



DTX Studio™ Core

Version 4.0

Installation Guide

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Welcome

Disclaimer of Liability

This product is part of an overall concept and may only be used in conjunction with the associated original products according to the instructions and recommendations of Nobel Biocare, hereinafter referred to as 'the Company'. Non-recommended use of products made by third parties in conjunction with products of the Company will void any warranty or other obligation, express or implied. The user has the duty to determine whether or not any product is suitable for the particular patient and circumstances. The Company disclaims any liability, express or implied, and shall have no responsibility for any direct, indirect, punitive or other damages, arising out of or in connection with any errors in professional judgment or practice in the use of these products. The user is also obliged to study the latest developments in regard to this product and its applications regularly. In cases of doubt, the user has to contact the Company. Since the utilization of this product is under the control of the user, it is his/her responsibility. The Company does not assume any liability whatsoever for damage arising thereof.

Please note that some products detailed in this document may not be regulatory cleared, released or licensed for sale in all markets.

Description

DTX Studio Core is a software solution to manage and store patient media and image data of different types (2D X-ray, 3D X-ray, (CB)CT scans, photos, face scans) in a structured and centralized way to make captured data accessible anywhere in the dental clinic.

Cybersecurity

Protecting your practice against cybersecurity threats is a shared responsibility between us as the manufacturer and you as the health care provider. Nobel Biocare has taken precautions to ensure that the software is protected against such threats.

It is recommended that active and up-to-date antivirus and anti-malware software, together with a correctly configured firewall, are installed on the computer where DTX Studio Core is to be used. Failure to do so may lead to unauthorized access.

Make sure the office network is protected from unauthorized access and separated from the visitor network. Failure to do so may lead to unauthorized access.

To quickly recover from any unexpected system failure or malicious event that may cause data loss, it is advised to regularly back up the patient data.

It is recommended to always update DTX Studio Core to the latest available software version. Failure to do so may lead to unauthorized access.

For more technical details concerning back-ups, firewall and security settings during installation, please refer to the DTX Studio Core installation guide.

What to Do in Case of a Cybersecurity Event?

In the event of a potential system compromise by intrusion or malicious software, the user may note unfamiliar product behavior and/or performance impact. In this case the user is advised to contact customer support immediately

(www.dtxstudio.com/en-int/support).

Additional Information

A digital version of the DTX Studio Core Installation Guide is available as well. Please request it from your local customer support.

Good Practice Guidelines to a Secure Network

Install DTX Studio Core in a safe and secure local network. Measures to obtain a safe and secure network may include — but are not limited to — the following:

- Secure the server with a strong password.
- Secure the client computer(s) with a strong password.
- Make sure to install an active and configured local firewall.
- Install a reliable anti-virus solution on both the server and the client computers in order to timely detect and stop Trojans, phishing attacks, etc.
- Use a separate guest network to allow guest access.
- Use a (WiFi) password different from administrator passwords.

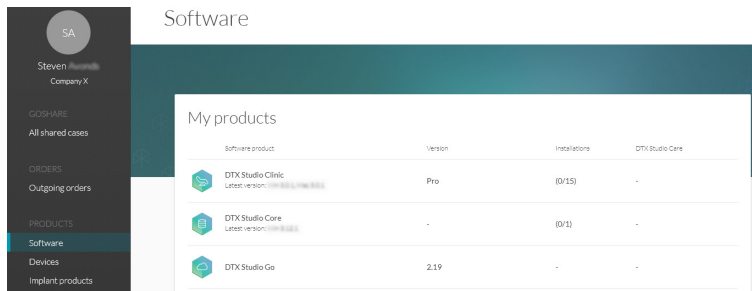
Installing DTX Studio™ Core

Log on to your computer with a user account that has administrator rights. We recommend that all other software on your computer is closed before DTX Studio Core is installed.

