



DTX Studio™ Implant

Version 3.6

Silent Installation

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Scope

This document describes the interface of the DTX Studio Implant silent installation and configuration procedure.

This procedure was created to allow large practices to install DTX Studio Implant on a number of machines from a central point of control. This also facilitates batch installations and upgrades via a remote administrative tool, like Microsoft System Center Configuration Manager (SCCM).

This document sets apart the administrative aspect (operating system specific installation procedures) and functional aspect post-installation (DTX Studio Implant configuration). It attempts to create a comprehensive overview of the general installation procedure for a large practice with centralized administration workflow.

In short, the silent installation procedure is a two-step approach to be done by a system administrator:

1. Install DTX Studio Implant using InstallShield command line (silent installation). This is currently only supported for Windows networks. (See “Silent Installation Instructions (Windows)” on page 4).
2. Run DTX Studio Implant the first time via command line and with administrative privileges to do the silent configuration procedure. This step is OS independent. (See “Prerequisites” on page 10)

Silent Installation Instructions (Windows)

To start the installer in silent mode, start it with the following command line parameters:

```
DTXStudioImplant(x64)_x.x.x.x.exe /s /v"/qn"
```

Silent Installation Instructions for Mac?

Currently there is no solution yet for a silent installation of the Mac .pkg installer. If this is a requirement for your company please contact DTX Studio Technical Support (support@dtxstudio.com).

Silent Configuration

Prerequisites

An internet connection is needed to successfully validate an installation of the DTX Studio Implant software.

Make sure to always close all instances of DTX Studio Implant before attempting this silent configuration.

Running the executable with the silent configuration parameters while DTX Studio Implant still running will not work. Typically though, the configuration does not need to be executed again when updating an existing installation, so this is no issue in most cases.

Clean Installation

After a clean installation, invoking the DTX Studio Implant executable with specific command line parameters will launch the application in silent configuration mode, running the setup wizard without making use of the GUI. This is only needed for a fresh install (See “Updating DTX Studio Implant” on page 5).

Calling the executable with these parameters must be done with administrative privileges.

Updating DTX Studio Implant

In an upgrade scenario, typically no silent configuration needs to be executed anymore. The existing license can be used with the new version if still valid.

Command Line Interface

There is a set of command line parameters that allow users/administrators to configure their installation of DTX Studio Implant:

Parameter	Description	Information
<code>--key</code>	Installation key	Installation key from DTX Studio License Server
<code>--dataDir</code>	Data directory	Data location for program data.
<code>--teamFolder</code>	Team Folder	Location for the team folder.
<code>--ilf</code>	Implant Library File	Implant products file.

Installation Key

The installation key is an alpha-numeric string e.g. AAB3D-3ABAE-5D4AF-4929A12B14-8771C05. To get the key go to DTX Studio Go (go.dtxstudio.com). The portal is best viewed with Chrome or Edge browsers.

On the [Software](#) page, click the DTX Studio Implant license. On the DTX Studio Implant license page, copy the installation key.

When the key is different from its current license, then it will update to a new license.

Installation Data Directory

The installation data directory is the location of a single central directory where DTX Studio Implant saves all of its application data. This should be the full path to a location on disk (not a network folder!), accessible to all user(s) who might log on to the machine. All data in this folder will be stored in an encrypted way. The folder will be created if it does not exist yet and user permissions will be set accordingly. If not available, the default path will be applied:

- `C:/DTX Studio/Implant/` on Windows
- `/Users/Shared/DTX Studio/Implant/` on Mac

Team Folder

This directory is used for the clinicians shared patients and is the same for all users in this site.

When a new Team folder is set, then it will be adjusted for all these users.

Implant Library File

This file will be used to install all implant products into the products folder within the Data directory.

Example

Run the following command, for example, with administrative privileges:

```
C:\Program Files\DTX Studio Implant\DTXImplant.exe --key "01234-56789-ABCDE-F01234-56789-ABCDEF" --dataDir "C:\ProgramData\DTXStudio\Implant"
--teamFolder "C:\ProgramData\DTXStudio\TeamFolder " --ilf "C:\Data\Products\
ImplantLibrary_x_y.ilf
```

This will result in an installation of DTX Studio Implant.

The license key used for registration is
'01234-56789-ABCDE-F01234-56789-ABCDE'.

Its data directory will be set to
'C:\ProgramData\DTX Studio\Implant'.

If an installation is already present on that machine, it will be replaced.

Output

The installation procedure provides a result code to the caller, providing more information on the outcome of the installation.

