

USER MANUAL

EOS
Portal

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NOTE

Any personal data appearing in the screen captures of this document are fictional.


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1 Introduction

This software, available online, is a platform designed for the management of orthopedic operations handled via the dedicated preoperative planning process. It is available at the following addresses:

- <https://eos3dservices.com> from the United States.
- <https://eos3dservices.eu> or <https://onefit-online.com> from Europe, Canada, Japan, and Australia.

The software User Manual, General Terms and Conditions of Use (GTCU) and imaging protocols are available in electronic format from the software interface. The button  enables access to the page listing these documents. It is possible to display them directly in the browser simply by clicking on the name of the document required. For downloading, a PDF reader (for example, Adobe or Foxit Reader, which can be accessed free of charge) is required

NOTE

Any serious incident that has occurred in relation to the device should be reported to EOS imaging and to the local regulatory authority in the countries of the European Union and in countries whose regulation requires it.

1.1 Indications for use

EOS Portal is a secure online digital platform allowing collaboration between Radiologists, Orthopedic Surgeons, Industry representatives and EOS imaging Staff. EOS Portal provides centralized access to patient data and dedicated applications throughout the orthopedic clinical care pathway.

1.2 Compatibility with other medical devices

EOS Portal can receive data from the sterEOS workstation, software version 1.8.

See section "4.2.2 New modeling request from sterEOS" for more details on operation.

EOS Portal provides access to the following planning software:

- oneFIT knee planner.
- hipEOS,
- spineEOS.

1.3 Precautions for use



IMPORTANT

Read the user manual carefully before using.

1.4 Minimum required configurations

The software can be used with the following web browser versions:

- For Windows 10/11: Google Chrome 111, Mozilla Firefox 110, Internet Explorer 11, Edge 110.
- For MacOS Monterey/Ventura: Google Chrome 111, Mozilla Firefox 110, Safari 16.2.

Internet configuration:

High speed internet connection is required: DSL 2Mb/s connection or better, Wi-Fi or Ethernet.

NOTE









Other connections, such as 4G/3G connections can be used, but they must be stable. This type of connection is not advised for the transfer or download of the files; the user may find it is slow.

It is not advisable to use the software via a proxy connection.

1.5 Product information

Information for product identification is available from the software via a dedicated interface (see section "3.7 Menu").

The following symbols are used on this page:

Symbol	Meaning
	Medical device
	UDI
	Manufacturer
	Distributor
	CE marking
	Valid for the United States: Caution: Federal law restricts these devices to sale by or on the order of a physician.
	Designated representative for the distribution of spineEOS in the country indicated (CH: Switzerland)
	Designated representative for the distribution of spineEOS in the country indicated (UK: United-Kingdom)

2 Security recommendations

The use of the products does not require any additional software on the user's computer except an up-to-date web browser.

The product provides access to sensitive patient health information (PHI), and user should be mindful while using the product. The user is responsible for the security aspects of his computer.

The following section provides common recommendations about security on the web that applies to the product's use.

2.1 User Credentials

The product requires users to login before accessing any data or resources. An automatic logout is configured (24 minutes of inactivity).

Each user has a unique account created when purchasing the product. Accounts and credentials shall not be shared among multiple users.

The product uses the following security measures to protect accounts:

- User must define strong password:
 - The size of the password must be at least 8 characters included 3 out of the 4 below:
 - Has at least one uppercase
 - Has at least one lowercase
 - Has at least one number
 - Has at least one symbol (!@#\$%^&*()_+~[]{}|:;'",.<>/?).
- Accounts use multi-factor authentication:
 - The user identity is verified by sending a message, to the phone when attempting to login.
 - The phone number is defined when creating an account.

ATEC and EOS employees do not have access to your password, and in any event, would never ask you to provide your password.

If this happens, contact immediately your ATEC/EOS representative, or use the contact information available in §6 Contact us.

2.2 User environment

The use of a modern, auto-updated, browser is recommended.

The user must respect the common recommendations about security on the web:

- Apply security updates to the user's computer as soon as they are available
- Use antivirus software on the user's computer
- Download applications only from official websites
- Don't diffuse any information, especially about application's access and patient data on social networks
- Separate personal and professional uses
- Avoid public or unknown Wi-Fi networks

2.3 User access

The product implements HTTPS protocol for communication between the user's web browser and the application's server. The protocol encrypts end-to-end communication to ensure confidentiality, and integrity, of information.