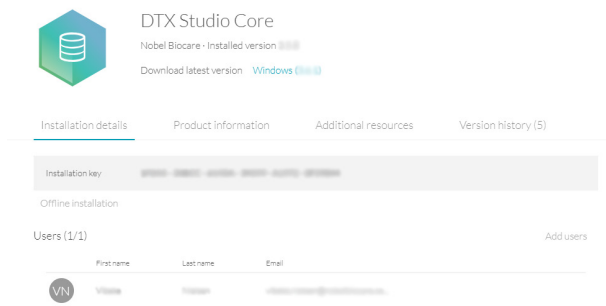
Make sure to check the “Good Practice Guidelines to a Secure Network” on page 5 to prepare your network.

Get the Installer and Installation Key

1. Go to go.dtxstudio.com and log in with the username and password that were sent to you.
2. On the **Software** tab, click DTX Studio Core.



3. On the DTX Studio Core page, copy the installation key.



4. Add users to the license, if needed:
 - To add an existing user to the license, click **Add users** on this page and select the user.
 - To add new users to DTX Studio Go, click **Users** in the sidebar and click **Add new user**.
5. Click **Windows**. The DTX Studio Core installer (.exe) file is automatically downloaded.

Install the Software

Note

Before performing an upgrade of DTX Studio Core, create a snapshot first. Refer to the DTX Studio Core IFU, Snapshots chapter. A snapshot will enable recovery in case of a failed upgrade installation.

Important

To upgrade DTX Studio Core 3.10 (or below) to a newer version while using continuous migration, you must skip DTX Studio Core version 3.11. Otherwise, all migration information will be lost. Do not skip version 3.13 though, as the last step of the 3.13 configuration wizard will run a tool to upgrade the old migration control center H2 database to the new migration control center PostgreSQL or Microsoft SQL database, and will save all migration information.


1. Double-click the installer executable.
2. If User Account Control is active, a message dialog appears asking you to allow this application to make changes to your computer. Click **Yes**.
3. If required applications are missing, a message appears asking you to install them. Click **Install**.
4. The InstallShield wizard will prepare the installation. A welcome message appears. Click **Next**.
5. The DTX Studio Core License Agreement is displayed. To accept the agreement, select **I accept the terms in the license agreement**, and click **Next**. To abort the installation, click **Cancel**. You can always go back a step in the installation wizard by clicking **Back**.
6. Click **Install**.
7. The installation might take several minutes. Once the installation is completed, click **Finish**.

Silent Installation

To install the software via command line:

1. Click the Windows® Start button.
2. Type `cmd`.
3. In the search results list, right-click **Command Prompt** or **CMD**.
4. Select **Run as administrator**.
5. If User Account Control is active, a message dialog appears asking you to allow this application to make changes to your computer. Click **Yes**.
6. At the command prompt, type `"executable_filename" /s /v"/qn"`.
7. Press Enter.

Configure the Software

1. After installation, the DTX Studio Core configuration wizard is opened, that allows you to configure DTX Studio Core. If silent installation was performed, open the configuration wizard by clicking the DTX Studio Core Configuration Wizard icon  on the desktop.
2. If User Account Control is active, a message dialog appears asking you to allow this application to make changes to your computer. Click **Yes**.
3. Select the **Language** you want to use. Click **Next**. You can always go back a step in the configuration wizard by clicking **Back**. To cancel the configuration, click **Exit**.

4. The DTX Studio Core License Agreement is displayed. To accept the agreement, select [I accept the terms in the license agreement](#). To get a copy of the agreement, click [Print](#). Click [Next](#).
5. Select the location where to store the DTX Studio Core data and click [Next](#).
 - The [Working folder](#)'s default location is C:/DTX Studio/core/data.
 - To change this location, click [Browse](#). Browse to the desired folder and click [OK](#).
6. Select which memory setup you want to use. Click [Next](#).

Note

The reduced setup cannot be used if DTX Studio Core will be configured to synchronize patient data with the Cloud.

