Software	FACAD	SW version	3.16.1	Rev. date	2026-03-26
Title	Release Notes, version 3.16				

Release Notes for FACAD, version 3.16

1 About this release

Version 3.16 is released as the 2026 release of the orthodontic tracing software Facad. This software version has been developed as a medical device according to MDR, and thus is CE marked according to Regulation (EU) 2017/745 (MDR) Annex II.

2 New features and bug corrections

2.1 AI placement of landmarks, tissues and profile line

It is possible to activate the AI functionality in Facad, which is an AI trained marker positioning method called BoneFinder, developed by The University of Manchester. 40 landmarks have been trained and deemed to be reliable for automatic placement. Landmarks not included in this set of markers are called non-AI markers below.

Automatic marker placement



When the AI functionality is activated in Facad, marker placement is performed automatically when using the tool **Place marker**. Non-AI markers still need to be placed manually, but the cursor will automatically be moved to a suggested position as usual.

Automatic placement of hard tissue and the profile line



When the AI functionality is activated in Facad, drawing of the hard tissues maxilla and mandible, as well as the profile line is performed automatically when using the tools **Draw hard tissue** and **Create profile line**.

Placement of multiple tissue items



When the AI functionality is activated in Facad, it is possible to automatically draw the hard tissues maxilla, mandible, orbit, upper and lower molars, as well as the profile line at the same time,
using the tool **Auto tissue**. A subset of these tissue items can be selected for automatic placement.

AI license

To be able to activate the AI functionality, it is necessary to enable this with an optional AI license, available for purchase from the producer of Facad (Ilexis AB) or from any of its distributors.

Risk levels

It is possible for each user to individually set the risk level you are willing to take when letting the AI functionality place markers, hard tissue, molars, and/or the profile line. See the section about ***AI risk levels*** below.

User responsibility when using AI in Facad

As the user of the AI functionality, you are yourself responsible for that the markers are placed correctly. The AI driven automatic placement is just a suggestion that you need to review. Review each marker and all tissues, and adjust if needed before you continue.

2.2 Superimposition

Smooth image movement when moving and rotating two superimposed x-ray images

It is now possible to smoothly move and rotate two x-ray images when working with superimposition, e.g. when aligning x-ray images to fit stable hard tissue structures in the skull according to Björk's structural method.

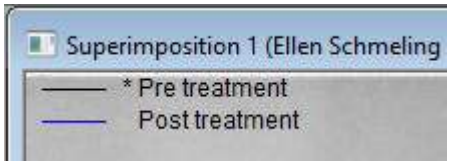
Simpler method for viewing different tracings and x-rays

It is now possible to turn the viewing of tracings and x-ray images on and off using buttons in the toolbar instead of going through the Superimposition information dialogue window each time.



Superimposition legends (explanations)

A legend (colored lines and tracing names) is now displayed in the superimposition window to explain what is visible in the window.



New superimposition alignment method “None”

The alignment method “None” neither scales nor moves the included tracings/images which makes it suitable for superimposing tracings made on the same image.

2.3 Miscellaneous

Keyboard accelerator F

New keyboard accelerator **F** means "show and activate the profile photo".
Works when the tracing image is active.

Minor bugs corrected

A few minor bugs have been corrected in this software version.

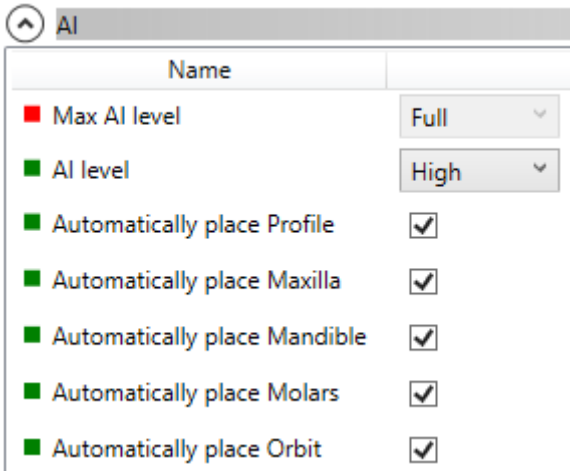
2.4 AI risk levels

As a Facad user, you can set your own risk level when using the AI functionality, see the table below.

The trained AI-markers that have been deemed to be reliable for automatic placement have been graded into 28 markers with high precision and 12 markers with a lower precision. Other markers still need to be placed manually, but the cursor will automatically be moved to a suggested position as usual.

