

DTX Studio[™] Clinic Version 4.3

Release Notes

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Version 4.3

This software version aims to address the needs of dentists wanting to create prosthetically-driven treatment plans and create surgical templates chairside – for local production on their 3D printer or by their partnering lab. It also offers the feature set for partially edentulous cases.

Notes

All fixes and improvements are incremental to DTX Studio Clinic 3.4.

This version will be available to all customers in launched countries and to all Envista internal accounts.

Compatibility

DTX Studio Clinic 4.3 needs DTX Studio Core 4.0.4 or above (DTX Studio Clinic 4.3.12 will not connect with older DTX Studio Core versions).

From DTX Studio Clinic 4.3, a CLINIVIEW side-by-side setup is no longer supported. CLINIVIEW users should use DTX Studio Core 3.15 or lower in a side-by-side setup with DTX Studio Clinic 3.4 or lower.

DEXIS™ IS ScanFlow 1.0.8 or higher is required if used for capturing with DEXIS IS intraoral scanners, installed in Integration mode.

For further details about compatibility, please refer to the latest computer guidelines and compatibility of DTX Studio ecosystem components on <u>go.dtxstudio.com</u> under <u>Additional resources</u> or on <u>tech.dexis.com</u>.

DTX Studio database Migration v.3.13 and Plugins rev. 8 are required to perform migrations or update sideby-side migration setups.

Note

Integration of DTX Studio Clinic with InVivo requires InVivo 6.0.5 or higher. Lower versions of InVivo may cause an additional undesired dialogue when a CBCT case is exported to InVivo, where the user is prompted to select the correct case. This issue is not present in InVivo 6.0.5 or higher.

New Features

Surgical Templates

A workflow to create - in just a few clicks - a chairside designed surgical template for local production is now available. A wizard allows the user to set the template range and the preferred template sleeve for each planned implant.

Pilot sleeves, fully guided sleeves and anchor pins are supported¹.

Following additional options can be set:

- Implant orientation notch for optimal prosthetic orientation
- Option for template height, material thickness, punch size
- Option to add inspection windows
- Option to add custom labels (up to 8 characters)

¹ Currently supported sleeves for surgical templates are:

Nobel Biocare - pilot drill sleeves, fully guided sleeves and anchor pin sleeves
 (Nobel Biocare Pilot Sleeves 1.5 and 2.0mm can be planned for any third-party implant brand)

⁻ Alpha Bio Tec sleeves – fully guided + anchor pin sleeves

⁻ Implant Direct – fully guided, pilot, anchor pin sleeves

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When the wizard is finished, the surgical template preview is added to the 3D scene and planned implants and anchor pins are automatically locked. Afterwards, a high-resolution surgical template can also be calculated directly in DTX Studio Clinic and exported for production (e.g. chairside 3D printing or sending it to the lab for production).

Each designed surgical template is stored together with a surgical instructions report and an assembly instructions report in the patient record, available at all workstations in the network.

The surgical template can be printed on a 3D printer (recommended 100 microns print or 50 microns) and assembled by clinical staff or sent to the lab for manufacturing.

Surgical Template Order

Before generating the final high-resolution surgical template in DTX Studio Clinic, the system checks in the background if customers have a valid subscription and the customer is informed about the item price. A new order is created in DTX Studio Go when the customer proceeds. In specific software configurations, the price and ordering step can be skipped. Monthly invoicing is based on the generated templates.

Users can now regenerate an additional virtual surgical template with different production settings, such as a modified offset. This will be free of charge.

Implant Planning

Abutments² can now be added allowing for prosthetically-driven crown-down implant planning. Planned abutments and their linked screw channel, are visualized in all 2D and 3D scenes. When changing the implant length or diameter, the software now tries to keep other parameters fixed.

Note

Currently supported abutments are:

- Engaging and non-engaging abutments for all treatment phases: healing, temporary and final.
- Abutment rotation support (free angle for non-engaging, or in angle steps for engaging abutments).
- Abutment angulation support (for individualized abutments with Angulated Screw Channel) incl. screw channel axis visualization.