The user must respect the common recommendations about security on the web:

- Use only the following address to access the application
 - <https://eos3dservices.com> from the United States
 - <https://eos3dservices.eu> from the rest of the world
- Make sure that the connection uses HTTPS protocol to access the application
- Log out from the application after each use

ATEC and EOS products use a trusted certificate authority to enable https. If your browser notifies an untrusted certificate when using the product, close your browser and contact immediately your ATEC/EOS representative, or use the contact information available in §6 Contact us.

2.4 Application's Servers

EOS Portal is a web application hosted and deployed on a datacenter certified for hosting Patient Health Information and is HIPAA/HDS compliant.

The main feature of the server is to protect personal health information. The server is installed in an environment that complies with the standards in force for this type of use. Moreover, the https protocol is used to connect to it, thus ensuring data transfer security.

Server's security is under the responsibility of the manufacturer.

2.5 Information to the user

The deployment of a new version of the device is followed by an information to the user on what updates have been performed on the device. The user has directly access to the last version of the device is a web application.

If a cybersecurity vulnerability or event is detected on the device, depending on its severity and impact on the user, a communication is performed with details on vulnerabilities and recommendations.

2.6 Report a cybersecurity incident

If you believe a potential security vulnerability occurs in one of our products or services, please contact us immediately. Contact details are available at §6 Contact us.

So, we can proceed to proper investigation and initiate corrections as soon as possible, please provide at least the following:

- Contact details (name and address of the site, contact person name, function, phone number and email address)
- Product impacted (Model and serial number)
- Date and time of incident
- Any error message that has appeared
- Any action made by the user before and after the security vulnerability was suspected
- Any other event or source from which the security vulnerability is suspected to come from
- Any additional information you judge necessary to understand and investigate the event

3 General information

3.1 Interface and customization

The interface, and in particular the colors used, depend on the theme employed by the user.

3.2 User profiles

Three types of user profiles can login to the platform:

- "Radiologist": users handling medical imaging data,
- "Surgeon": orthopedic surgeons validating pre-operative planning,
- "Distributor": users following and assisting the surgeons.

3.3 Create your account

A customer or a prospective customer can request the creation of their account online, via the link "account creation" on the login page.

A form appears to collect the information required. A sales representative will contact the future user to finalize the creation of their account.

3.4 Connect

The connection to the platform is made via the addresses indicated in the "Introduction" section.

Users can then enter their personal details and click on "Login".

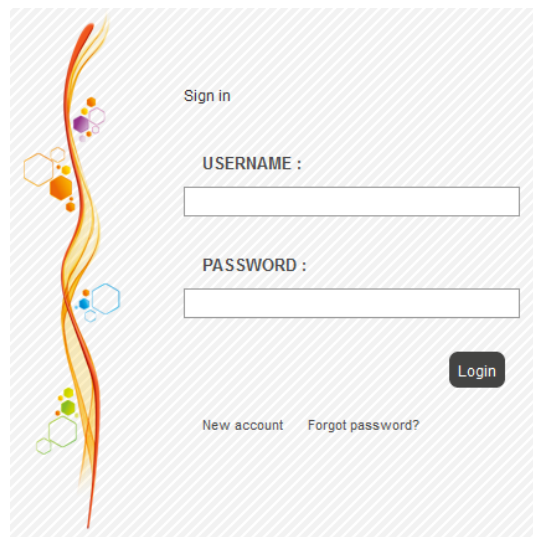


Figure1: Login page



IMPORTANT

Login details are strictly personal and must not be disclosed to anyone.

NOTE

- When logging in for the first time, the user should choose a new password. The password must contain a minimum of 8 characters, including at least three of the four following types: upper case letters, lower case letters, numerals, and special characters (!@#\$%^&*()_+=[{};:'"|.,<>V?).
- If the user is inactive for more than 24 minutes, the session expires. At the next action, the login page will appear.

3.4.1 Management of authentication errors

In the case of an error with the login details, the user must validate a captcha for future login attempts.

After five failed login attempts, the user must use the password recovery procedure (see section " 3.5 Password retrieval ").