Risk level	Explanation
Full	The same as risk level High, but with less reminders for the user to review and adjust markers if needed.
High	All AI-markers needed for the chosen cephalometric analysis and for drawing tissues and the profile line are placed automatically. Placement of multiple tissue items is available.
Medium	AI-markers graded with a higher precision are placed automatically. The cursor will be positioned for AI-markers graded with a lower precision. Placement of multiple tissue items is not available.
Low	No markers are automatically placed; the cursor will instead be positioned according to the AI algorithm. Placement of multiple tissue items is not available.

Setting your own risk level is done in the **Settings** dialogue window, activated by the menu item ***Tools>Settings***. You will find the actual setting **AI level** by expanding the **AI** group in the **Settings** window.



3 Installation information

You need to have a valid license for this update, contact your Facad dealer or the producer Ilexis AB (support@facad.com) for licensing issues. Updating a previous Facad installation to version 3.16 can be done in several ways;

- use the menu item (if it is available) **Help>Program update** in the Facad program.
- update by using the "Update Facad" option in the installation program, available from your Facad dealer or Ilexis AB.
- using an MSI installation package, also available from your Facad dealer or Ilexis AB.

Complete installation instructions can be made available from the producer Ilexis AB, please send an email to support@facad.com

License file

The license file *license.fcl* is stored in the *Licenses* folder situated in the *Patient Data Root* folder (which is most often the parent folder of the *Patient Data Node* folder).

Updating previous installations

For a smooth process when updating previous installations, please read the document *FacadInstaller_UsersGuide*, available from your Facad dealer or Ilexis AB.

Windows operating systems

Supported operating system is Windows 11.

.NET 4.7.2 requirement

Microsoft .NET Framework 4.7.2 is required for the Facad program to work.

Runtime libraries

The runtime library **Microsoft Visual C++ Redistributable v14** is required for the Facad program to work. This runtime library is included in the installation and update programs for Facad.

Program settings and the windows registry

Local user settings are stored and maintained in the local user folder *C:\Users\username\AppData\Roaming\Ilexis (Facad.settings)*

Administrator settings for Facad (not to be changed by the users) are stored in the file *Facad.Administrator.settings* located in the same folder as *Facad.exe* (which means that the *Facad.ini* file is not used any more). These administrator settings are handled by the program *Configuration.exe*

The Window's registry is not used to maintain settings for the Facad program.

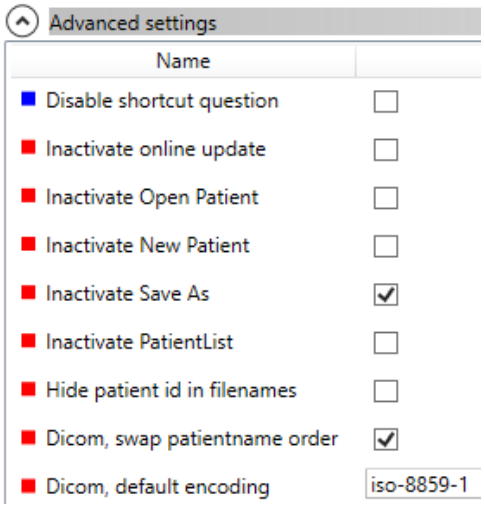
Old Facad installations

Facad installations older than version 3.0 should not be updated to 3.16. The old program installation should instead be removed (do not remove Facad data) and a new installation should be made.
Please, contact the manufacturer Ilexis AB for support regarding updating really old installations.

4 Known issues and limitations

DICOM images with wrong character encoding

There are imaging software that export DICOM images with the wrong character encoding, making special characters (such as å, ä, ö, æ, ø) appear strangely. This can be rectified by using the program *Configuration.exe* and modifying the setting **Dicom, default encoding** to apply a specific character encoding for DICOM images.



High screen resolution

On laptops and image displays with a very high resolution, Windows applies display scaling that in some cases might result in undesired *fuzzy fonts* or really tiny icons and text sizes. This functionality can be set to work better by adjusting the executable's properties (right-click on *Facad.exe* and select *Properties*).

Windows 11

Go to the *Compatibility* tab, and click the *Change high DPI settings* button.
Enable the check-box *Use this setting to fix scaling problems for this program instead of the one in Settings*. Under the *High DPI scaling override* section, enable the *Override high DPI scaling behavior* checkbox. Finally, select the *System* option in the drop-down *Scaling performed by:*

If you are running an older Windows version (which you shouldn't), it looks slightly different:

Windows 10

Go to the *Compatibility* tab, and check the check-box *Override high DPI scaling behaviour. Scaling performed by:* and select *System* in the drop-down.

Windows 8.1 and older Windows 10

Go to the *Compatibility* tab, and check the check-box *Disable display scaling on high DPI settings*.

Facad fails to start (rarely)

Facad fails to start under Windows 11 or Windows 10 very rarely. By setting the compatibility mode on *Facad.exe* to Windows 8, it starts better.