Users can also more easily indicate the position of anchor pins on the OPG/PAN view.

The surgical instruction report was significantly extended, offering a clear overview of the full implant plan and generated surgical template (if available). The report is automatically created whenever a high-resolution template is generated.

Virtual Tooth Extraction

DTX Studio Clinic allows virtual extraction of teeth from the IO scan to create surgical templates for immediate extraction and implant placement, powered by embedded MagicAssist Al.

The altered scan is saved as a separate one and can be used for treatment planning or exported/shared as STL or PLY file. Virtual tooth extraction aims to extract a single tooth or set of teeth where at least 3 teeth must remain in the jaw.

Diagnostics

The intraoral X-ray crisp filter was improved (ClearVu 3.0). The new filter has enhanced performance in image regions with high intensity values (fillings, enamel, ...).

² Currently supported abutments are Nobel Biocare only, other brands are on the prioritized roadmap for library integrations.

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Installation Workflow

Thanks to a set of modifications, the installation and configuration process is currently running more smoothly:

- Software updates and shared settings files can now be uploaded to DTX Studio Core.
 When a DTX Studio Clinic client connects to DTX Studio Core, software updates are automatically downloaded and a notification is shown at the next startup. Similarly, shared settings files are downloaded and automatically applied in the background.
- Better guidance is provided on how to safely connect to DTX Studio Core and how the DTX Studio Core security certificate can be downloaded.
- A new user action was implemented to easily collect all relevant DTX Studio Clinic log files with a single click.

New DTX Studio Core Connection Flow

The connection framework has been revamped and enhanced. Setting up a connection between DTX Studio Clinic and DTX Studio Core no longer requires a password. Connections from DTX Studio Clinic clients to DTX Studio Core can now be managed (accepted or revoked) centrally in DTX Studio Core.

New ICE Filter

A new 3D CBCT image filter, Implant Contrast Enhancement (ICE), has been added. This filter is exclusively available for 3D CBCT scans acquired with a DEXIS OP 3D device. Default values can be preconfigured.

Load Demo Patients

Two demo patient cases are now installed with DTX Studio Clinic. An action within the software allows loading these demo cases to facilitate onboarding, sales, or training events. Depending on the selected case, 2D FMX data or more complete 3D data will be available.

New Quick GoShare Action

A new feature was added, allowing the creation of shortcuts for quick data sharing to frequently used DTX Studio Go connections. For each connection it is possible to configure whether the DTX Studio Go website should be opened after data upload or not.

Set up PMS Connection

The workflow for setting up and configuring a linked PMS system in DTX Studio Clinic has been improved. A small wizard guides users through the configuration process, and the set-up connection can be quickly tested during configuration.

Area Measurement

By clicking 3 or more points on a 2D image or 3D reslice, segments of a polygon are created. After closing the shape, the enclosed area is measured.

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Bookmark an intraoral template

It is now possible to bookmark favorite, commonly-used intraoral templates (layouts) for efficient switching between these templates.

Minor Feature Enhancements

Al Improvements

- The automated initialization of CBCT scan by MagicAssist™ Al is now supported also for smaller FOVs.
- The AI Focus Area Detection engine has been improved to reduce false positive detected areas.
- Users can now configure whether certain focus area types should be hidden by default.
- The automatic AI orientation detection for clinical pictures was improved significantly.
- When users want to crop a clinical picture, a default smart crop box that centers around the patient's face is generated.

UX Improvements

- The visibility tab in the smart panel now shows all scene objects (annotations, implants, findings, ...)
 grouped per type to make it easier to toggle the visibility. Groups can be easily expanded or collapsed.
- Users can now search patient records in DTX Studio Home by PMS ID.
- Bookmarks can now be created in a single click and are directly accessible in the Findings section of the Smart Panel.
- The screenshot action is made available in the upper ribbon, allowing immediate access to this action at any time.
- Bone threshold can now be adjusted with sliders.
- The IO X-ray crisp filter was improved. 2D X-Ray visualization is enhanced by reducing 'halo' artifacts on high-contrast (metal, fillings, enamel, ...) objects thanks to the new ClearVu 3.0 filter.