7. Select which database you want to use. Click [Next](#).

Note

Selecting which database you want to use, is only available during the initial installation. More information on how to use an existing Microsoft SQL Server database can be found in "Microsoft® SQL for DTX Studio™ Core" on page 11.



Warning

Setting up DTX Studio Core with a Microsoft SQL server requires in-depth knowledge of MS SQL server.

8. Configure the database settings.
 - If you selected [DTX Studio Core database \(default\)](#) (a PostgreSQL database), adjust the [Database port](#) if necessary.
 - If you selected [Existing Microsoft SQL server database](#), enter the server name, the database port, and the username and password for the database.
9. Click [Next](#).
10. Adjust the https port numbers for accessing the different DTX Studio Core applications if necessary. Select [HTTP Communication](#) if you want to enable HTTP communication. Adjust the HTTP port numbers if necessary. Click [Next](#).
11. Select [Self-signed certificate \(default\)](#) or [Custom certificate](#). Click [Next](#).
12. If you chose [Self-signed certificate \(default\)](#), adjust the [Network hostname](#), if necessary. You will be able to download and install the root certificate later on, when DTX Studio Core has been installed (please refer to the 'Security' section of the IFU).

If you chose [Custom certificate](#), upload the [Private key](#) (.key) and [Public key](#) (.cer or .cert) to use your custom SSL certificate that was issued by a trusted certificate authority. Click [Next](#).
13. Select the integration features you want to enable for DTX Studio Core:
 - [DICOM communication](#): Enable communication with other DICOM nodes, such as PACS, in a DICOM communication network.
 - [Migration Control Center](#): Allow migrating patient information and data to your DTX Studio Core database.
 - [3Shape Dental System integration](#): Activate the 3Shape integrator to be able to get the scans made with your 3Shape intraoral scanners in DTX Studio Clinic.
 - [PMS communication](#): Allow PMS systems to exchange patient and image information directly with your DTX Studio Core.

- [CLINIVIEW/SCANORA](#): Allow CLINIVIEW or SCANORA to exchange patient and image information directly with your DTX Studio Core.
14. Click [Next](#).
 15. Continue with the integration configuration, if applicable.
 - If you selected [3Shape Dental Desktop integration](#) in step 13, provide the name of the [3Shape server](#) and the [Port](#) number to make a connection to the 3Shape Dental Desktop server. Click [Verify](#) to make sure DTX Studio Core is connected successfully to the 3Shape Dental Desktop server.
 - If you selected [PMS communication](#) in step 13, adjust the settings, if needed.
 16. Click [Next](#).
 17. Setting up the environment (DTX Studio Core, Core Manager and Migration Control Center) can take some minutes. When the installation is complete, click [Finish](#).
- Note**
- If you have several browsers installed on your computer, you will need to specify which browser you want to use to open DTX Studio Core. Select [Always use this app](#) to set the selected browser as the default browser to open DTX Studio Core. Click [OK](#).
18. DTX Studio Core is opened in the selected web browser.

Note

Depending on which integration features you selected in step 13, desktop icons are now available to start one of the following:

 - DTX Studio Core
 - Core Manager (if installed)
 - DTX Studio Core Configuration Wizard.
 19. Enter the license key and click [Activate Your License](#).
 20. Log in to DTX Studio Core using any of the users specified in DTX Studio Go.

Off-line License Activation

If the machine you are using has no active connection to the Internet, off-line license activation is possible.

Note

When DTX Studio Core is in off-line mode, you will not receive any automatic software updates.

1. On the activation page, click [Off-line activation of your license](#).
2. Click [Download](#) on the [Download registration file](#) card.
3. Save the generated registration file on e.g. a USB stick and take it to a machine connected to the Internet.
4. Access the DTX Studio Go customer portal.
5. Upload the file in DTX Studio Go.
6. An activation file is generated, which you can download and save to the USB stick and take it to the original machine.
7. Upload the activation file by dragging it and dropping it into the dedicated area. Alternatively, click [Choose file](#) and select the activation file.
8. The activation is completed.