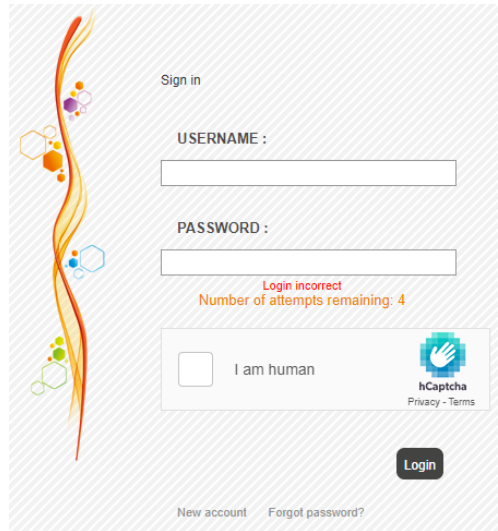


Figure2: Login failure

3.4.2 Strong authentication

After entering the correct login details, if "strong authentication" is activated on the user's account, he or she will receive an SMS immediately containing a temporary code that must be entered to finalize the authentication procedure.

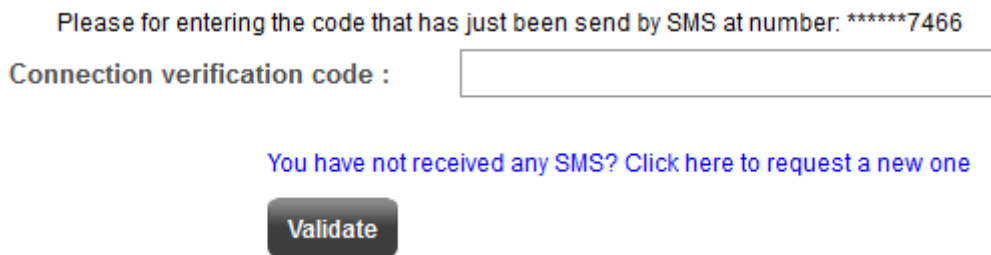


Figure3: Security code

In the case of the SMS not being received, or if the code is no longer valid, a link allows you to request a second code.

NOTE

- It is not possible to request a third code.
- Each code is valid for 5 minutes.

3.5 Password retrieval

A "forgotten password?" link becomes available from the login page and allows users to request password recovery. For this, you simply enter your login details and complete a captcha. An email containing a link allowing you to reset the password will be sent automatically. After modifying the password in accordance with the criteria indicated, the user is redirected to the login page.

Please enter your username in order to be sent a new password :



I am human  hCaptcha
Privacy - Terms








Figure4: Forgotten password form

3.6 General Terms and Conditions of Use


When connecting for the first time, the surgeon is redirected to the General Terms and Conditions of Use (GTCU). These must be accepted to continue using the website. They are available to view and download from the "Documentation" page, which can be accessed by clicking  on the Home page

3.7 Menu

After the login, the user has access to a list of buttons at the top right of the interface which make various actions possible:

-  To send an email to the EOS imaging team,
-  To return to the Home page (a click on the logo at the top left fulfills the same purpose),
-  To access documentation,
-  To access the e-learning platform,
-  To access the information relating to the user account connected,
-  To access product information (see section "1.5 Product information"),
-  To log out.

3.7.1 My account

By clicking on my account "  ", users can modify:

- Their personal details:
 - Surname,
 - First name,
 - Telephone number,
 - Email address (it is possible to enter up to three different addresses),
- The demonstration patient display (not applicable for "radiologist" accounts),
- The interface's language,
- Modify their password.

3.8 Email notifications

With each change in the status of a modeling or an operation request, the associated users are by default notified by email. It is possible to configure these notifications. To do this, users can inform the EOS imaging team which emails they want to receive or not. Emails may contain a link providing direct access to the relevant content on the platform. The emails sent are listed below.

3.8.1 Management of modeling ("Surgeon" and "Radiologist" users):

- Provision of modeling (requests for EOS imaging only).

3.8.2 Management of interventions ("Surgeon" and "Distributor" users):

- New intervention created,
- Intervention canceled,
- Pending planning,
- Reminder to execute a plan,
- Rejection of the modeling,
- Validation of pre-planning,
- Deletion of pre-planning,
- Validation of planning,
- Deletion of planning,
- Delivery of planning-related instrumentation.

4 3D modeling:

4.1 Scanner/MRI modeling

Once connected to the EOS Portal, the user accesses their data. According to their profile, they have access to the following functions:

Profile	New modeling request	List of current modeling requests	List of archived modeling requests
Radiologist	New request	List of requests	Archives
Surgeon	New request	List of requests	Archives
Distributor	New intervention	Not available	Not available

4.1.1 New modeling request

After clicking the "New request" button, the new request form is displayed.