Generated cephs (3D cephs)

- Generated cephs (or 3D Cephs) now have their own image settings (separate from ceph images).
- Added new 3D ceph mode switch to toggle on/off 'Enhance bony structures' (by default on).
 Switching this off provides the generated ceph as it was pre-DTX Studio Clinic 3.4.
- Optimized the generated ceph (with 'Enhance bony structures' on).

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Other

- Patient records with unsynced data are now shown at the top of the patient list.
- The visualization of patient records with a sync conflict is updated.
- A recovery solution is in place in case the connection with DTX Studio Core is lost while capturing with USB devices.
- The acquisition date and time is shown in the local time frame of the original acquisition PC.
- 'Natural head position' (if available) is now the default patient orientation for the 3D viewer.
- The option to keep up to only 5 patient records stored locally is added.
 Select it on the Storage tab of the DTX Studio settings.
- Updated silent installation flow in line with the new DTX Studio Core authentication workflow.
- Added functionality to automatically download and install implant libraries from DTX Studio Core.
- Added a new UI notification in the application menu to indicate when a new software version is available or when maintenance subscription is expired.
- Updated user-interface of the PMS integration settings panel (improved layout, instructions).
- Starting Dexis IS ScanFlow from DTX Studio Clinic no longer requires the PMS integration to be enabled.
- The DIN 2020 DICOM compliance setting is no longer enabled by default.
- The auto-save setting is now by default switched on.
- Screenshots are no longer linked to implants.
- Updated modality sorter to include the rotation of clinical pictures.
- Added functionality to load a custom template from the export report dialog.

Most Important Bug Fixes

DTX Studio Home module

- Fixed issue where patient name was visible in DTX Studio log files.
- Fixed issue where a 3Shape IOS scan was incorrectly oriented when exporting from DTX Studio Clinic to DTX Studio Lab.
- Fixed issue where right-click on DTX Studio tray icon did not open tray context menu.
- Fixed issue where drag-and-drop of a folder containing sub folders showed an invalid DICOM error dialog.
- Fixed issue where a crash could occur when changing modality after doing it on another PC first.
- Fixed issue where drag-and-drop in FMX template flow was not working.
- Fixed issue where 'Patient Orientation' DICOM tag was not filled in for (generated) OPG and CEPH.
- Fixed issue where DTX Studio Clinic would hang when closed down shortly after startup.
- Fixed issue where no notification message was shown in tray when upload is paused due to a lost Internet connection.

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- Fixed issue where data export would fail after DTX Studio Core reconnected (specific scenario).
- Fixed issue where a non-local patient record with clinical pictures were not downscaled according to the performance setting.
- Fixed issue where tooth center was not detected on IO Scan (specific case).
- Fixed issue where (CB)CT dataset of size 1024x1024x1024 (or larger) could not be loaded.
- Fixed issue in watch folder where DICOM file set with too large slice thickness or slice increment was marked as invalid.
- Fixed issue where low quality DICOM files could be added via drag-and-drop without a warning.
- Fixed issue where study date and acquisition date were not the same.
- Fixed consistency of the time indication throughout the application.
- Fixed issue where the patient record could not be opened when it failed to upload to DTX Studio Go.
- Fixed issue where there was an invalid 'pixel spacing' tag exported when value was missing.
- Fixed issue where 'Ignore practice number' becomes unchecked in the PMS integration settings.
- Fixed issue where .mod file cannot be imported into the patient record as media attachment.
- Fixed issue where a captured image cannot be saved when acquired while a DEXIS IS scan session is open.
- Fixed issue where the Edit/Resume actions are not available in ScanFlow when using VDDS PMS with a different practice PMS ID.
- Fixed issue where Quick launch of DTX Studio Implant was not working for a specific patient name with strange characters.
- Fixed issue where a file exported to X-Guide™ contains small rounding errors in transformation matrix.
- Fixed issue where a registration call for local USB device was executed twice.
- Fixed issue where the dates in stats files created on Thai(?) PCs are not readable for processing.
- Fixed issue where the behavior of Patient PMS ID creation with DTX Studio Clinic was confusing.
- Fixed issue where ArchType is sent with translated values for GoShare and Partner cases.
- Fixed issue where DTX Studio sends updates to local devices to DTX Studio Core twice.
- Fixed issue where the reset patient record action is not logged to the Stats.

