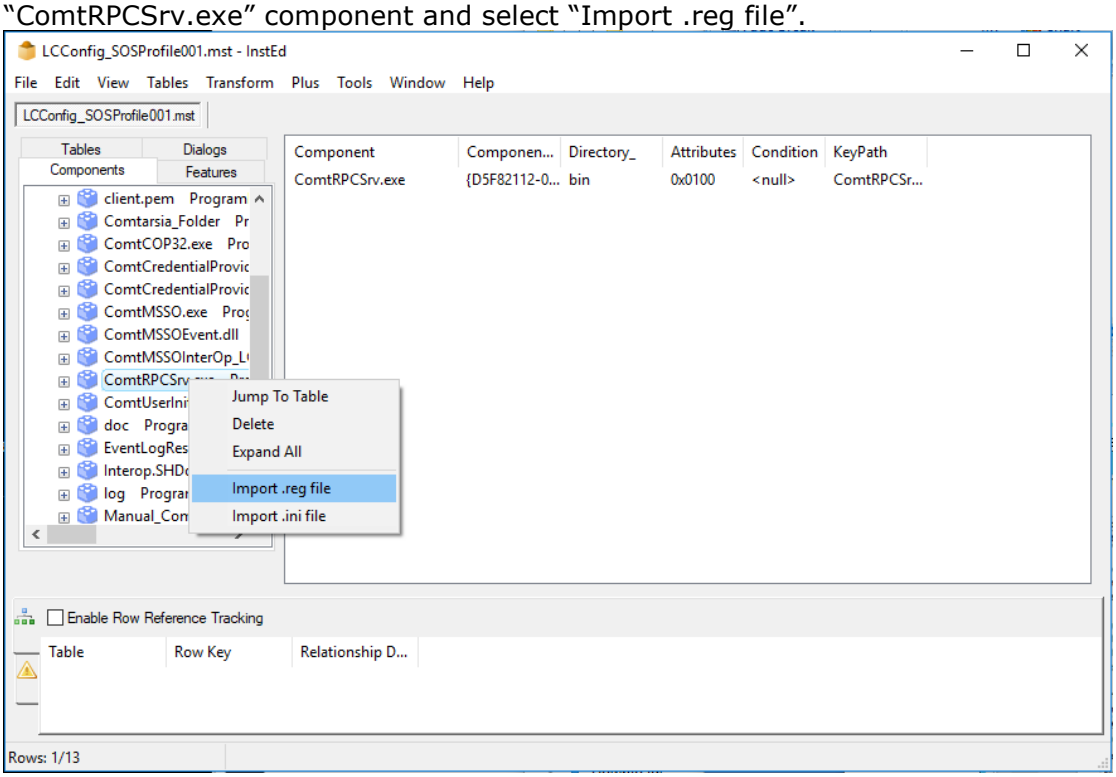


Select “Transform > New Transform” to create a new “.mst”-file.

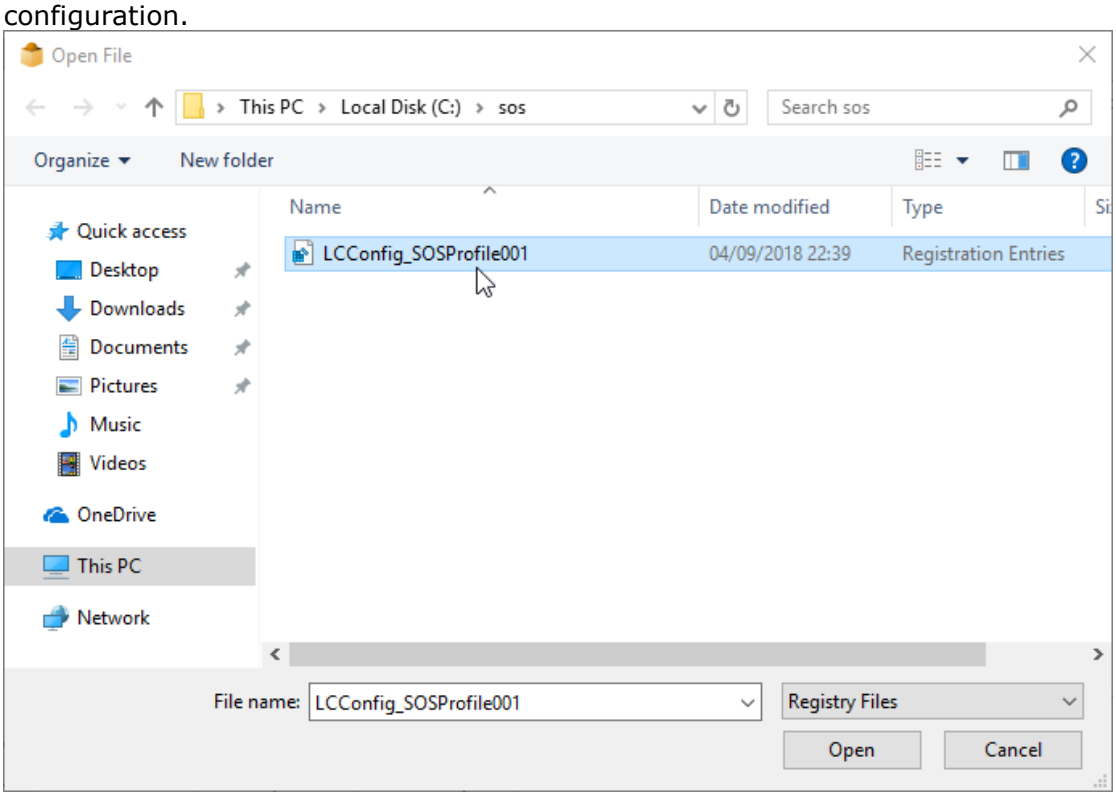


Choose an appropriate file name for the new transform (e.g. “LCConfig_SOSProfile001.mst”).

Switch to the “Components” view on the left side, then right-click onto the “ComtRPCSrv.exe” component and select “Import .reg file”.

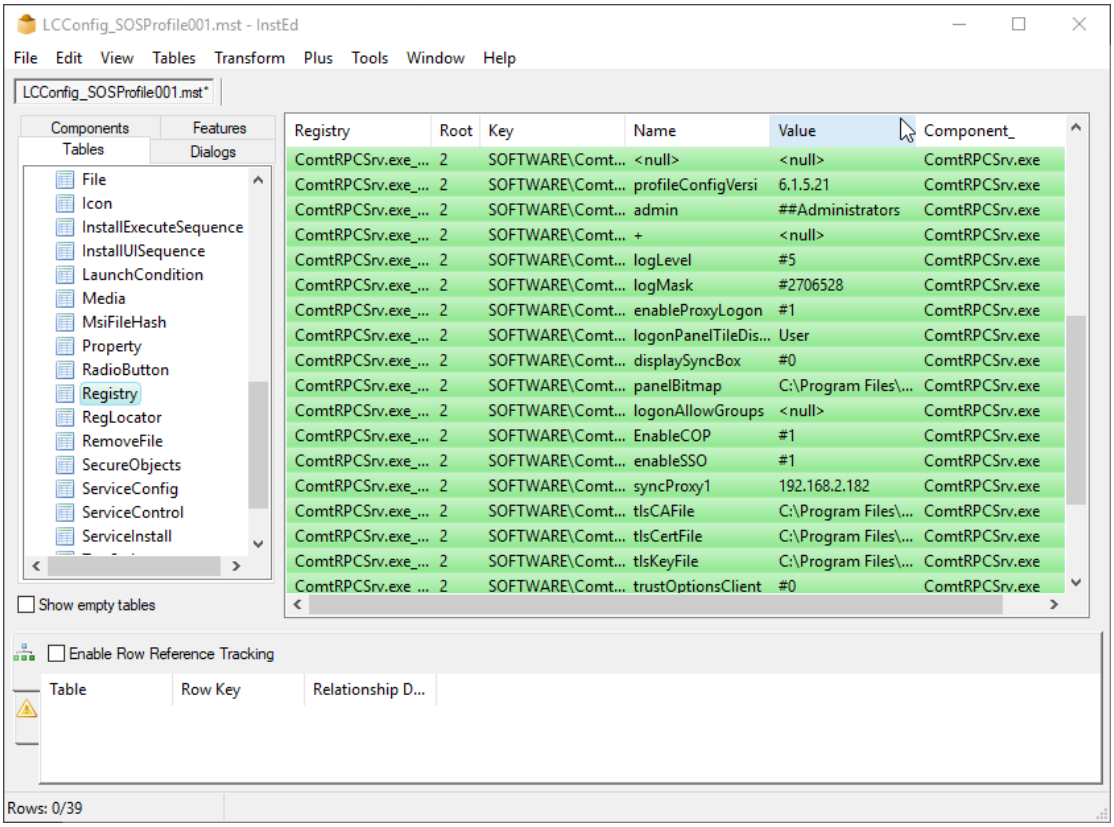


Select the registry file that contains a tested Comtarsia Logon Client configuration.