The screenshot shows a web form titled "New request" with a sub-header "New request" in orange. The form contains the following fields and elements:

- Title (*) :** A dropdown menu.
- Last name of the patient (*) :** A text input field.
- First name of the patient (*) :** A text input field.
- Date of birth (*) :** A text input field with the placeholder "YYYY-MM-DD".
- Joint (*) :** A dropdown menu.
- Image types (*) :** A dropdown menu.
- Surgery date :** A text input field with the placeholder "YYYY-MM-DD".
- Comments :** A large text area with a "Maximum of 400 characters" label below it.
- File upload area:** A dashed border box containing an upward arrow icon and the text "Drag & Drop the files here or Click to browse files". Above this box, it says "The following file types are accepted: dcm, doc, docx, jpg, liox, pdf, png, stl, xls, xml, xlsx and zip."
- Buttons:** "Remove all", "Cancel", and "Validate".
- Notification:** A red text message: "Your request to create a surgical intervention will be taken into account in the next 48 hours."

Figure 5: scanner/MRI modeling request form (surgeon's profile)

The following fields are available:

- Title,
- Last name of the patient,
- First name of the patient,
- Date of birth,
- Joint,
- Type of imaging,
- Side operated on,
- Surgeon (displayed only for "radiologist" and "distributor" profiles)
- Information concerning patient-specific instrumentation (displayed for the knee joint and for the "surgeon" and "distributor" profiles only),
- Distributor (displayed for "surgeon" profiles only)
- Surgery date,
- Comments.

It is possible to attach files to the request by:

- Clicking in the "Drag-Drop" zone and selecting the files.
- or
- Dragging and dropping the files in the "Drag-Drop" zone.

NOTE

- Only one or more files can be selected. It is not possible to select a folder.
- To send one or more folders, the user can create a compressed zip file containing the data. To create a compressed file:
 - Windows - Select the folder or folders with the mouse cursor and click the right mouse button, then from the menu which appears, select "Send to", and finally select "COMPRESSED FOLDER".
 - Mac - Right click the folder or folders (or Ctrl+ click) to be compressed and click the "Compress Documents" option.
- Only the following file types are allowed: dcm, doc, docx, ima, jpg, liox, pdf, png, stl, xls, xml, xlsx and zip. If other files are attached, they will be automatically deleted by EOS Portal even if they are in compressed folders.
- Only the following characters are allowed in file names: numbers, letters, spaces, periods, dashes, and underscores. Other characters will be automatically removed from file names without blocking file loading.



IMPORTANT

It is not possible to send multiple files with the same name.

Each selected file appears below the form and can be deleted by clicking on the cross symbol associated with it. The "Delete all" button allows you to erase all the files selected.

Once the form is completed and the selected files have been transferred, click on "Confirm" to start sending the data. A progress bar shows the status of the data uploading.

NOTE

The loading time for uploading the file depends on the speed of the Internet connection. The computer must not enter sleep mode during the loading, or it will fail.

Once the process is completed, a window indicates that the transmission was successful: Click "OK" to finalize the request.

NOTE

- In the EOS portal, form fields with an asterisk (*) are mandatory.
- It is not mandatory to attach files to the modeling request.
- The size of the files which can be transmitted is limited to 2 GB.

4.1.2 List of archived modeling requests

Lists of current and archived requests available only to the surgeon and the radiologist.

They contain the following information:

- ID: unique identification number of the request,
- Submission date: the date on which the user submitted the modeling request,
- Patient: civil status, last name, first name and date of birth of the patient,
- Surgeon: displayed for "radiologist" profiles only,

- Distributor: displayed if the request will result in preoperative planning, for "surgeon" profiles only,
- Joint and side: Joint and side to be modeled,
- Imaging type: Imaging type of the data sent,
- Surgery date: displayed if the request will result in preoperative planning,
- Customized instrumentation: displayed for the "knee" joint and for the "surgeon" and "distributor" profiles only,
- Comments: optional text.
- Status:
 - The "STATUS" column is only available from the list of current modeling requests. It contains the possible actions on the associated request.