DTX Studio Clinic Module

- Fixed issue where crash would occur when adding or removing viewers from a layout in a specific scenario.
- Fixed issue where brightness/contrast of CBCT imported through OPP is not as expected.
- Fixed issue where the DTX Studio Clinic module would crash after changing tooth number of a finding.
- Fixed issue where slices were skipped when scrolling in parallel or horizontal viewer.
- Fixed issue where "Last Modified" date of diagnose would not update when creating a new diagnose and saving it.

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- Fixed issue where unmatched focus areas showed up when dragging an image, processed with MagicAssist™, to the opposing tile and then undoing the action.
- Fixed issue where images captured on the day that the diagnosis was created, were not automatically added to respective diagnosis.
- Fixed issue where 'Operator information' was missing in acquired image details (with OP 3D LX).
- Fixed issue where orientation of bitewing IOR for specific legacy template was not as expected.
- Fixed issue where the patient model was not centered in viewer after switching between workspace and implant plans.
- Fixed issue where the menu did not open when clicking the ellipsis icon on a non-active implant plan item.
- Fixed issue where multiple calibration or distance measurements did not get incremental names (for 2D media).
- Fixed issue where application would assign tooth numbers with too low confidence.
- Fixed issue where a crash occurred when opening a patient record with single-frame DICOM file (Specific dataset).
- Fixed issue where a clinical picture would flip when DTX Studio Clinic module is reopened.
- Fixed issue where a large associated teeth list in Image details would be shown for OPG/PAN image.
- Fixed issue where the latest added screenshot was not marked as selected in specific scenario.
- Fixed issue where reassigned 3D X-ray data was not visible in patient module.
- Fixed issue where the looking glass in spotlight mode showed a black box when hovering over data.
- Fixed issue where in the airway indication a wrong image label is shown for upper point.
- Fixed issue where the 3D Panoramic default slice thickness was unexpected on single slice in a specific scenario.
- Fixed issue where wrong level/window was used for 8-bit images using "auto L/W" button.
- Fixed issue where the pregnancy of a patient was not stored in the direct scan request when capturing with Core device in DTX Studio Clinic.
- Fixed issue where migrated 2D images with an empty scanned region are not available in the workspace.

Capture Module

- Fixed issue where captured clinical pictures (using TWAIN) did not apply resolution performance settings.
- Fixed issue where 3D DICOM file did not get imported via the watch folder.

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Treatment

- Fixed issue where, when exporting to X-Guide, the aligned reference jaw scan was not available when the other jaw scan was not aligned.
- Fixed issue where the angulation of virtual teeth would be shown at a wrong position after the rotation point is adjusted.
- Fixed issue where switching to a non-locked implant plan took some time.
- Fixed issue where Snapped-to-implant reslices would no longer be available after switching to a final implant plan and back.
- Fixed issue where Virtual Teeth Setup in DTX Studio Clinic would hang with incorrect input (rare scenario).
- Fixed issue where snapped-to-implant reslice viewers were not empty when adding a new implant plan.
- Full Nobel Biocare implant library is now included in the installer.

PMS and Third-party Integration

- Fixed issue where images were not correctly returned via VDDS when patient record had attachments.
- Fixed issue where via DTX Studio Go Sync a duplicated patient record was created when the search for a patient record by PMS ID call fails.
- Fixed issue where clinical pictures imported through PMS were not downscaled according to the performance setting.
- Fixed issue where OPP XML invalid data paths should be ignored.
- Fixed issue where OPP Web API did not return tooth numbers assigned afterwards.
- Fixed issue where TWAINDSM.dll's were not correctly signed in our installer (TWAIN dsm).

