X-GUIDE®
QUICK REFERENCE GUIDE

FastMap® Navigated
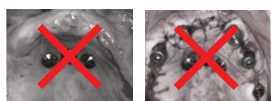## Photogrammetry for the Dental Lab

Thanks to navigation, X-Guide's **Navigated FastMap** export contains Scan Bodies in the same coordinate system as the Intraoral scan (IOS) used to digitally design the Lab's wax-up in the treatment plan.
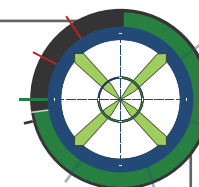
IOS soft tissue scans

- This means **there is NO need to take Pre- and Post-surgical soft tissue IOS scans with fixation fiducial screws to align the photogrammetry capture to the Lab Digital Wax-up/Treatment Plan IOS, which is required for traditional (basic) photogrammetry units.**

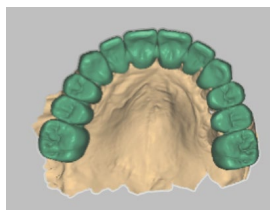- FastMap can capture from All on 3 to All on 8 MUA positions.

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①
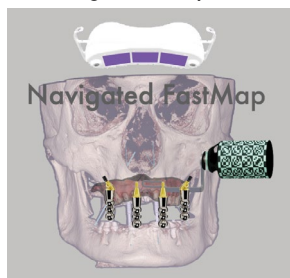### FastMap Navigated Photogrammetry: LAB Workflow At a Glance

Digital Wax-up is transferred throughout the workflow to maintain the same coordinate system.

A. Lab creates Digital Wax-up on Treatment Plan IOS.

This information is integrated into the X-Guide Plan.

B. The clinician performs the FastMap Navigated Photogrammetry Scan.

Navigated FastMap

Immediately after Navigated Implant surgery. The Patient Tracker Pattern serves as the fixation fiducial screws, and locates the patient anatomy relative to the Treatment Plan and relative to the final implant placement.

C. The clinician Exports FastMap Open STL: Scan Bodies & Treatment Plan IOS in same coordinate system.

ZIP

Export converts FastMap Scan Body to Elos IO 2C-A AND to Nobel White Caps.

D. Merge in Lab Design Software. No need for fiducial IOS scans.
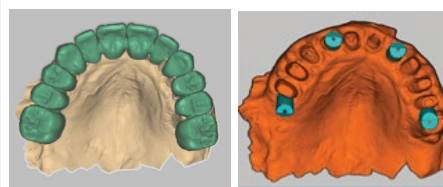
Keep in mind, there is no need for IO scans with fixation fiducial screws as the X-Guide Tracker & Registration replaces it.

E. The Lab Finalizes Provisional Design for Fabrication.

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FastMap Output data will come in a ZIP single file → **DOWNLOAD SAMPLE Navigated FASTMAP DATASET**

Uncompressed File Structure – Navigated FastMap:

Name	Type
📁 Advanced	File folder
📁 SupplementaryData	File folder
📄 Export_Summary	Text Document
💧 MAXILLA_Anatomy_IOS	STL File
💧 MERGED_MAXILLA_Elos-IO2C-A-NobelBiocare-MultiUnitNPRP	STL File

Import these 2 files into design software. We auto convert the FastMap Scan Bodies into the Elos IO 2C-A geometry.

NOTE: Nobel White Cap & more Elos IO data is in the **ADVANCED** folder.

ADVANCED Folder:

Name	Type
📁 _Elos-IO2C-A-NobelBiocare-MultiUnitNPRP	File folder
📁 _Elos-IO2C-B-NobelBiocare-MultiUnitWP	File folder
📁 _white-cap-NobelBiocare-MultiUnitNPRP	File folder
📁 _white-cap-NobelBiocare-MultiUnitWP	File folder
📁 _XNav-IO2C-A-NobelBiocare-MultiUnitNPRP	File folder
📁 Diagnostics	File folder
💧 MERGED_MAXILLA_Elos-IO2C-A-NobelBiocare-MultiUnitNPRP	STL File
💧 MERGED_MAXILLA_Elos-IO2C-B-NobelBiocare-MultiUnitWP	STL File
💧 MERGED_MAXILLA_white-cap-NobelBiocare-MultiUnitNPRP	STL File
💧 MERGED_MAXILLA_white-cap-NobelBiocare-MultiUnitWP	STL File
💧 MERGED_MAXILLA_XNav-IO2C-A-NobelBiocare-MultiUnitNPRP	STL File

FAQ's:

Do we need a post-surgical IOS soft tissue scan?