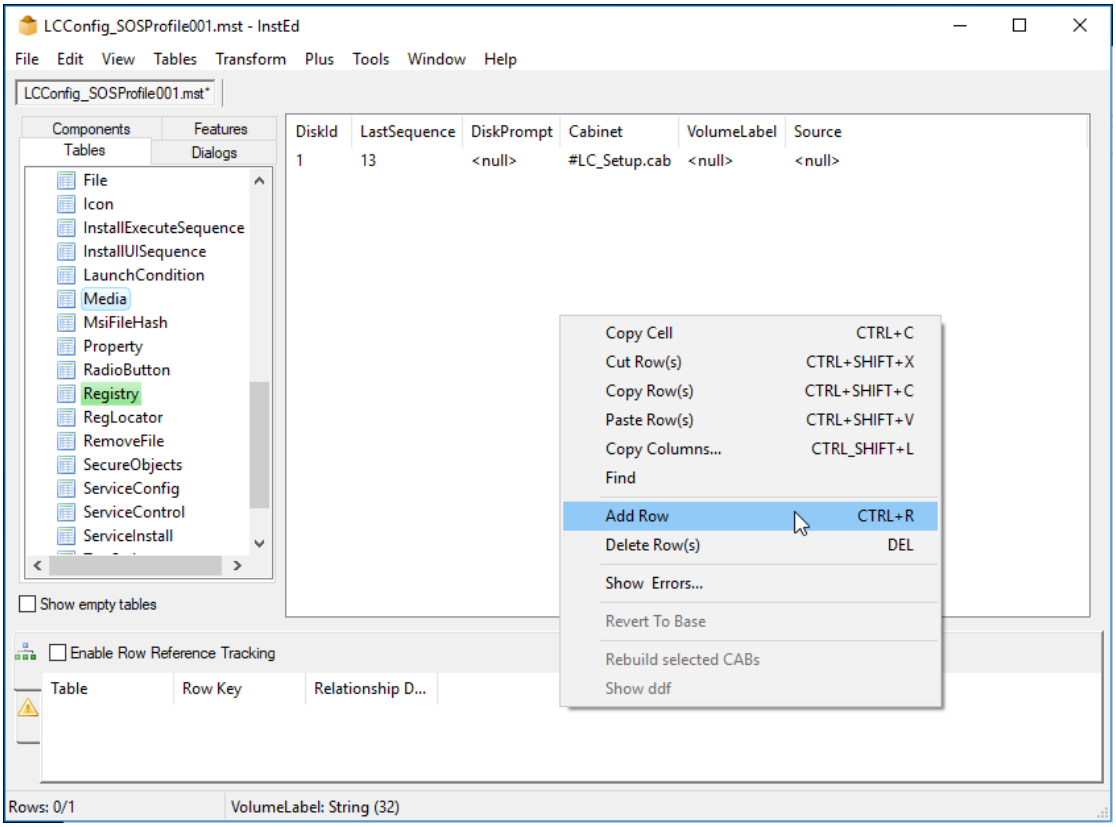


Do the same again for the registry file “LCConfig_LicenseKey.reg” which contains the license key configuration.

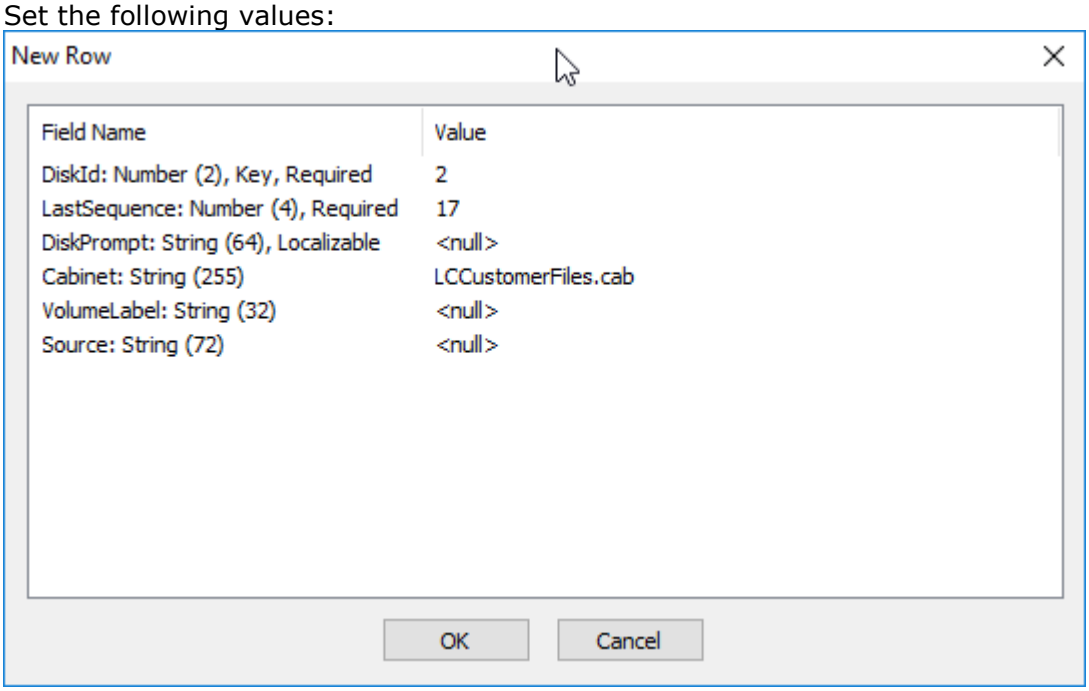
This will assign all the values of the selected registry files to the selected component. The added registry settings can be reviewed in the “Registry” table.


LCConfig_SOSProfile001.mst - InstEd
File Edit View Tables Transform Plus Tools Window Help
LCConfig_SOSProfile001.mst*
Components Features
Tables Dialogs
File
Icon
InstallExecuteSequence
InstallUISequence
LaunchCondition
Media
MsiFileHash
Property
RadioButton
Registry
RegLocator
RemoveFile
SecureObjects
ServiceConfig
ServiceControl
ServiceInstall
Show empty tables
Registry Root Key Name Value Component_
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... <null> <null> ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... profileConfigVersi 6.1.5.21 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... admin ##Administrators ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... + <null> ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... logLevel #5 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... logMask #2706528 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... enableProxyLogon #1 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... logonPanelTileDis... User ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... displaySyncBox #0 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... panelBitmap C:\Program Files\... ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... logonAllowGroups <null> ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... EnableCOP #1 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... enableSSO #1 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... syncProxy1 192.168.2.182 ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... tlsCAFile C:\Program Files\... ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... tlsCertFile C:\Program Files\... ComtRPCSrv.exe
ComtRPCSrv.exe_... 2 SOFTWARE\Comt... tlsKeyFile C:\Program Files\... ComtRPCSrv.exe
ComtRPCSrv.exe ... 2 SOFTWARE\Comt... trustOptionsClient #0 ComtRPCSrv.exe
Enable Row Reference Tracking
Table Row Key Relationship D...
Rows: 0/39

Switch to the “Media” table and add a new row:

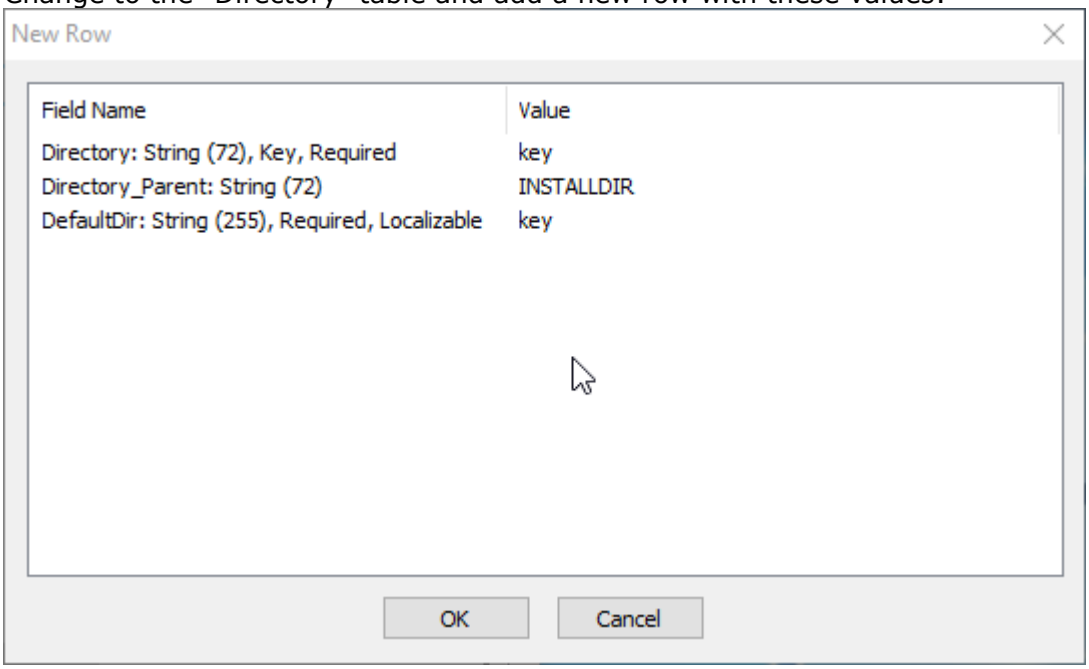


Set the following values:

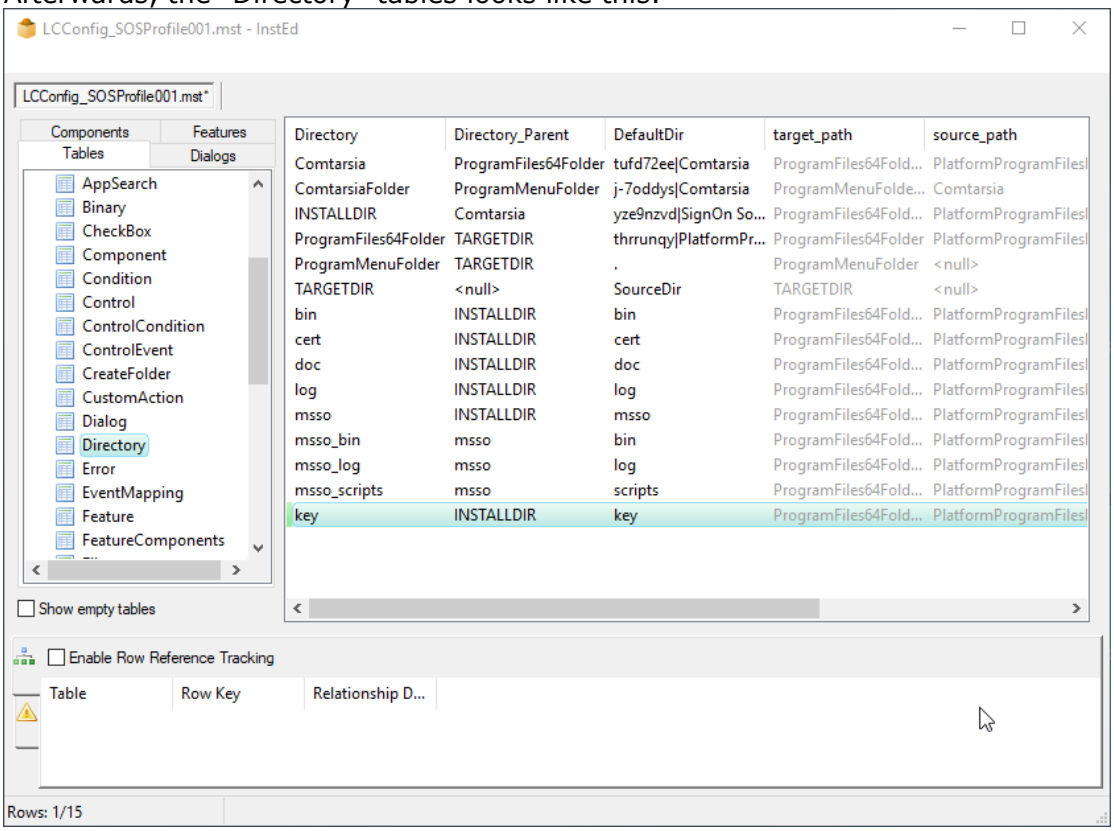


The “LastSequence” number is unique and starts at the “LastSequence” number from the previous cab-file. In this example, 4 files will be added, one license key and 3 certificates. Since the previous “LastSequence” number is 13, it has to be set to 17.

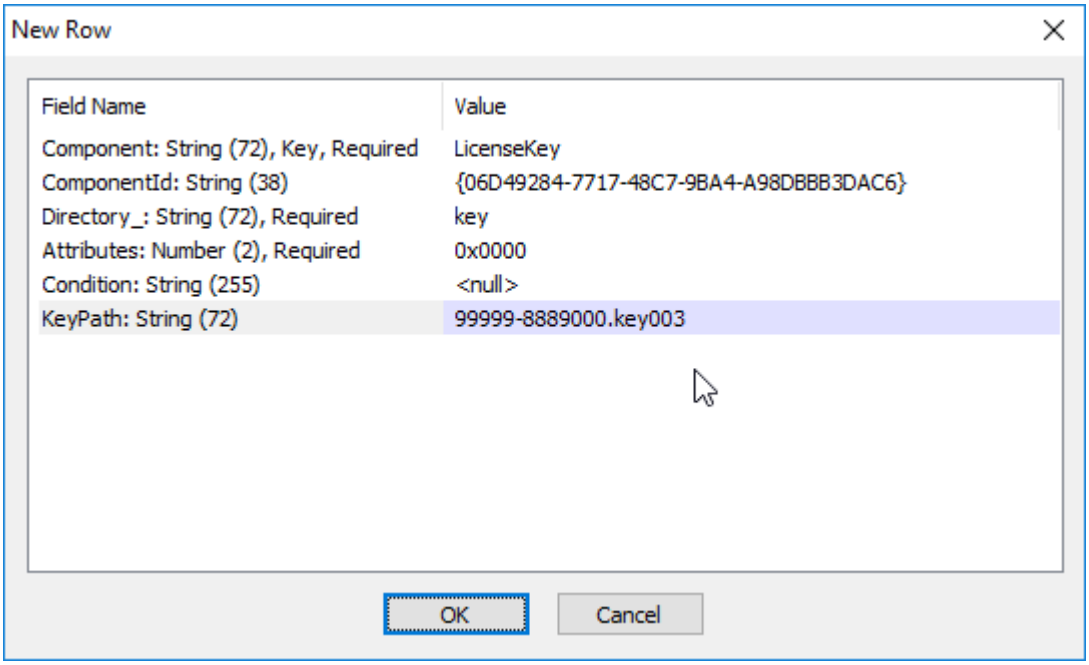
Change to the "Directory" table and add a new row with these values:



Afterwards, the "Directory" tables looks like this:

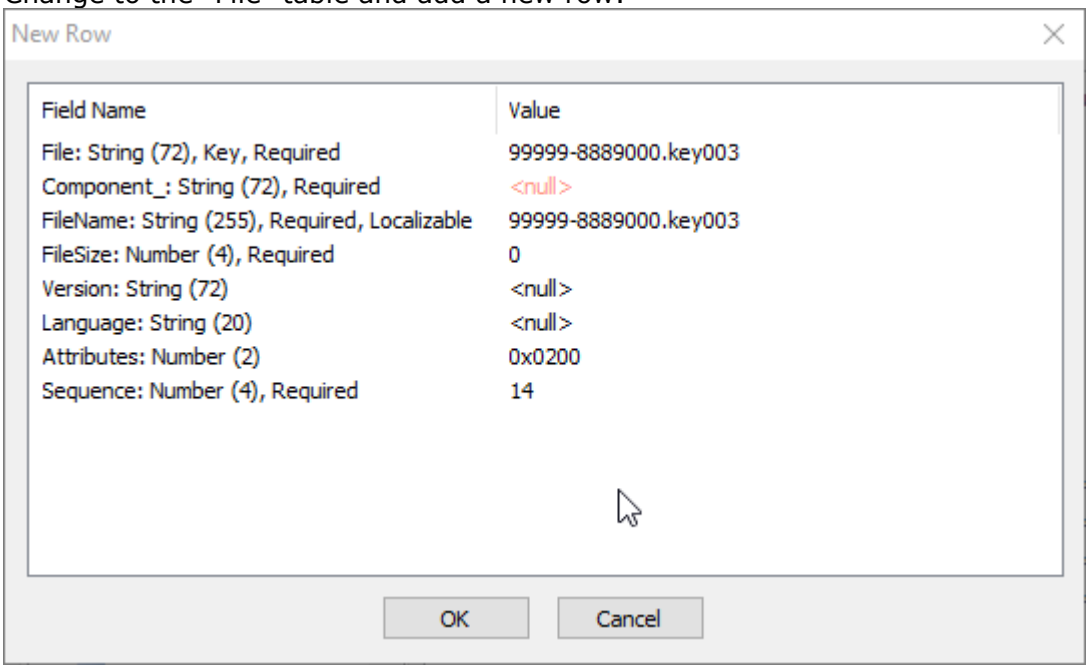


Change to the "Component" table and add a new row:

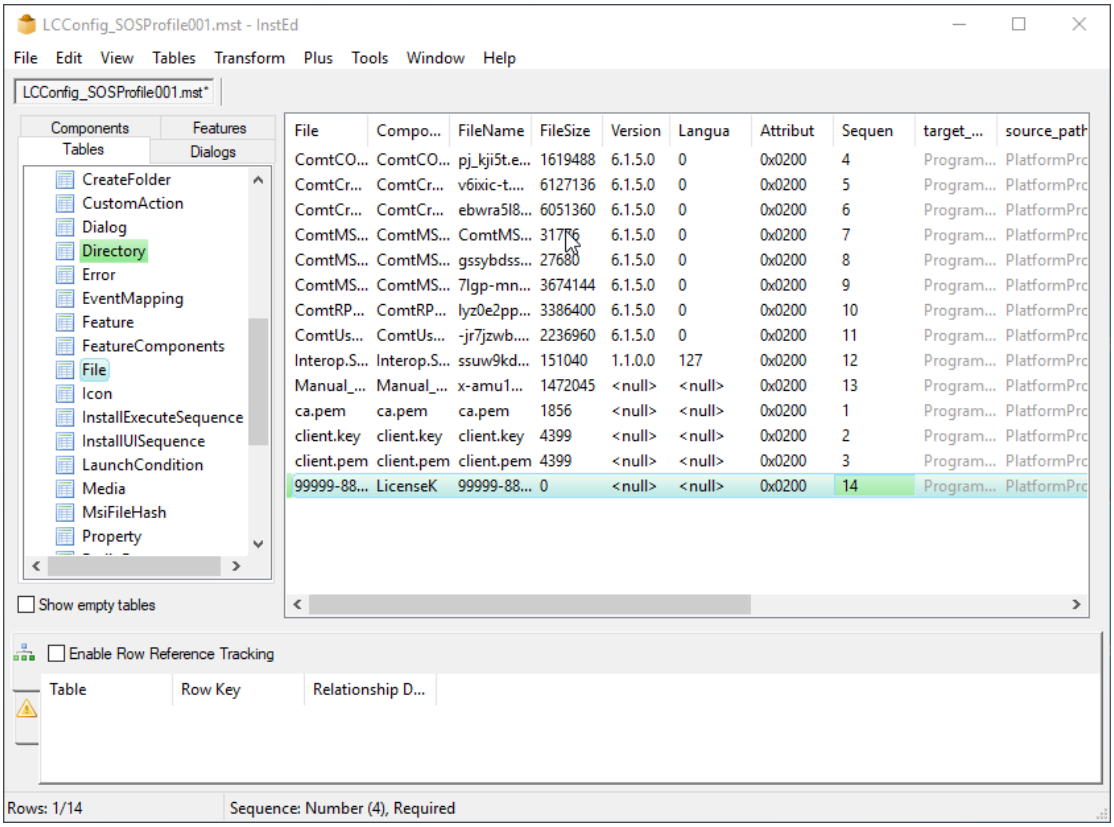


The "ComponentId" can be automatically created by clicking into the field and then pressing the little asterisk button to the right.

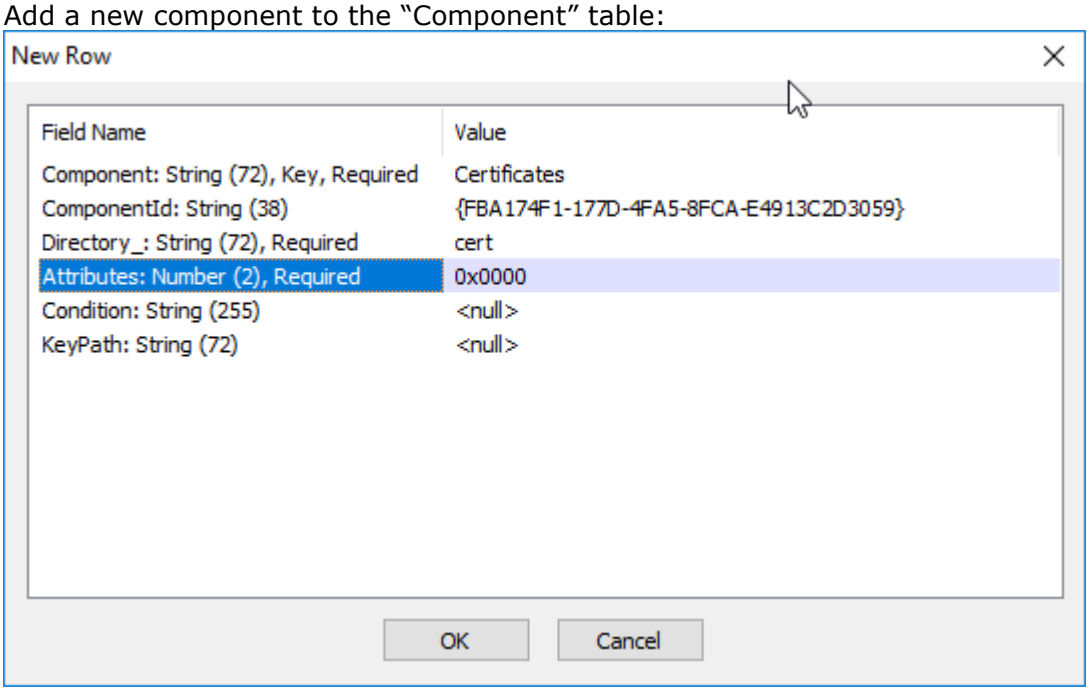
Change to the "File" table and add a new row:



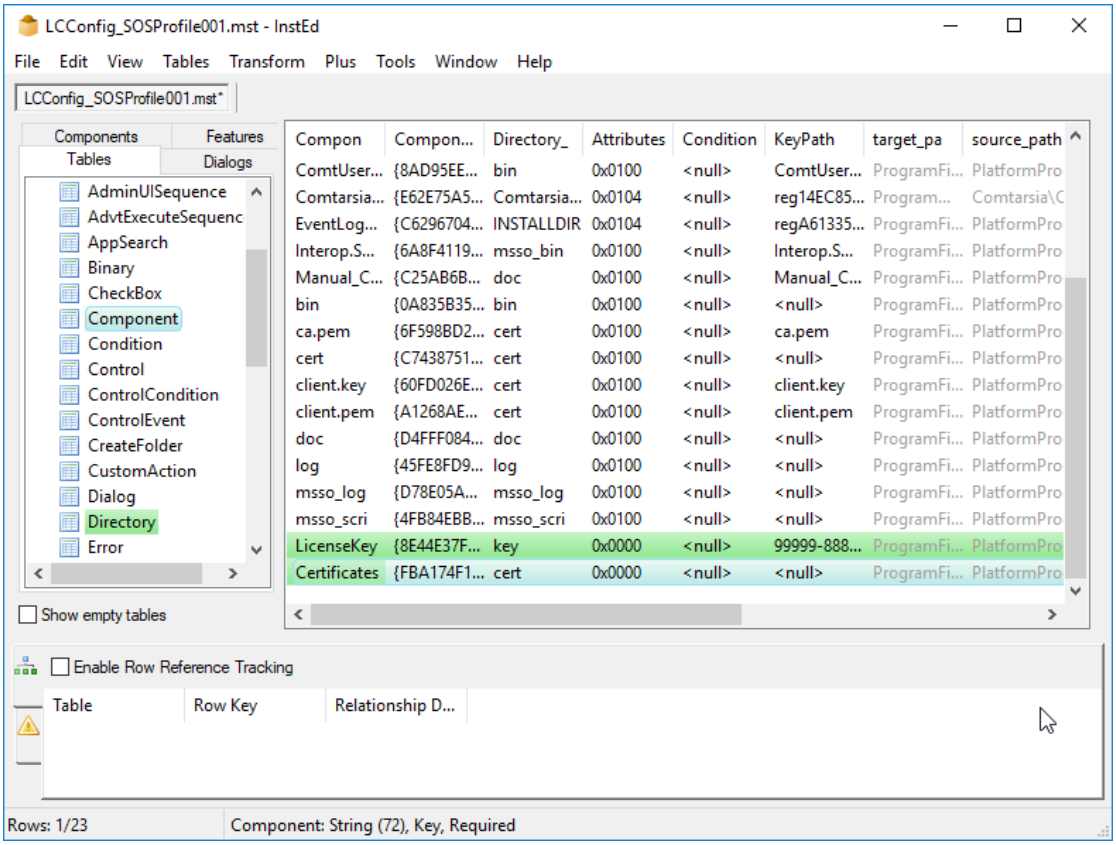
Afterwards, the "File" table look like this:



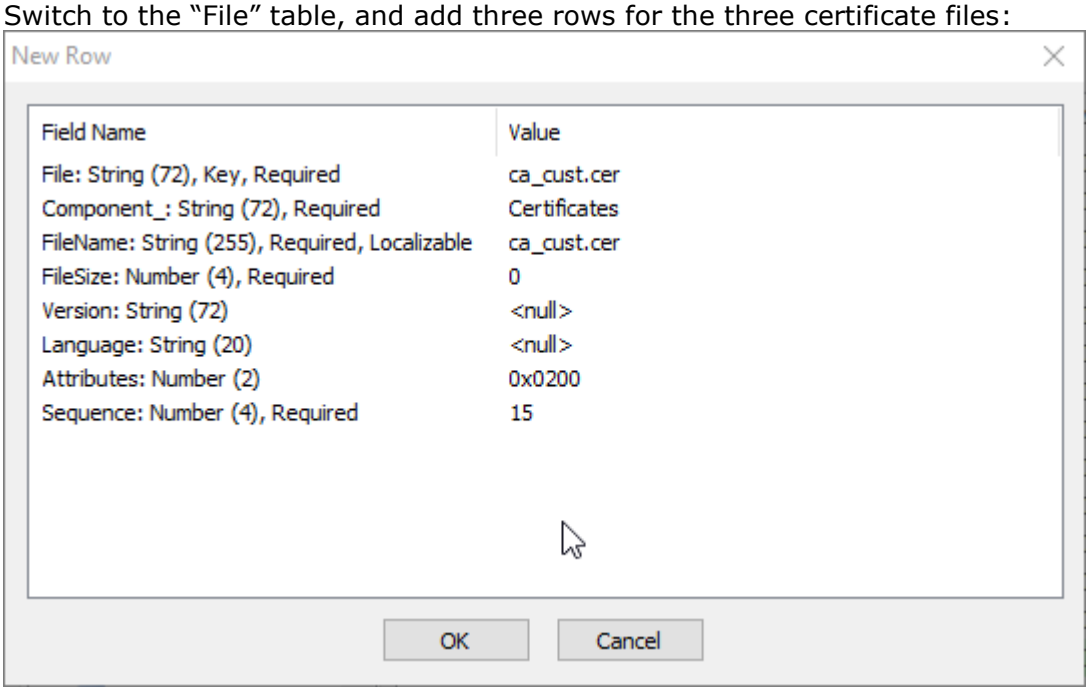
Now the certificates are added:
Add a new component to the "Component" table:

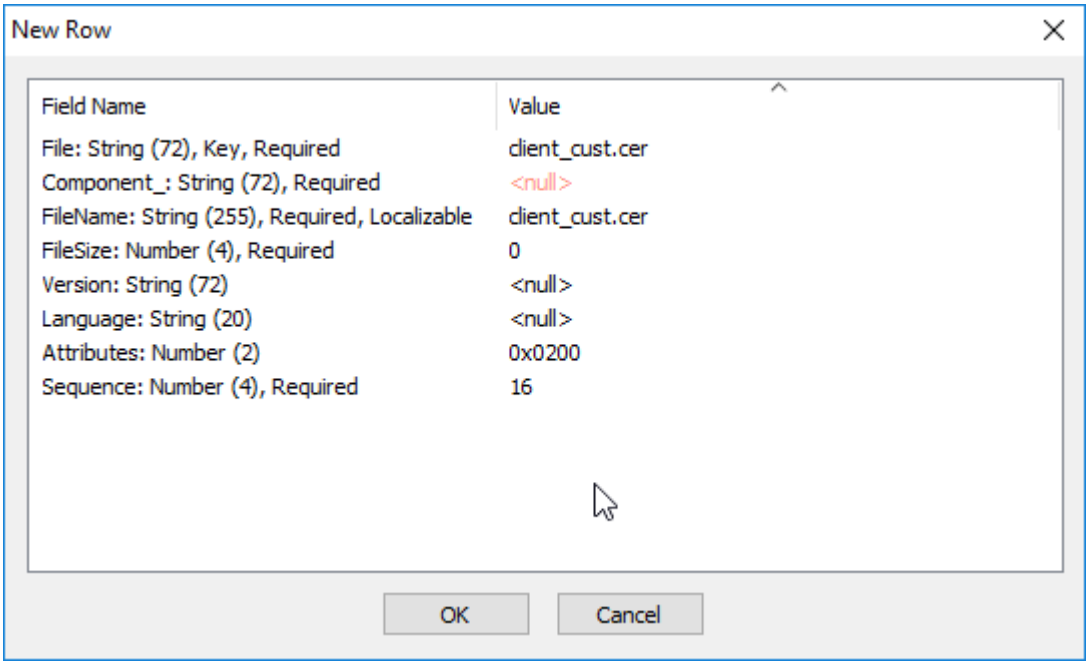


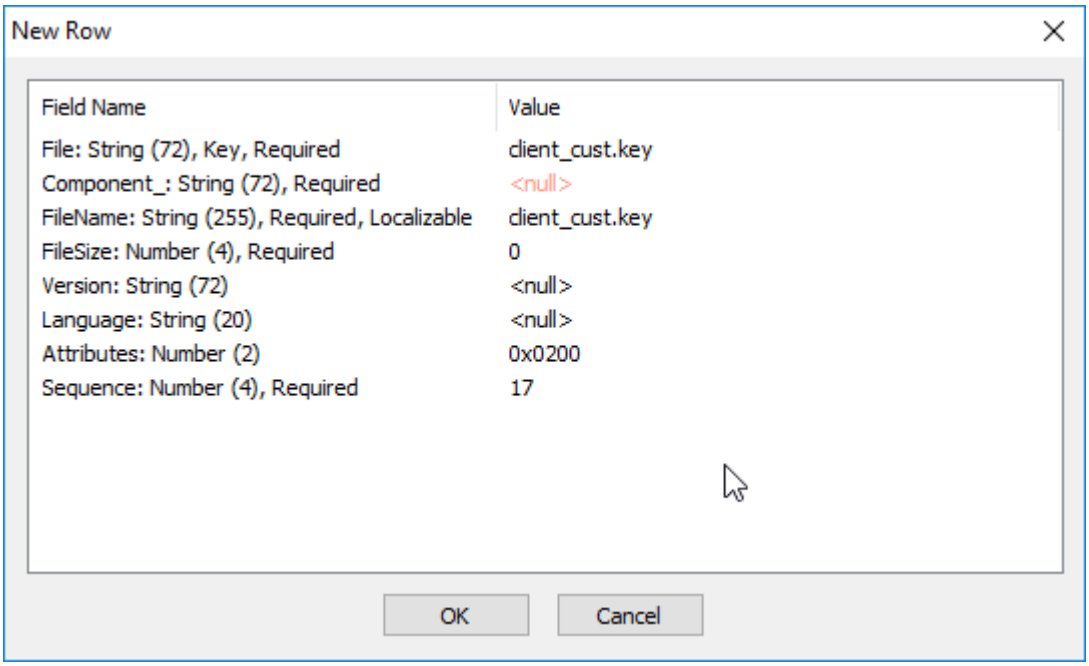
Now the "Component" table look like this:



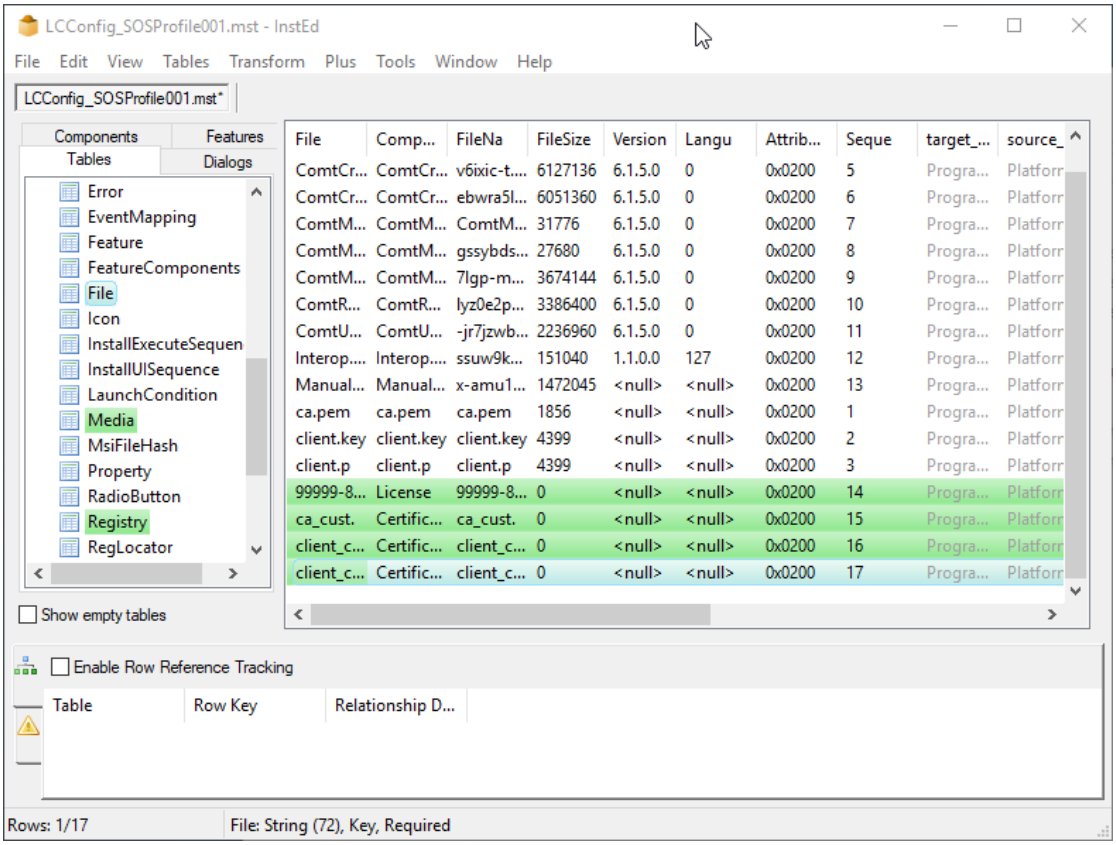
Switch to the “File” table, and add three rows for the three certificate files:



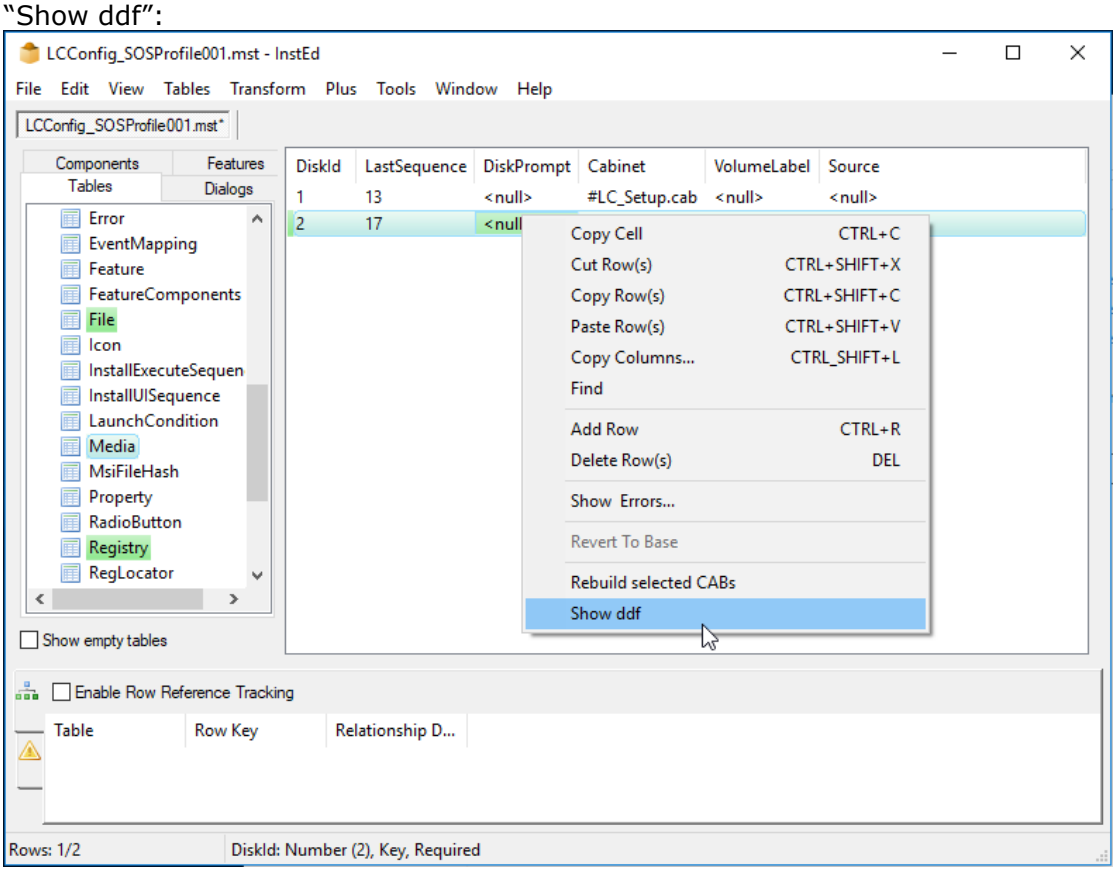




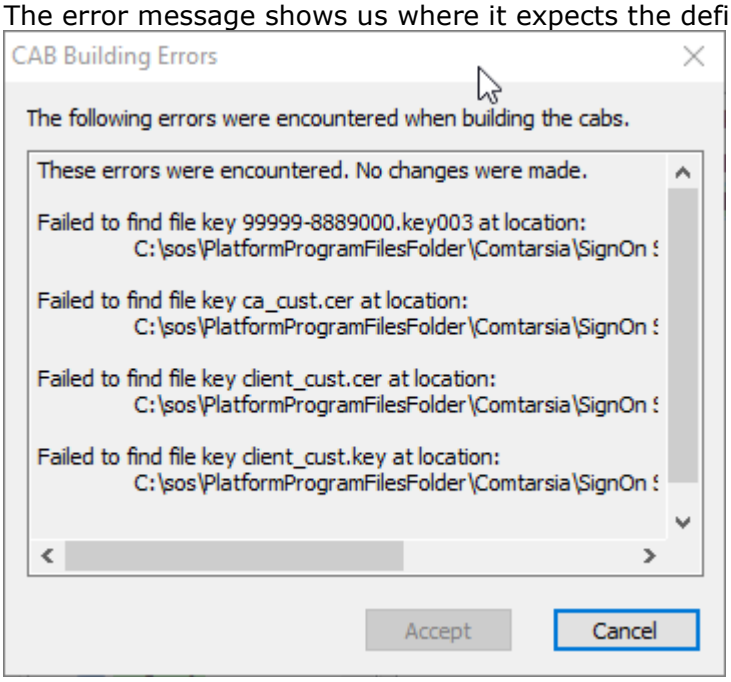
Afterwards, the "File" table looks like this:



Go to the "Media" table, select the previously added row, right-click and select "Show ddf":



This will show the definitions used to build the cab-file. These definitions are automatically generated based on the "Sequence"-numbers, the defined files and the "LastSequence"-numbers of the cab file definition.
Since the files we defined don't exist in the appropriate directories yet, this will give the following error.
The error message shows us where it expects the defined files:

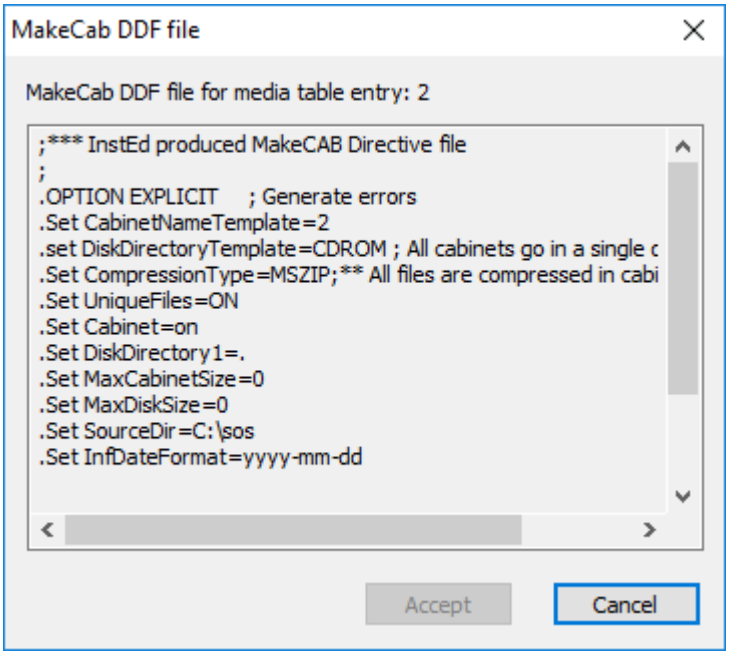


The license key fill be expected in:
`C:\sos\PlatformProgramFilesFolder\Comtarsia\SignOn Solutions 2016\key\99999-8889000.key003`

The certificates should be here:
`C:\sos\PlatformProgramFilesFolder\Comtarsia\SignOn Solutions 2016\cert\ca_cust.cer`
`C:\sos\PlatformProgramFilesFolder\Comtarsia\SignOn Solutions 2016\cert\client_cust.cer`
`C:\sos\PlatformProgramFilesFolder\Comtarsia\SignOn Solutions 2016\cert\client_cust.key`

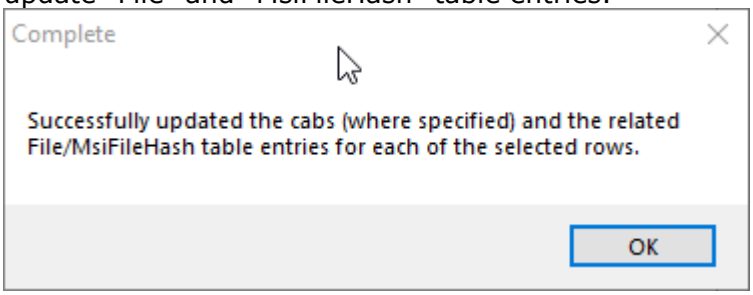
Create these directories and copy the appropriate files to them.

When you select "Show ddf" again, no more error is shown:

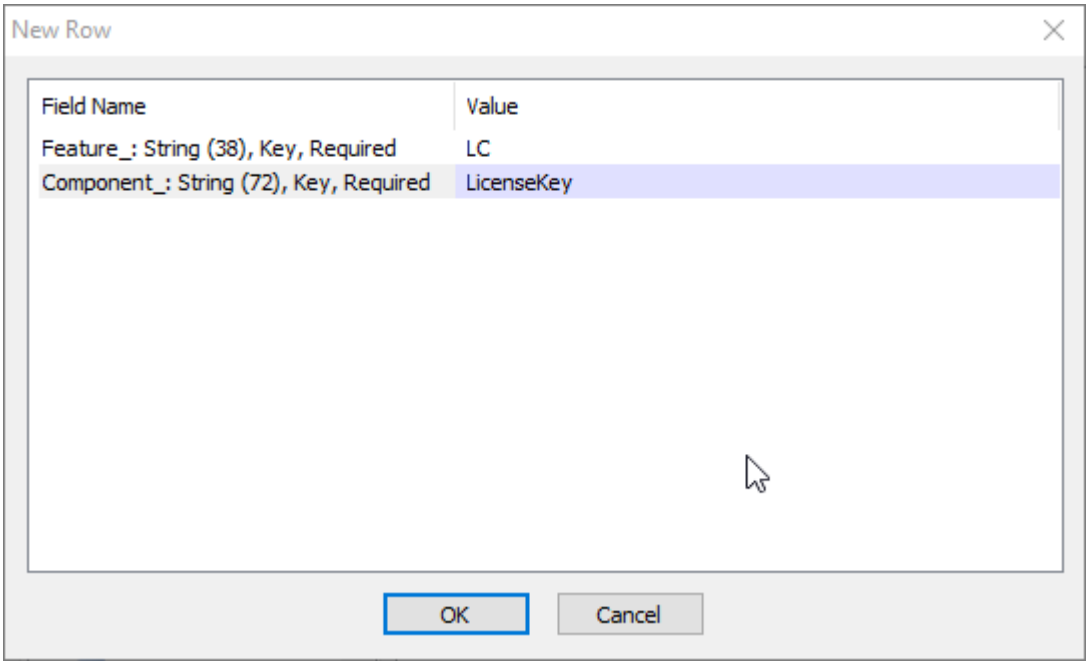


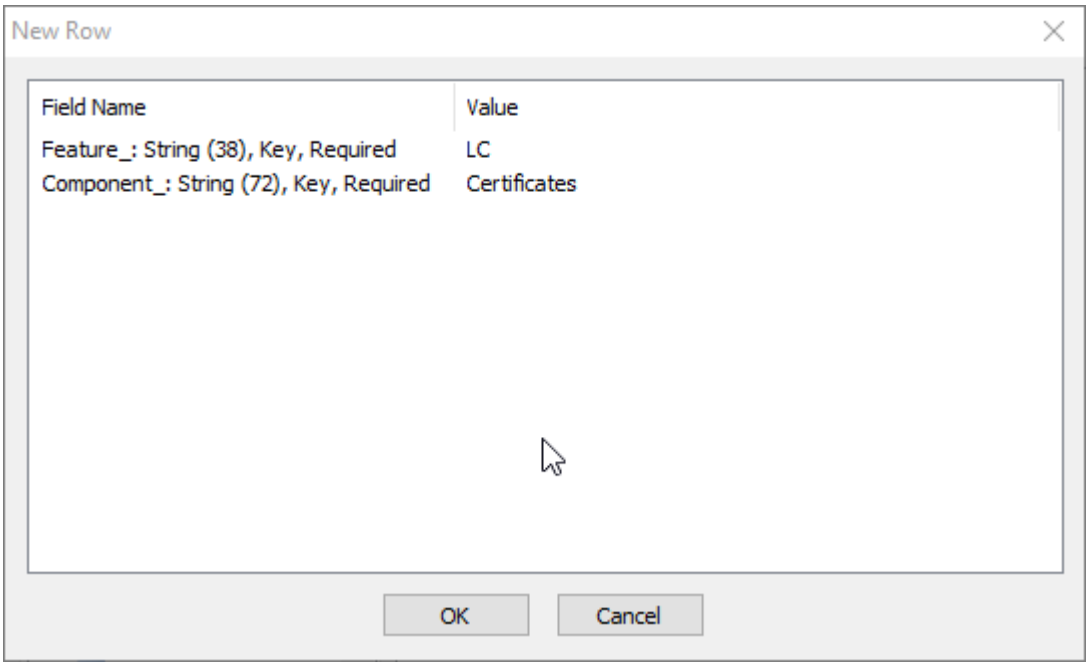
Right-click onto the cab-file row again, then click on "Rebuild selected CABs".

This will create a new cab-file in the working directory (LCCustomerFiles.cab) and update "File" and "MsiFileHash" table entries.