DTX Studio Core Integration

- Fixed issue where background sync after reconnecting with DTX Studio Core was started while the DTX Studio Clinic module was open for that patient record.
- Fixed issue where patient record was not fully synced with media files after being partially synced.
- Fixed issue where sync of DICOM file failed when specific DICOM tag has very long value.

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Previous Releases

Version 3.4

Notes

All fixes and improvements are incremental to DTX Studio Clinic 3.3.7.

This version will be available to all customers in launched countries and to all Envista internal accounts.

Compatibility

DTX Studio Clinic 3.4.12 will not connect to DTX Studio Core versions lower than 3.13.22.

DTX Studio Core 3.13.22 or higher is required when updating to DTX Studio Clinic 3.4.12.

CLINIVIEW™ 11.10 or higher is supported for side-by-side setups with DTX Studio Clinic 3.4.12.

DEXIS™ IS ScanFlow 1.0.8 or higher is required if used for capturing with DEXIS IS intraoral scanners, installed in Integration mode.

For further details about compatibility, please refer to the latest computer guidelines and compatibility of DTX Studio ecosystem components on go.dtxstudio.com under Additional resources or on tech.dexis.com.

DTX Studio database Migration v.3.13 and Plugins rev. 8 are required to perform migrations or update sideby-side migration setups.

Note

Integration of DTX Studio Clinic with InVivo requires InVivo 6.0.5 or higher. Lower versions of InVivo may cause an additional undesired dialogue when a CBCT case is exported to InVivo, where the user is prompted to select the correct case. This issue is not present in InVivo 6.0.5 or higher.

New Features

Touchscreen Support of Home Module

DTX Studio Clinic supports touchscreens in the DTX Studio Home module¹. Suitable for DEXIS IS Voyager All-in-one touchscreen setups and setups requiring higher hygienic standards. This includes virtual keyboard support.

Enhanced Photo Management - Crop & Straighten

To correctly visualize clinical photographs, it is now possible to crop and straighten images. Selected 2D images are exported with crop region and straighten angle applied if the export mode is set to filtered. Crop region and straighten angle are applied to the thumbnails in case of clinical pictures. The crop and straightened angle is applied when exporting as a clinical picture to a PMS or DTX Studio Implant. Modifications are reversible as the original image is always stored.

Watch Folder for Attachments

Next to 2D and 3D images, the watch folder can now be configured for any other type of file (audio, video, documents, etc.).

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Extended Scan Requests and QuickPrescribe

A user can now create a scan request for clinical pictures, third-party devices or attachments (using watch folder).

Copy and Paste to/from Clipboard

It is now possible to copy the image inside the active viewer to the OS clipboard and import (via paste) an image from the clipboard.

Auto-save

A new auto-save setting is added that saves the diagnosis upon closing the application or when switching to another diagnosis.

Minor Feature Enhancements

General Enhancements

- A new auto-save setting that saves the diagnosis when closing the DTX Studio Clinic module or when switching to another diagnosis.
- When hovering over specific actions, a short, animated tooltip will appear.
- Copy/paste: It is now possible to copy the image inside the active viewer to the OS clipboard and import (via paste) an image from the OS clipboard.
- Allowing export of images when a patient record is open on another workstation.
- A clearer message is now shown when a patient record created in a newer version is imported.
- Exporting of patient data is now possible even if the patient record is locked by another workstation.
- Admin mode warning when launching applications via Quick Launch.
- US-specific default settings short/long date format, time format, universal tooth numbering, Intraoral X-ray crisp value 54%, language set to 'US English'.
- Support of QuickLaunch to VistaDent cephalometric software.
- Added the capability to also add watch folder devices through the shared settings file.

Extended Drag-and-Drop Import

- Support for drag-and-drop import of 2D images into the Clinic Module.
- Support for drag-and-drop import of 3D DICOM images into the Home module.