- It is not required for aligning the meshes in the design software, but if you would like a post-surgical soft tissue profile, the clinician can capture that IOS. The fixation fiducial screws are not required. If taking this scan, the clinician should use the Nobel Healing Cap Multi-unit (29064/5 pack or 31145/single pack) or Elos IO 2C-A during capture. (FastMap will export both geometries in the same coordinate system with the original pre-op treatment planning IOS used for digital wax-up.)

Nobel White Cap Healing Abutment (For the Nobel Biocare workflow, please use their white cap healing abutment for the post surgical IOS soft tissue scan.)

or

Elos IO 2C-A

- Some labs choose to skip the post-surgical IOS scan (since it is not needed to merge datasets). Labs design the prosthesis assuming soft tissue is 2 or 3mm below MUA level. Lab and clinician must agree on design method.

In Exocad, can I use DESS Screws with FastMap Data?

- Yes, this is how: Select the library parts from the Select Library drop down menu in the Wizard. Match to the scan abutment using the red marked spot.
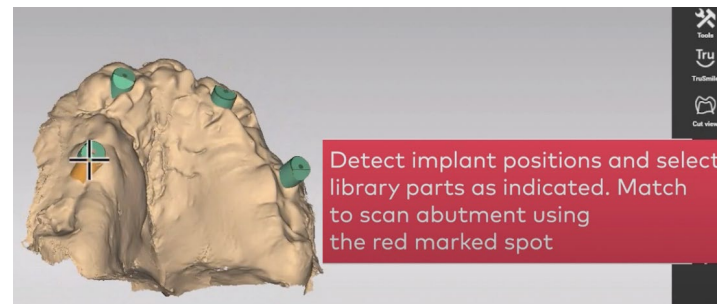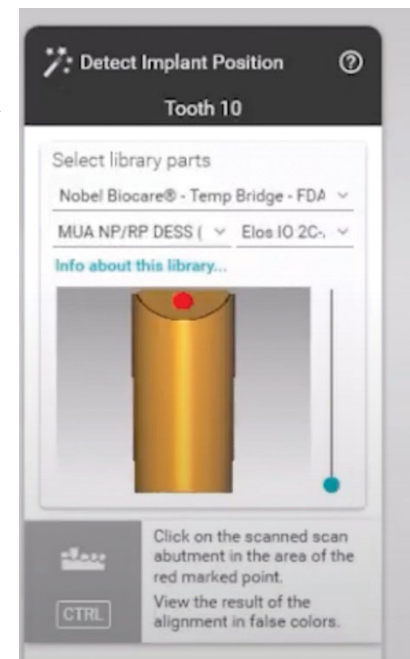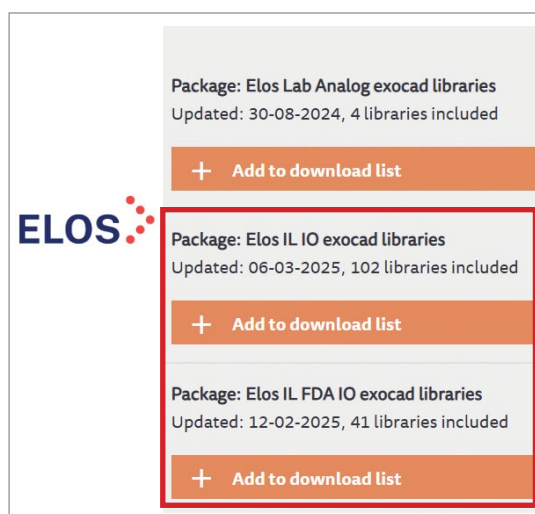
FAQ's:

How do we access different geometry (shapes) libraries in Exocad Design Software?
Click **EXOCAD LINK** to download various packages for: **ELOS, Nobel Biocare, DESS**