Status	Description
No button.	<p>The modeling request and the associated files have been sent and are being processed.</p> <p>If file upload is in progress, a message will be displayed.</p>
The "Submit DICOM" button appears.	<p>The modeling request has been sent, but no file is attached to the request. This may be caused by:</p> <ul style="list-style-type: none"> • the files were not submitted on EOS Portal, or an error occurred during submission. • The files do not conform to the imaging protocol. The files were sent with the request, but following their review by the modeling team, it was detected that they do not allow the modeling to be performed and they were canceled. <p>By clicking on the "Submit DICOM" button, the files associated with the modeling request can be submitted again.</p> <p>When clicked, a window opens, allowing files to be attached using a tool identical to that described in section "4.1.1 New modeling request".</p>

4.2 EOS modeling

Once connected to the EOS Portal, the user accesses their data. According to their profile, they have access to the following functions:

Profile	New modeling request	List of current modeling requests	List of archived modeling requests
Radiologist	New request	List of requests	Archives
Surgeon	New request	List of requests	Archives
Distributor	New intervention	Not available	Not available

EOS modeling requests can be transmitted:

- Via EOS Portal, by making a new modeling request using the dedicated form (see section "4.2.1 New modeling request from EOS Portal").
- Via sterEOS (special configuration required), which will ensure the redirection of data and the user to EOS Portal (see section "4.2.2 New modeling request from sterEOS").

4.2.1 New modeling request from EOS Portal

After clicking the "New request" button, the new request form is displayed.

Figure 6: EOS modeling request form (surgeon's profile)

The following fields are available:

- Title,
- Last name of the patient,
- First name of the patient,
- Date of birth.
- Type of modeling desired, six types are available (see section “4.2.3 Contraindications” concerning the contraindications linked to each type):
 - Spine,
 - Lower limbs,
 - Overall posture,
 - THR, post-op,
 - hipEOS, in this case the following fields appear:
 - Side operated on,
 - Surgeon's name ("radiologist" profile only),
 - Implant distributor ("surgeon" profile only),
 - Surgery date,
 - spineEOS, in this case the following fields appear:
 - Surgeon's name ("radiologist" profile only),
 - Surgery date,
- Comments.

It is possible to attach files to the request by:

- Clicking in the "Drag-Drop" zone and selecting the files.
- or
- Dragging and dropping the files in the "Drag-Drop" zone.

NOTE

- Only one or more files can be selected. It is not possible to select a folder.
- To send one or more folders, the user can create a compressed zip file containing the data. To create a compressed file:

- Windows - Select the folder or folders with the mouse cursor and click the right mouse button, then from the menu which appears, select "Send to", and finally select "COMPRESSED FOLDER".
 - Mac - Right click the folder or folders (or Ctrl+ click) to be compressed and click the "Compress Documents" option.
- Only the following file types are allowed: dcm, doc, docx, ima, jpg, liox, pdf, png, stl, xls, xml, xlsx and zip. If other files are attached, they will be automatically deleted by EOS Portal even if they are in compressed folders.
 - Only the following characters are allowed in file names: numbers, letters, spaces, periods, dashes, and underscores. Other characters will be automatically removed from file names without blocking the file upload.



IMPORTANT

It is not possible to send multiple files with the same name.

Each selected file appears below the form and can be deleted by clicking on the cross symbol associated with it. The "Delete all" button allows you to erase all the files selected.

Once the form is completed and the selected files have been transferred, click on "Confirm" to start sending the data. A progress bar shows the status of the data uploading.

NOTE

The loading time for uploading the file depends on the speed of the Internet connection. The computer must not enter sleep mode during the loading, or it will fail.

Once the process is completed, a window indicates that the transmission was successful: Click "OK" to finalize the request.

NOTE

- In the EOS portal, form fields with an asterisk (*) are mandatory.
- It is not mandatory to attach files to the request.
- The size of the files which can be transmitted is limited to 5 GB.

4.2.2 New modeling request from sterEOS

From sterEOS, the user can select a patient's data and choose to send it to EOS Portal in the context of a modeling request.

To start sending the data, users must connect using the form that appears.

The method of dispatch varies according to the version of sterEOS.

4.2.2.1 sterEOS 1.8.5 and previous versions

After uploading, the pre-completed modeling request form is displayed, and users must check the information and confirm for the request to be considered.

4.2.2.2 sterEOS 1.8.6 and later versions

The pre-completed modeling request form is displayed immediately while the data is sent in the background. The user can confirm the form and exit EOS Portal if they wish, while the data is sent in the background. In the list of modeling requests, the "Loading" message appears in the "STATUS" column until the data transfer is completed.