9. You can now log in to DTX Studio Core using any of the users specified in DTX Studio Go.

Sleep Mode and Hibernation

Please make sure that the PC or server on which DTX Studio Core is installed, does not go into sleep mode or hibernation.

Disable Hibernation

1. Click the Windows® Start button.
2. Type `cmd`.
3. In the search results list, right-click [Command Prompt](#) or [CMD](#).
4. Select [Run as administrator](#).
5. If User Account Control is active, a message dialog appears asking you to allow this application to make changes to your computer. Click [Yes](#).
6. At the command prompt, type `powercfg.exe /hibernate off`.
7. Press Enter.

Disable Automatic Sleep

1. Go to the Windows Control Panel.
2. Click [Power options](#).
3. Click [Change plan settings](#) next to your current power plan.
4. In the [Put the computer to sleep](#) drop-down menu, select [Never](#).
5. Click [Save changes](#).

Microsoft® SQL for DTX Studio™ Core



Warnings

Setting up DTX Studio Core with a Microsoft SQL server requires in-depth knowledge of MS SQL server.

When using an already existing database, the DTX Studio Core feature to automatically take database backups is disabled. Creating the backups is the responsibility of the customer or database administrator.

Switching the database type for an existing DTX Studio Core installation is not supported.

DTX Studio Core needs a database connection to function. It can either use a PostgreSQL database, which is installed and managed by DTX Studio Core or it can be configured to connect to an existing database. In case of a setup with an existing database, the setup needs to be done as described below.

DTX Studio Core supports the following types of external databases:

- Microsoft SQL Server. Minimum supported version is 2017.
- Microsoft SQL Server Express. Minimum supported version is 2017.

During the installation of DTX Studio Core specific database connection details have to be provided. More information can be found starting on page 14.

To work with MS SQL Server Database, DTX Studio Core requires several databases:

- ditc database
- mcc database
- conf database
- DicomNode database

Information on how to set these up can be found on page 12.

Setting up the MS SQL Server Database

Install the SQL Server

1. Get the SQL server install file.
2. Run the setup application. The [SQL Server Installation Center](#) is shown.
3. In the side bar, click [Installation](#).
4. Click [New SQL Server stand-alone installation or add features to an existing installation](#).
5. Specify that you wish to install the database engine.
6. Click [Confirm](#).
7. MS SQL Server will be installed.

Install SQL Server Management Studio (SSMS)

1. In the SQL Server Installation Center click [Install SQL Server Management Tools](#).
2. Download and run the installer.
3. When the installation of SSMS is completed, restart your computer.

Enable TCP/IP

Notes

The server needs to be restarted to apply the changes.

Port settings can be changed on the IP addresses tab.

The firewall needs to be configured to allow incoming connections to the MSSQL database.

To connect to the database, DTX Studio Core uses TCP/IP connection with hostname and port. Consequently the Database server needs to be configured to accept these connections. This configuration can be done in the SQL Server Management Studio under the [Server network configuration](#) settings.

1. Open the SQL Server Management Studio.
2. In the left pane, click [SQL Server Network Configuration](#) and select [Protocols for MSSQLSERVER](#).
3. Double-click [TCP/IP](#).
4. Enable the TCP/IP protocol.

Create the ditc Login

1. Open SQL Server Management Studio (SSMS)

Important

To authenticate on the database, DTX Studio Core uses SQL server authentication. The server needs to be configured to allow this kind of authentication. In the [Object Explorer](#) in the left pane, right-click the name of your server. Go to [Properties](#) and select [Security](#). In the [Server authentication](#) section, select [SQL Server and Windows Authentication mode](#). Click [OK](#) to confirm.

2. In the [Object Explorer](#) in the left pane, click [Security](#). Right-click [Logins](#) and select [New Login](#).
3. The required value for the login username is 'ditc'.
4. For the password, select SQL Server Authentication and fill out the password.

Test whether ditc connection is possible by using the connect icon in the [Object Explorer](#).