0	Success
1	Preconditions not met
2	Updating data directory failed
3	Default data dir initialization failed
4	License registration failed
5	Updating team folder failed
6	Installing products failed

Sample Script

The following script is a sample PowerShell script that first installs and subsequently configures the DTX Studio Implant application.

```
## DTX Studio Implant Software Installation

Start-Process "DTXStudioImplant(x64)_3.6.4.2.exe" -ArgumentList '/s /v"/ qn"'
-WindowStyle hidden -Wait

## DTX Studio Implant Command Line Configuration

$ExecutableLocation = "C:\Program Files\DTX Studio Implant\DTXImplant.exe"
$InstallationKey = "01234-56789-ABCDE-F01234-56789-ABCDEF"
$DataDirectory = "C:\DTX Studio\Implant"
$TeamFolder = "C:\DTX Studio\TeamFolder"
$ilfFile = "C:\Data\Products\ImplantLibrary_3_6.ilf"

Start-Process -FilePath $ExecutableLocation -ArgumentList "--key ""
$InstallationKey "" --dataDir ""$DataDirectory"" --teamFolder ""$TeamFolder""
--ilf "$ilfFile"" " -WindowStyle hidden -Wait
```

SCCM Application Creation Guide (Windows)

This step-by-step section helps configuring DTX Studio Implant for SCCM (Microsoft System Center Configuration Manager). The steps are accompanied by screenshots.

Prerequisites

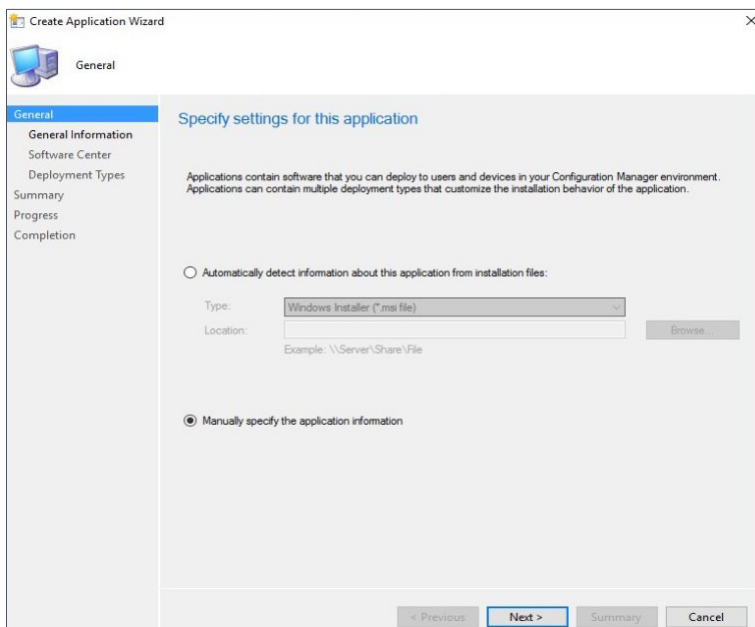
The DTX Studio Implant installer has dependencies on Visual Studio redistributables. It will install (or upgrade) them if not yet present on the system, but this may trigger unwanted reboots during the SCCM installation. For this reason we recommend creating SCCM packages for these dependencies and set them as requirements for the DTX Studio Implant SCCM package.

Currently the dependencies are:

- Microsoft Visual C++ 2012 Redistributable (x64) - 11.0.61030 (or higher)
- Microsoft Visual C++ 2015-2019 Redistributable (x64) - 14.23.27820 (or higher)

Single Application Package with PowerShell Script

1. Copy the source files to a network location.
2. Click the [Create Application](#) icon.
3. Select [Manually specify the application information](#).



4. Fill in the **General Information** details.

The screenshot shows the 'Create Application Wizard' dialog box with the 'General Information' tab selected. The left sidebar contains a tree view with 'General Information' highlighted. The main area is titled 'Specify information about this application'. It contains several input fields: 'Name' (DTX Studio Implant), 'Administrator comments' (empty), 'Publisher' (Medicim NV), 'Software version' (3.6.4.2), 'Optional reference' (empty), 'Administrative categories' (empty with a 'Select...' button), and 'Date published' (9/30/2020). Below these is a section for 'Specify the administrative users who are responsible for this application.' with 'Owners' and 'Support contacts' (both 'eb.sys' with 'Browse...' buttons). At the bottom are '< Previous', 'Next >', 'Summary', and 'Cancel' buttons.