It is possible to send several modeling requests at the same time via multiple selection in sterEOS. In this case, the request validation form is different. It only contains one "Drag-Drop" zone for attaching files by:

- Clicking in the "Drag-Drop" zone and selecting the files.

or

- Dragging and dropping the files in the "Drag-Drop" zone.

NOTE

- Only one or more files can be selected. It is not possible to select a folder.
- To send one or more folders, the user can create a compressed zip file containing the data. To create a compressed file:
 - Windows - Select the folder or folders with the mouse cursor and click the right mouse button, then from the menu which appears, select "Send to", and finally select "COMPRESSED FOLDER".
 - Mac - Right click the folder or folders (or Ctrl+ click) to be compressed and click the "Compress Documents" option.
- Only the following file types are allowed: dcm, doc, docx, ima, jpg, liox, pdf, png, stl, xls, xml, xlsx and zip. If other files are attached, they will be automatically deleted by EOS Portal even if they are in compressed folders.
- Only the following characters are allowed in file names: numbers, letters, spaces, periods, dashes, and underscores. Other characters will be automatically removed from file names without blocking file loading.



IMPORTANT

It is not possible to send multiple files with the same name.

Each selected file appears below the form and can be deleted by clicking on the cross symbol associated with it. The "Delete all" button allows you to erase all the files selected.

Once the form is completed and the selected files have been transferred, click on "Confirm" to start sending the data. A progress bar shows the status of the data uploading.

NOTE

The loading time for uploading the file depends on the speed of the Internet connection. The computer must not enter sleep mode during the loading, or it will fail.

Once the process is completed, a window indicates that the transmission was successful: Click "OK" to finalize the request.

NOTE

- In the EOS portal, form fields with an asterisk (*) are mandatory.
- It is not mandatory to attach files to the request.
- The size of the files which can be transmitted is limited to 5 GB.

The detail of the operations to transfer data from the sterEOS workstation to EOS Portal, is described in the sterEOS operator manual.

4.2.3 Contraindications

To be able to perform the desired modeling, the data sent must be free of the following contraindications:

Type of modeling	Contraindications
Spine	<ul style="list-style-type: none"> • Patients under the age of 7 • Patients with congenital malformations (hemivertebra, spina bifida, ...etc.)
Lower limbs	<ul style="list-style-type: none"> • Total right or left hip prosthesis

	<ul style="list-style-type: none"> • Total right or left knee prosthesis • Patients under the age of 15
THR, post-op	<ul style="list-style-type: none"> • Complete knee prosthesis on the limb to be analyzed
hipEOS	<ul style="list-style-type: none"> • Total right or left knee prosthesis • Revision of a total hip prosthesis
spineEOS	<ul style="list-style-type: none"> • Patients under the age of 7 • Patients with congenital malformations (hemivertebra, spina bifida, ...etc.)

4.2.4 List of archived/current modeling requests

The current and archived requests contain the following information (from left to right):

- ID: unique identification number of the request,
- Submission date: the date on which the user submitted the modeling request,
- Patient: Last name, first name and date of birth of the patient,
- Side: the side of the joint to be modeled, if applicable,
- Modeling:
 - Spine,
 - Lower limbs,
 - Overall posture,
 - THR, post-op,
 - hipEOS,
 - spineEOS.
- Distributor: distributor of the implants used, where applicable (displayed for "surgeon" profiles only),
- Surgeon: indicated if the request will result in preoperative planning (for "radiologist" profiles only),
- Surgery date: displayed if the request will result in preoperative planning,
- Comments: optional text.
- Status:
 - The "STATUS" column is only available from the list of current modeling requests.
 - It contains the possible actions on the associated request.

Status	Description
No button.	<p>The modeling request and the associated files have been sent and are being processed.</p> <p>If file upload is in progress, a message will be displayed.</p>
The "Submit DICOM" button appears.	<p>The modeling request has been sent, but no file is attached to the request.</p> <ul style="list-style-type: none"> • This may be caused by: The files were not submitted on EOS Portal, or an error occurred during submission. • The files do not conform to the imaging protocol. The files were sent with the request, but following their review by the modeling team, it was detected that they do not allow the modeling to be performed and they were canceled. <p>By clicking on the "Submit DICOM" button, the files associated with the modeling request can be submitted again.</p> <p>When clicked, a window opens, allowing files to be attached using a tool identical to that described in section "4.2.1 New modeling request from EOS Portal".</p>
The "Download" button appears in green	The modeling is downloadable.
The "Download" button appears in gray	The modeling has already been downloaded but can be downloaded again.