ELOS
Download Packages: Elos IL IO exocad libraries (for non-US customers) and Elos IL FDA IO exocad libraries (for US customers). This package contains the Elos Accurate – Hybrid Base Non-Engaging library, which contains the Elos IO 2C-A STL geometry.
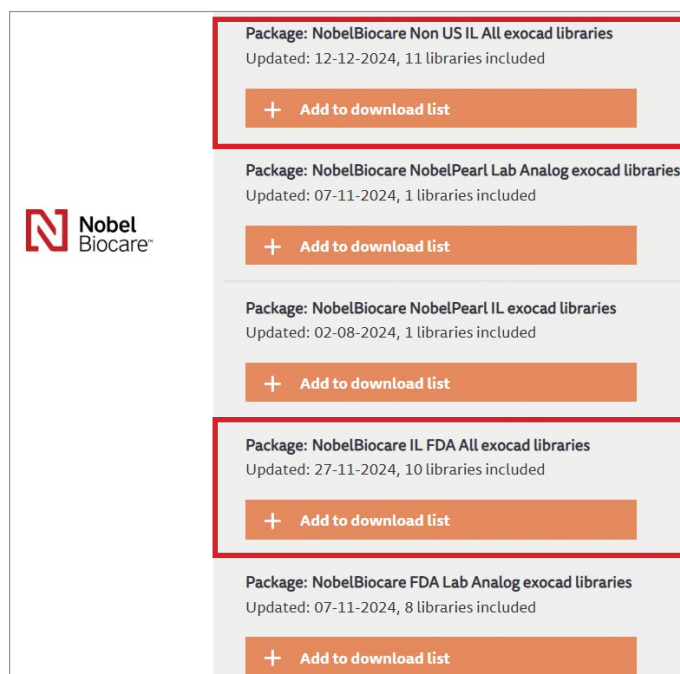
Package: Elos Lab Analog exocad libraries
Updated: 30-08-2024, 4 libraries included
`+ Add to download list`

Package: Elos IL IO exocad libraries
Updated: 06-03-2025, 102 libraries included
`+ Add to download list`

Package: Elos IL FDA IO exocad libraries
Updated: 12-02-2025, 41 libraries included
`+ Add to download list`

Nobel Biocare
Download Packages: Nobel Biocare Non US IL ALL exocad libraries and Nobel Biocare IL FDA All exocad libraries. This package contains the Nobel Biocare – Temp Bridge library, which contains both the Elos IO 2C-A and Nobel whitecap (Healing Cap 31145) geometries with specific DESS screw sizes.
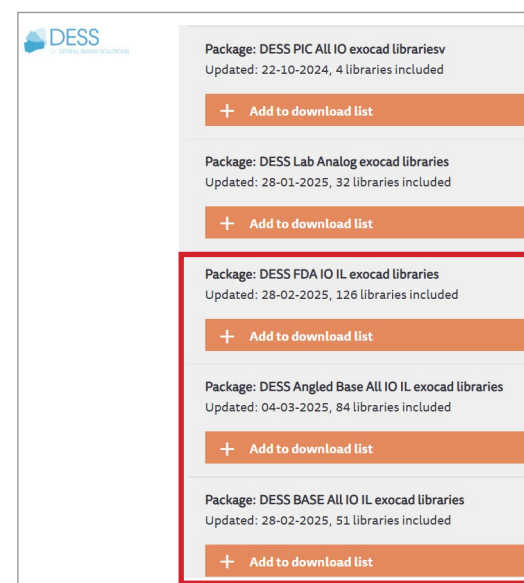
Package: NobelBiocare Non US IL All exocad libraries
Updated: 12-12-2024, 11 libraries included
`+ Add to download list`

Package: NobelBiocare NobelPearl Lab Analog exocad libraries
Updated: 07-11-2024, 1 libraries included
`+ Add to download list`

Package: NobelBiocare NobelPearl IL exocad libraries
Updated: 02-08-2024, 1 libraries included
`+ Add to download list`

Package: NobelBiocare IL FDA All exocad libraries
Updated: 27-11-2024, 10 libraries included
`+ Add to download list`

Package: NobelBiocare FDA Lab Analog exocad libraries
Updated: 07-11-2024, 8 libraries included
`+ Add to download list`

DESS
Download Packages: DESS FDA IO IL exocad libraries (US customers) and DESS Angled Base All IO IL exocad libraries and DESS BASE All IO IL exocad libraries (non-US customers).

Package: DESS PIC All IO exocad librariesv
Updated: 22-10-2024, 4 libraries included
`+ Add to download list`

Package: DESS Lab Analog exocad libraries
Updated: 28-01-2025, 32 libraries included
`+ Add to download list`

Package: DESS FDA IO IL exocad libraries
Updated: 28-02-2025, 126 libraries included
`+ Add to download list`

Package: DESS Angled Base All IO IL exocad libraries
Updated: 04-03-2025, 84 libraries included
`+ Add to download list`

Package: DESS BASE All IO IL exocad libraries
Updated: 28-02-2025, 51 libraries included
`+ Add to download list`