5. Fill in the **Software Center** details.

The screenshot shows the 'Create Application Wizard' dialog box with the 'Software Center' tab selected. The left sidebar contains a tree view with 'Software Center' highlighted. The main area is titled 'Specify the Software Center entry'. It contains a 'Selected language' dropdown (English (United States) default) and an 'Add/Remove...' button. Below is a section for 'Localized application name' (DTX Studio Implant) with an 'Edit...' button. There are also fields for 'User categories' (empty), 'User documentation' (empty with a 'Browse...' button), 'Link text' (empty), 'Privacy URL' (empty), and 'Localized description' (empty text area). At the bottom is a 'Keywords' field (empty) and an 'Icon' field (empty with a 'Browse...' button). A checkbox 'Display this as a featured app and highlight it in the company portal' is unchecked. At the bottom are '< Previous', 'Next >', 'Summary', and 'Cancel' buttons.

6. Set the **Deployment Type** to **Script Installer**.

The screenshot shows the 'Create Deployment Type Wizard' dialog box with the 'General' tab selected. The left sidebar lists the steps: General, General Information, Content, Detection Method, User Experience, Requirements, Dependencies, Summary, Progress, and Completion. The main area is titled 'Specify settings for this deployment type'. It contains a 'Type:' dropdown menu set to 'Script Installer'. Below it, there are two radio buttons: 'Automatically identify information about this deployment type from installation files' (unselected) and 'Manually specify the deployment type information' (selected). A 'Location:' text box is present with a 'Browse...' button and an example path '\Server\Share\File'. At the bottom, there are navigation buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

7. Enter the details of the **Deployment General Information**.

The screenshot shows the 'Create Deployment Type Wizard' dialog box with the 'General Information' tab selected. The left sidebar lists the steps: General, General Information, Content, Detection Method, User Experience, Requirements, Dependencies, Summary, Progress, and Completion. The main area is titled 'Specify general information for this deployment type'. It contains a 'Name:' text box with 'Installation' entered. Below it is an 'Administrator comments:' text box. At the bottom, there is a 'Languages:' dropdown menu and a 'Select...' button. At the bottom of the dialog, there are navigation buttons: '< Previous', 'Next >', 'Summary', and 'Cancel'.

8. Enter the full UNC path to the network location of the source files for the Content Location.
If you used the sample PowerShell script, the Installation Program is
`powershell.exe -executionpolicy bypass -nologo -noprofile -file ".\Install_DTX_Studio_implant.ps1"`
The Uninstall Program is
`MsiExec.exe /X{{816FA862-BBC7-41EC-A48B-AE4AE6C3226C}} /qn /norestart`

Note

The product ID may change depending on the DTX Studio Implant version being installed. Check the registry for the correct product ID.

Create Deployment Type Wizard

Content

General
General Information
Content
Detection Method
User Experience
Requirements
Dependencies
Summary
Progress
Completion

Specify information about the content to be delivered to target devices

Specify the location of this deployment type's content and other settings that control how content is delivered to target devices. All the contents in the path specified will be delivered.

Content location: Browse...

☐ Persist content in the client cache

Specify the command used to install this content.

Installation program: Browse...

Installation start in:

Configuration Manager can remove installations of this content if an uninstall program is specified below.

Uninstall program: Browse...

Uninstall start in:

☐ Run installation and uninstall program as 32-bit process on 64-bit clients.

< Previous Next > Summary Cancel

9. Configure the detection rule **Setting Type** to **Windows Installer**. Enter product ID from the registry. It will be the same Product ID used by the uninstall string in the previous step.

Detection Rule

Create a rule that indicates the presence of this application.

Setting Type: Windows Installer

Specify an MSI product code as the basis for this rule.

Product code: {816FA862-BBC7-41EC-A48B-AE4AE6C3226C} Browse ...

☒ This MSI product code must exist on the target system to indicate presence of this application

☐ This MSI product code must exist on the target system and the following condition must be met to indicate presence of this application:

MSI Property: Version

Operator: Equals

Value:

OK Cancel

10. Configure the **User Experience** settings.

Create Deployment Type Wizard

User Experience

General
General Information
Content
Detection Method
User Experience
Requirements
Dependencies
Summary
Progress
Completion

Specify user experience settings for the application

Installation behavior: Install for system if resource is device; otherwise install for user