Create the ditc Database

1. In the [Object Explorer](#) in SQL Server Management Studio, right-click [Databases](#) and select [New Database](#). Enter 'ditc' as database name.
2. Select the SQL_Latin1_General_CP1_CS_AS collation.
3. Right-click [Users](#), select [New User](#), find the 'ditc' user and click [OK](#).
4. Open the 'ditc' user properties, go to [Membership](#) and check the [db_owner](#) role.

The following settings differ from the default ones and need to be adjusted to use the ditc database with DTX Studio Core:

Setting	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Allow Snapshot Isolation	True
Is Read Committed Snapshot On	True

Create the mcc Database

1. In the [Object Explorer](#) in SQL Server Management Studio, right-click [Databases](#) and select [New Database](#). Enter 'mcc' as database name.
2. Right-click [Users](#), select [New User](#), find the 'ditc' user and click [OK](#).
3. Open the 'ditc' user properties, go to [Membership](#) and check the [db_owner](#) role.
4. Right-click [mcc](#) and select [Options](#).
5. Put [Allow Snapshot Isolation](#) and [Is Read Committed Snapshot On](#) on [True](#).

Note

If an error is thrown, make sure the file path is correct (may differ depending on the used MSSQL version) and that the MSSQL user has read/write rights on the specified folder (especially when the location used differs from the default location).

When deleting an existing mcc database, make sure to check the [Close existing connections](#) checkbox to avoid SSMS hanging or throwing errors.

The following settings differ from the default ones and need to be adjusted to use the mcc database with DTX Studio Core:

Setting	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Allow Snapshot Isolation	True
Is Read Committed Snapshot On	True

Create the conf Database

1. In the [Object Explorer](#) in SQL Server Management Studio, right-click [Databases](#) and select [New Database](#). Enter 'conf' as database name.
2. Select the SQL_Latin1_General_CP1_CS_AS collation.
3. Right-click [Users](#), select [New User](#), find the 'ditc' user and click [OK](#).
4. Open the 'ditc' user properties, go to [Membership](#) and check the [db_owner](#) role.

The following settings differ from the default ones and need to be adjusted to use the conf database with DTX Studio Core:

Setting	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Transaction isolation level	True
Is Read Committed Snapshot On	True

Create the DicomNode Database

1. In the **Object Explorer** in SQL Server Management Studio, right-click **Databases** and select **New Database**. Enter 'DicomNode' as database name.
2. Right-click **Users**, select **New User**, find the 'ditc' user and click **OK**.
3. Open the 'ditc' user properties, go to **Membership** and check the **db_owner** role.

The following settings differ from the default ones and need to be adjusted to use the DicomNode database with DTX Studio Core:

Setting	Value
Collation	SQL_Latin1_General_CP1_CI_AS
Allow Snapshot Isolation	True
Is Read Committed Snapshot On	True

User Permissions

Proper user permissions need to be selected. The 'ditc' user needs the following roles on the ditc, conf, mcc and DicomNode databases:

- db_datareader
- db_datawriter
- db_ddladmin (This role is required to execute the database migrations).

The 'ditc' user needs the following permission explicitly granted:

- View any definition

Database Connection Details

During the installation of DTX Studio Core the following details of the database connection have to be provided.

- Hostname
- Port number
- Username (this is fixed to 'ditc')
- Password

Test the DTX Studio™ Core Connection with MSSQL Server Database

1. To make sure DTX Studio Core is configured to run with the MS SQL Server Database, run Setup Public SQL Server in IntelliJ.
2. Start CoreRestBootApplication in IntelliJ. If connection is successful, SQL statements will be logged and you should be able to access the DTX Studio Core activation page.

Firewall Settings

DTX Studio Core needs to connect to various servers in order to function. It can either use a direct connection or it can be configured to use a proxy. In case of a direct connection, the firewall should allow the connection to the specified servers. In case of a proxy setup, proxy settings should be set correctly on the client PC, as described below.