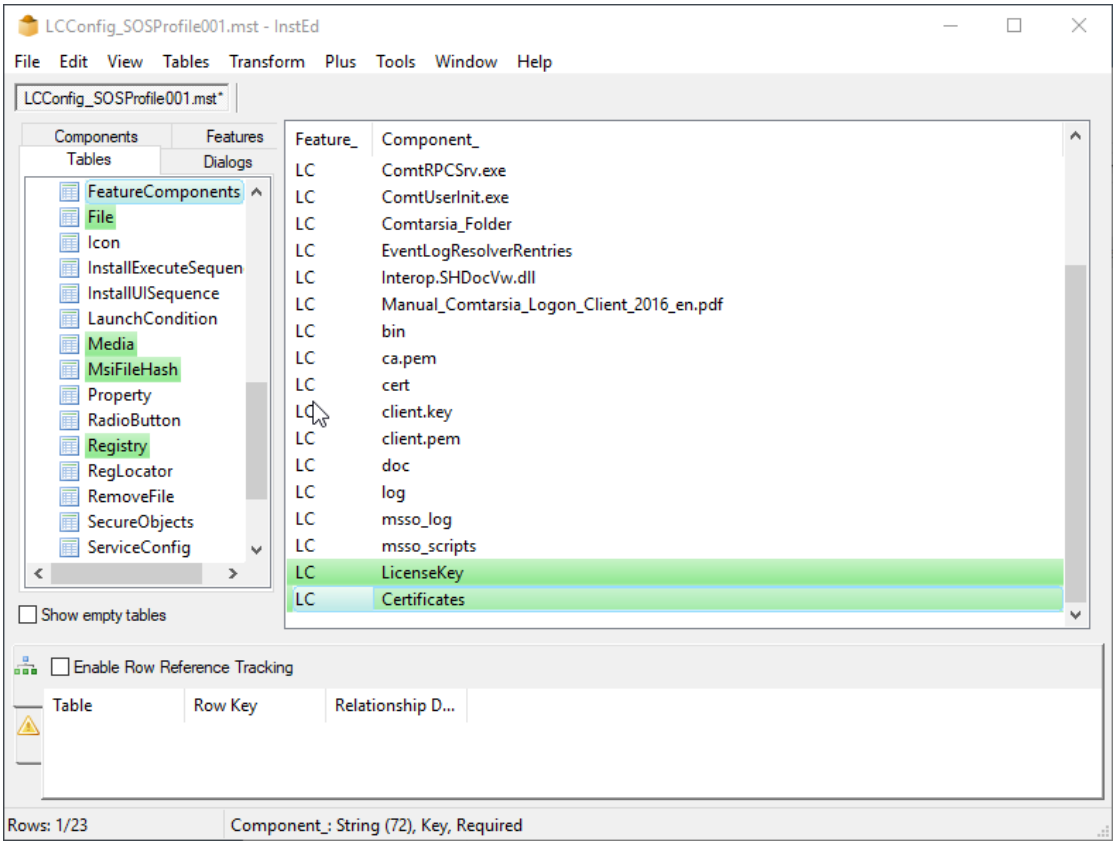


Switch to the "FeatureComponents" table and add two new rows.
Enter the following values to bind the newly created components to the LC feature:

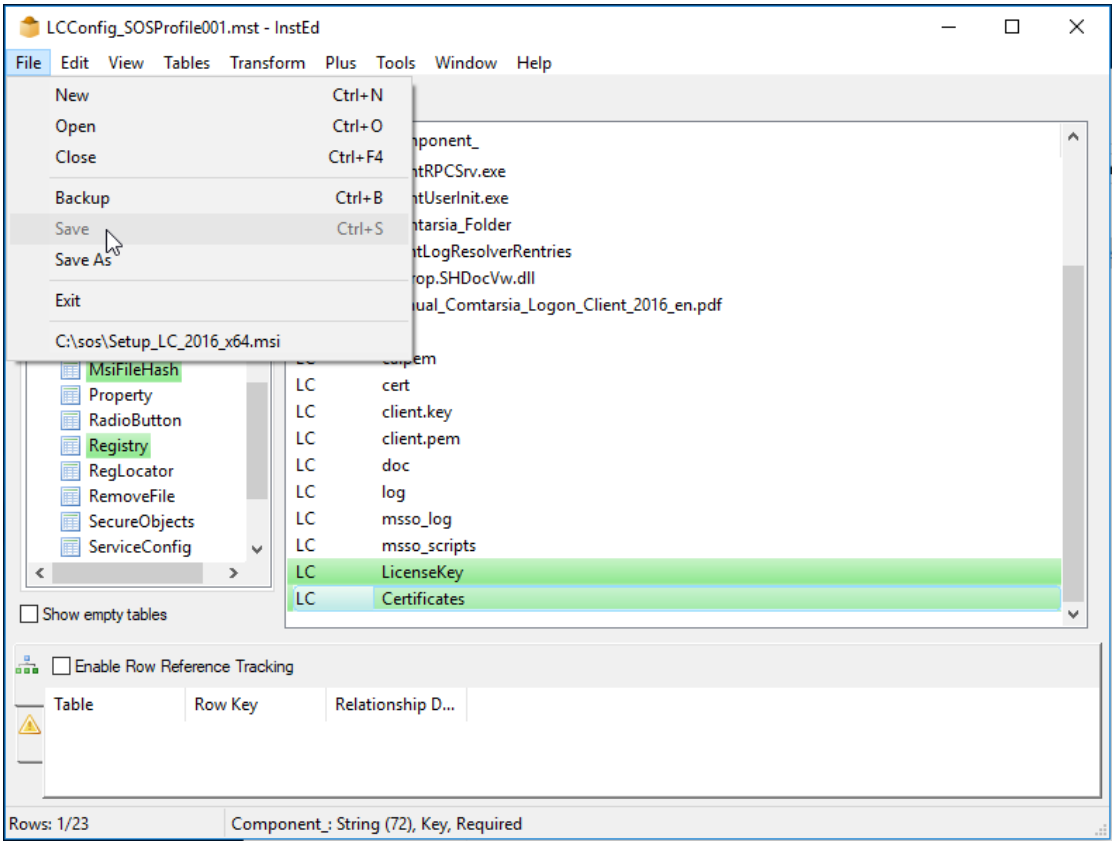




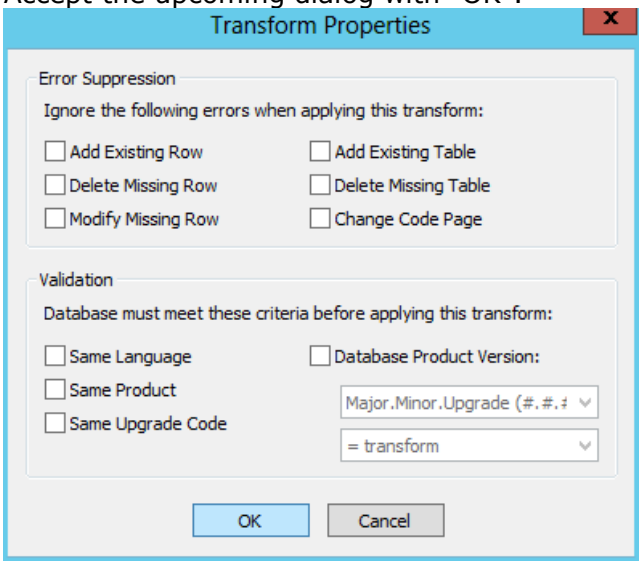
The resulting "FeatureComponents" table:



Save the LCCustomerFiles.mst



Accept the upcoming dialog with “OK”.



4. Manual installation with MSIEXEC

It is possible to install the Comtarsia Logon Client 2016 MSI together with the prepared MSI transform via the command line.

The install transform (mst) should contain all customer specific files (licence key, certificates, customized images) and registry values needed for the Comtarsia Logon Client.

To install/update/uninstall the packages manually, the "msiexec" command is used.

For a first test of the newly created mst file you can omit the "/q" parameter, to see exactly what happens.

The following parameters will be used:

/i "path to msi"
Installs the specified MSI file.

/l*v c:\lcinstall.log
Enables verbose logging of the MSI installation and appends the output to the file specified.

/q
Enables silent installation without user input.

TRANSFORMS="transform1.mst;transform2.mst"
Specifies a list of transforms to be applied to the MSI file during installation. The list of files is separated by semicolons.

REINSTALL=ALL **REINSTALLMODE**=vamus
Tells msiexec to reinstall (update) the product

/x "path to msi"
Uninstalls the specified MSI file.

/norestart
This parameter can be optionally added to prevent the installer from automatically restarting the computer.

A detailed description of all msiexec command line parameters can be found here:
http://technet.microsoft.com/en-us/library/cc759262(v=ws.10).aspx

Initial install:

```
msiexec /i Setup_lc_2016_x64.msi /q /l*v lcinstall.log
TRANSFORMS="LCConfig.mst"
```

Update:

```
msiexec /i Setup_lc_2016_x64.msi /q /l*v lcinstall.log
TRANSFORMS="LCConfig.mst" REINSTALL=ALL REINSTALLMODE=vamus
```

Uninstall:

```
msiexec /x Setup_lc_2016_x64.msi
```