Diagnostic and Workflow Enhancements

- Enhanced calculated cephalogram: Reworked how a cephalometric image is generated from a CBCT dataset. Additionally, a ruler has been added when exporting the image.
- Perpendicular and parallel reslices can now be rotated individually in the Implant workspace as well.

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- Endo and Tooth workspaces are now always visible when a 3D dataset is available, even for volumes which were not auto-setup by Al MagicAssist.
- Patient orientation for a 3D patient record can be set to original (Scanned position, next to Dental head and Natural head position).
- A new action was added to perform Focus Area detection on template level.
- Updated labels and re-ordered actions to Show Bookmark and Update Bookmark in the three dot menu of a created finding.
- Optimized automatic nerve segmentation.
- The default image selection for 2D images when opening a patient is now set to 50.

Capturing

- Added Intraoral camera images support to the watch folder.
- The QuickPrescribe tab is selected by default if QuickPrescribes are available.
- Added an extra image retrieval option to support TWAIN capturing for ScanX Swift devices.
- Added out-of-the box support for DEXIS IS ScanFlow 1.0.10

Image Quality Enhancements

- 3D volume rendering visualizations have been optimized for DEXIS OP 3D LX.

Most Important Bug Fixes

DTX Studio Home Module

- Fixed issue where a failed sync would lead to no longer being able to open a patient record in a specific scenario.
- Fixed issue where certain dialogs could be resized on Mac computers.
- Fixed issue where it was not possible to share patient data (GoShare) when the date of birth was unrealistic.
- Fixed issue where editing the acquisition date for imported media to today was not possible.
- Fixed issue where opening a PMS patient record that had been deleted created a phantom locked patient record.
- Fixed issue where software hangs when using spotlight action and when the user switched between apps.
- Fixed issue when an offline available patient record is partially synced it could miss local media files.
- Fixed issue where the Clinic module would crash when importing an intraoral surface scan with special characters in OS username.
- Fixed issue where locally captured data would not be available in a specific 'offline available' scenario.
- Fixed issue where a sync was necessary after media was deleted on DTX Studio Core.

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- Clinic tray app icon now has correct color when using Dark Mode on macOS.
- Fixed an issue where a 'delete series notification' was triggered even when deleting a single image PAN.
- Fixed issue where the brightness changed unexpectedly in the preview window when flipping the image.
- Fixed issue where the DAP value could be incorrectly shown in UI and/ or incorrectly written to the DAP DICOM tag (in wrong units).

DTX Studio Clinic Module

- Fixed issue where the Intraoral workspace was zoomed out after creating a Findings report.
- Fixed issue where intraoral images were incorrectly placed in the same placeholder in a specific scenario.
- Fixed issue where SmartFocus did not update the cursor when scrolling.
- Fixed issue where the Clinic module became unresponsive after importing many 2D images.
- Fixed issue where deselecting finding screenshots in Patient menu did not work correctly.
- Fixed issue where a point in root morphology wizard could not be dragged.
- Fixed issue where PLY from iTero could not be imported.
- Fixed issue where virtual teeth angulation was shown at wrong position in Implant workspace.
- Fixed issue where user was asked to save when closing the Clinic module when opening on a different screen.

Capture Module

- Fixed a crash of the Clinic module (in specific scenario) when capture is closed while PSP device is going in sleep mode.
- Fixed issue where arming overlay was not shown when multiple sensors were plugged in (specific case).
- Fixed issue where it was not possible to capture from the Clinic module with a local device when the connection with DTX Studio Core was lost.
- Fixed issue where DTX Console (OP 3D GUI) did not start when using https connection to DTX Studio Core (in a specific case).

PMS and Third-Party

- Fixed issue where the image returned by OPPWeb did not have filters applied (e.g. with Dentrix Ascend).
- Fixed issue where OPPWeb returned an invalid URL when a patient was locked after image acquisition.
- Fixed issue where generated ceph images were not returned correctly (via OPPWeb).

Important Notes

This version will be available to all customers in launched countries and to all Envista internal accounts.





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