DTX Studio Core generates its own firewall rules. However, these are only valid for the Windows® firewall. If the user is using another firewall, it might be necessary to open the ports described below.

Server and Port Configuration

DTX Studio™ Go Server

Following table describes the URLs used by DTX Studio Core. The corresponding IP addresses of these URLs can be found by DNS lookup. For example, on Windows this can be done by opening a command prompt and using the nslookup command. For example “nslookup nobellicense.nobelbiocare.com”.

Protocol	URL	Description
https	nobellicense.nobelbiocare.com	URL used to contact the DTX Studio Go license server.
https	nobelstats.nobelbiocare.com	URL used to send anonymous statistical information to DTX Studio Go.

Ports for Client Applications

The DTX Studio Core web application uses a dynamic port during installation and configuration, allowing you to configure the other ports in the configuration wizard.

Following table describes the applications calling DTX Studio Core and which port numbers DTX Studio Core uses to listen to them.

Note

This table lists the default ports. The actual ports used can be found and configured in the configuration wizard or in the properties files of DTX Studio Core.

When upgrading from a previous installation of DTX Studio Core, the port numbers will remain the same as in the previous installation.

HTTP ports are disabled by default, but can be enabled through the DTX Studio Core configuration wizard. It is, however, recommended to use the HTTPS port instead.

Application	Application Description	Port Description	Port
DTX Studio Clinic	DTX Studio Clinic is a software application for dental/medical practitioners used to analyze 2D and 3D imaging data, in a timely fashion, for the treatment of dental, craniomaxillofacial and related conditions.	Default HTTPS port to call the DTX Studio Core API from the frontend applications.	26850
		Default HTTP port to call the DTX Studio Core API from the frontend applications.	26851
Migration Control Center (MCC)	Migration Control Center is the web application to manage migrations of an existing database to the DTX Studio Core database.	Default HTTPS port to host the MCC application.	26852
		Default HTTP port to host the MCC application.	26853
Core Manager	Core Manager is the DTX Studio Core web application to configure more advanced configurations options, especially relevant when using DTX Studio Core in combination with DEXIS™, VixWin® or CLINIVIEW™.	Default HTTPS port to call the API used by the Core Manager application.	26862
		Default HTTP port to call to API used by the Core Manager application.	26863
DICOM node	DICOM node enables DICOM communication with Picture Archiving and Communication System (PACS) or a Modality Worklist (MWL) server.	Default HTTPS port to call the API used by the DICOM node.	26856
		Default HTTP port to call the API used by the DICOM node.	26857

Note

Migration Service, the service which performs the actual migrations, configured in MCC, uses the following ports:

Port Description	Port
Default HTTPS port to call the Migration Service API, used by the MCC application.	9002
Default HTTP port to call the Migration Service API, used by the MCC application.	9000

Proxy Settings

DTX Studio Core uses OS proxy settings to determine whether to directly communicate with servers or by using a proxy server.

On Windows different proxy settings are available:

- **User proxy settings.** These settings are available via “Proxy settings” of the System settings. Those proxy settings are typically used by simple desktop applications or by browsers. They are specified per user, not available for services, and DTX Studio Core does not use those settings.
- **WinHTTP proxy settings.** Those settings are used by services, like Windows Updates service. DTX Studio Core uses WinHTTP proxy settings to communicate with all the servers.

WinHTTP proxy settings are usually set via command prompt. Examples:

- ‘`netsh winhttp show proxy`’ is a command to show the current WinHTTP proxy settings
- ‘`netsh winhttp set proxy "<proxy>:<port>" bypass-list="<local-net>"`’ is a command to use the <proxy> proxy server at the <port> port and to avoid using a proxy when working with URLs/IP addresses of the <local-net> net.
- ‘`netsh winhttp reset proxy`’ is a command to reset proxy settings, and to use direct connection.