Logon requirement: Whether or not a user is logged on

Installation program visibility: Hidden

☐ Allow users to view and interact with the program installation

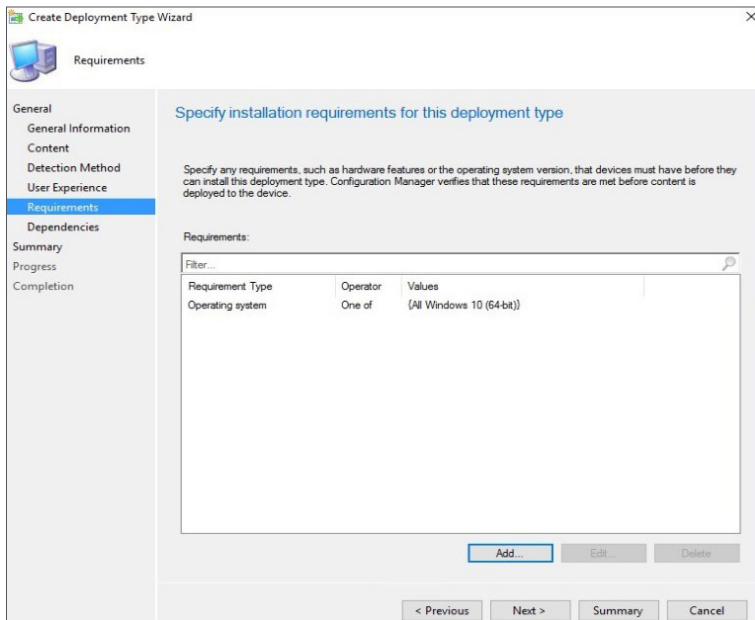
Specify the maximum run time and estimated installation time of the deployment program for this application. The estimated installation time displays to the user when the application installs.

Maximum allowed run time (minutes): 120

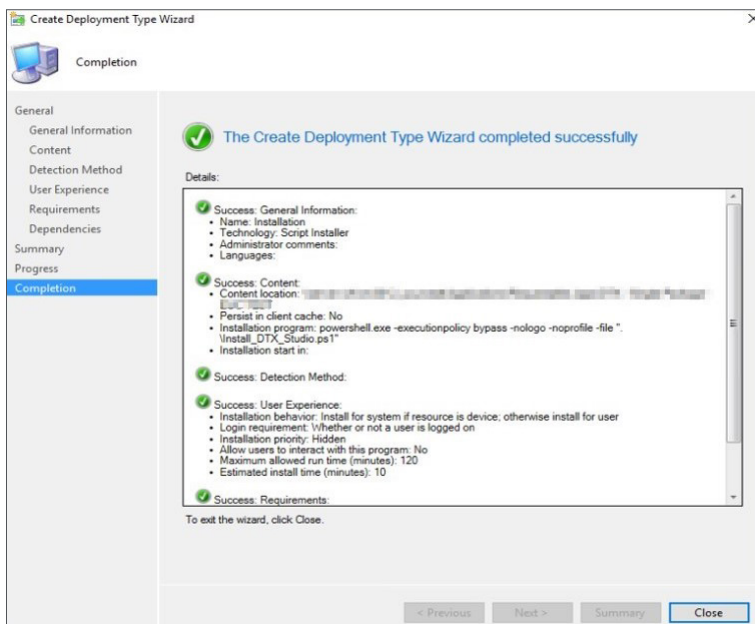
Estimated installation time (minutes): 10

< Previous Next > Summary Cancel

11. Configure the **Requirements** to **Windows 10 64-bit**.



12. There are no **Dependencies** to configure at this time.
13. Click **Summary** to review the summary screen and click **Next**.
14. Click Close to close the **Completion** screen.



15. Close the remaining application creation dialog boxes.

Technical Support

If you encounter any problems during the installation, please contact DTX Studio Technical Support:

- support@dtxstudio.com
- <https://tech.dexis.com/support>

For North America:

- dtxsupport.na@dexis.com
- Phone number: +1-833-389-2255



Nobel Biocare AB
Box 5190, 402 26
Västra Hamngatan 1,
411 17 Göteborg,
Sweden

www.nobelbiocare.com

Sponsor and Distributed in Australia by:

Nobel Biocare Australia Pty Ltd
Suite 4.02, Level 4, Building A,
1 Eden park drive Macquarie Park NSW 2113
Australia

Phone: +61 1800 804 597

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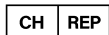
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Takanini, Auckland, 2105
New Zealand

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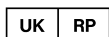
EOT Dental
Sağlık Ürünleri ve Dış Ticaret A.Ş.
Nispetiye Mah. Aytar Cad.
Metro İş Merkezi No: 10/7
Beşiktaş İSTANBUL

Phone: +90 2123614901



CH importer/representative:

Nobel Biocare Services AG
Balz Zimmermann-Strasse 7
8302 Kloten
Switzerland



UK responsible person:

Nobel Biocare UK Ltd.
4 Longwalk Road
Stockley Park
Uxbridge UB11 1FE
United Kingdom



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