Important

Connection from the DTX Studio client applications to DTX Studio Core also uses proxy settings. If the proxy server is located outside of the local network, it will not be able to forward any requests back to the local network. Hence, it is necessary to specify a bypass-list for the local network, as in the example below.

Examples

Windows with Local Proxy Server

This is an example of configuring Windows to use a proxy server located in the same local network as DTX Studio Core, with the proxy server available at the 10.0.1.100:8080 address.

Start command line as administrator. Execute following command:

```
netsh winhttp set proxy proxy-server="10.0.1.100:8080"
```

Windows with an External Proxy Server

This is an example of configuring Windows to use a proxy server `sampleproxy.com:8080` located outside of the local network and with the local network using IP addresses in the 10.*.*.* range.

Start command line as administrator. Execute the following command:

```
netsh winhttp set proxy proxy-server="sampleproxy.com:8080" bypass-list="10.*.*.*"
```

Migration Control Center (MCC)

MCC is an optional service that allows you to migrate databases. It can be installed when installing DTX Studio Core.

Migrate an Old Database to a New DTX Studio™ Core Database.

Important

Please ensure there is sufficient free disk space on the target server before starting migration.

It is recommended to create a backup of the DTX Studio Core database by clicking [Backup](#) and [Take snapshot now](#) before starting the migration.

The following databases are currently supported:

- CLINIVIEW 10 or higher
- Dexis 9.1.0 or higher
- Dexis 10.0.3 or higher
- VixWin Platinum 3.3 or higher
- VixWin Pro 1.5.f or higher
- DIGORA for Windows 2.5 R1 or higher
- SCANORA 5 or higher

The following data cannot be migrated into a DTX Studio Core database:

- Volumetric Tomography (VT) images.
- Annotations, logos, audio fragments and videos.
- User accounts created in the old software. New user accounts will need to be created in Core Manager for each user.

Initiate Migration

The steps below describe accessing the MCC (Migration Control Center) from the DTX Studio Core interface.

1. Log in to DTX Studio Core.
2. In the sidebar, click [Advanced settings](#).
3. Click [Migration Control Center](#).
4. The MCC will start searching DTX Studio Core databases and importable databases. If no database is found, click [Add manually](#), enter the database's URL and click [Add](#).
5. On the left [Source database](#) card, click the [Source](#) database field and select the old database to be imported, e.g. `http(s)://<hostname or IP address>:9002`.

Note

If more than one source database is found, select the source you want to migrate.

6. On the right [Destination database](#) card, enter the user credentials for the DTX Studio Core database.
7. Click [Continue](#).

8. In the **Migrate patient data** group, schedule the migration by specifying the preferred days and hours.
 - The migration of media files and patient data can take up to 100% of the CPU usage of your device. Please make sure to schedule the migration during non-working hours.
 - By default, all patient data (2D/3D X-rays, (CB)CT scans, photos, ...) acquired less than 18 months before the migration is included. Click the drop-down menu in the **Only for patients with patient data** field and select another range, if needed.

Important for CLINIVIEW 11 users

If migrated data will be used with CLINIVIEW 11, change the selection to **All**. If migrated data will be used with DTX Studio Clinic, you may select any of the available options. If another selection than **All** was used during migration to CLINIVIEW 11 and desired older images are missing in the software (**Loading image** is displayed in the image browser for missing images), you can change the selection to **All** to migrate the missing images during the next scheduled migration.

- After starting the migration, manually imported media data into the legacy system will not be migrated to DTX Studio. Therefore, if you need to add patient media data manually, always make sure to import it into DTX Studio, not into the legacy system.

9. Optional settings are available:

- The **Synchronize patients** option is applicable for CLINIVIEW 10, Dexis 9, Dexis 10, DfW and VixWin. When enabled, new patients and updated existing patients will be migrated automatically outside of the migration schedule every five minutes. As a result, patients appear faster in DTX Studio Clinic.

Note

During scheduled migration hours the **Synchronize patients** functionality is not active.

- Enable **Also include patient data** to synchronize the patient data as well.

Note

This configuration can cause heavy load on the legacy system and on DTX Studio Core.

10. Click **OK**.
11. Click **Refresh** to view the migration process.

Tip

It is also possible to select **DTX Studio settings > Core > Refresh patient list** to see new data quicker.

Start Migration in Core Manager (For CLINIVIEW™ 11 Users)

1. Launch **DTX Studio Core Manager** using the desktop icon.
2. Log in to **DTX Studio Core Manager** with an administrator user account.
3. Select **Configuration**.
4. Select the **Migration** tab. The **Migration Control Center** will open.

Start a New Migration

Sequential migrations allow you to stop a current migration and start a new one. You cannot start a migration that was already run. Therefore, when migrating multiple databases, make sure you migrate the database with continuous migration as the last.


1. Click **☰** at the top right and select [Start new migration](#).
2. Click [Start new migration](#) to confirm you want to discontinue the current migration.
3. This brings you back to the log-in window. To view the history of previous database migrations, click [Show database migration history](#). Click [Add manually](#) to select another database. Enter the legacy database URL and click [Add](#).
4. On the right [Destination database](#) card, enter the user credentials for the DTX Studio Core database.
5. Click [Continue](#).

Follow Up on the Migration Process

Once the migration process is initiated, the overview page offers an overview of the migration status. Regularly refresh the page to get the current migration status.

1. In the DTX Studio Core web interface sidebar, click [Advanced settings](#).
2. Click [Migration Control Center](#).
3. Enter the username and password.
4. Click [Login](#).
 - Click [Pause migration](#) or [Resume](#) to halt or resume the migration process.
 - To reconfigure the migration schedule, click **☰** at the top right and select [Adjust schedule](#).
 - To view the database migration history, select [Previous Database Migrations](#).
 - To log out, click **☰** at the top right and select [Logout](#).

The following tabs are available:

Migration details	Displays the migration process and statistics on how many patients and media have been migrated.
General alerts	Displays all general alerts involving databases and DTX Studio Core. To re-initiate a certain activity, hover over its entry and click Retry at the right.
Source conflicts	Displays all potential conflicts in the source database.
Migration issues	Displays all migration-related issues. To re-initiate the migration of a certain patient, hover over its entry and click Retry at the right. Use the top-right search field  to filter specific patient names and PMS IDs.

Patient Record Conflicts

If the old database contains duplicate patient record information (same PMS ID, different PMS ID but the same name, gender, date of birth, etc.). Conflicting patient records will not be migrated until the conflict is solved.

- Patient records without media are not migrated.
- Conflicting patient records are automatically merged if the PMS ID and all the patient metadata have the same values.

Solve Patient Record Conflicts

1. On the MCC overview page, click the [Source conflicts](#) tab.
2. Click [Resolve conflict](#) to expand a conflict group, showing its duplicate patient records. Alternatively, click [➤](#).
 - The patient record in bold is the master patient record. This is the patient record containing the most recently acquired media.
 - To merge all shown patient record information of the old database in one patient record in DTX Studio Core, click [Migrate as 1 patient](#).
 - To migrate the conflicting old patient records individually to DTX Studio Core, click [Migrate as # individual patients](#).
 - To migrate all conflicting patient records individually, click [⋮](#) and select [Migrate all patients individually](#).
 - When migrating duplicate patient records as individual patient records, only the master patient record in the conflict group keeps the PMS ID. For the other patient records, the PMS ID is cleared. The value is stored in the metadata as “Original PMS ID”. In the PMS, these other patient records cannot be opened directly in DTX Studio Clinic.

Solve Migration Issues

1. Check whether there are any issues by clicking the [Migration issues](#) tab on the [MCC overview](#) page.
2. If there are issues, click [Retry](#).

Technical Support

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

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

For North America:

- www.dtxstudio.com/en-us/support
- Phone number: 1-888-88-DEXIS
- <https://dexis.com/en-us/contact-us>



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