NOTE

After the initial download, the user has 48 hours to notify the EOS imaging team of any problem with the modeling. Once this time has elapsed, the modeling is considered to have been validated. It will remain available for downloading for 180 days.

5 Orthopedic planning

When requesting 3D modeling of a patient's bones, "surgeon" and "distributor" users can request access to planning software to prepare for the surgery.

NOTE

If customized instruments are ordered, allow at least 5 weeks between the date the radiology files are received and the intervention date to ensure they are delivered in time.

5.1 Intervention status

To ensure intervention tracking, a status is displayed for each intervention, as listed below:

- 1 - Segmentation in progress
 - 2 - Pending planning
 - 3 - Pre-planning validated (status displayed for "distributor" users only)
 - 4 - Validated planning (planning without request for customized instruments)
- or
- 4 - In production (planning with request for customized instruments)
 - 5 - Delivery (planning with request for customized instruments only)

Once the intervention date has passed, the intervention is archived.

5.1.1 Segmentation in progress

Following receipt and verification of the patient's images, the EOS Imaging team creates the intervention. The status of the surgical intervention in the list of surgeries switches to "segmentation in progress".

At this stage:

- The 3D modeling technicians process images to 3D model the anatomic area of the patient to be studied.
- The user can review the information saved by clicking the "Detail" button in the intervention list or anywhere else on the intervention line in question.

Figure 7: Intervention detail

If an error is detected in the saved data, the user must contact the EOS imaging team to inform them.

5.1.2 Awaiting planning and pre-planning validated

When the 3D modeling has been carried out, the status then changes to "Pending planning". Thus, the surgeon and the distributor have access to planning via the "Launch" button on the right of the interventions table.

The distributor may perform pre-planning to prepare the surgeon's planning work. This is possible if the surgeon has not saved nor validated his planning work. Once the pre-planning has been validated, the "pre-planning validated" status appears for the distributor only. This pre-planning will be offered to the surgeon at the start of the planning.

Before accessing planning, the surgeon may be directed to an interim page if:

- The surgery date is not entered,
- A comment regarding the intervention was left by segmentation operators or the distributor during pre-planning.

5.1.2.1 Rejection by the surgeon

At the opening of the planning software for the hip and spine, the surgeon is responsible for validating 3D modeling and the associated anatomical marker points. If the surgeon does not agree with the modeling and/or anatomical marker points suggested, they have the option of rejecting them. The "Rejection by the surgeon" phrase then appears in the last box of the line associated with the given case on the list of interventions.


PATIENT	Test	1980-07-24	2021-10-29	200208	 Pending planning	Surgeon rejection
---------	------	------------	------------	--------	--	-------------------

Figure 8: Rejection by the surgeon

The EOS imaging team will find out the reason for the rejection to propose a new 3D model consistent with the surgeon's expectations. Once the new data is online, the surgeon will be able to once again access planning.

5.1.3 **Planning validated/In production**

This status appears once the surgeon has validated the pre-operative planning. A planning report can be generated, summarizing all the planning parameters, and serving as instructions if customized instruments need to be produced. The report is available via the Detail under planning. Other output data may be available on this page. These are specific to each planning program.

At this stage, the planning is available for consultation by clicking the "Consult" button in the list of interventions. The planning can no longer be modified.

NOTE

For a brief period, the surgeon may ask the EOS imaging team to delete the planning if the surgeon deems it incorrect. The EOS imaging team will not fulfill the request of the surgeon if the manufacture of the instruments is already launched or if the period between the new planning and the surgery does not allow instrument delivery in time.

5.1.4 **Delivery**

This stage is only available if customized instruments are ordered for the intervention. Once the instruments are manufactured and shipped, the EOS imaging team changes the status of the intervention to "Delivery".

It is then possible to find the delivery address on the detailed planning page.

5.1.5 **Archives**

Once the surgery is completed, it is archived. Users can access all their completed surgical operations by clicking the "Archives" button.

Archiving comments can be consulted and/or a comment can be added through the "Closure" tab in the details of the intervention.

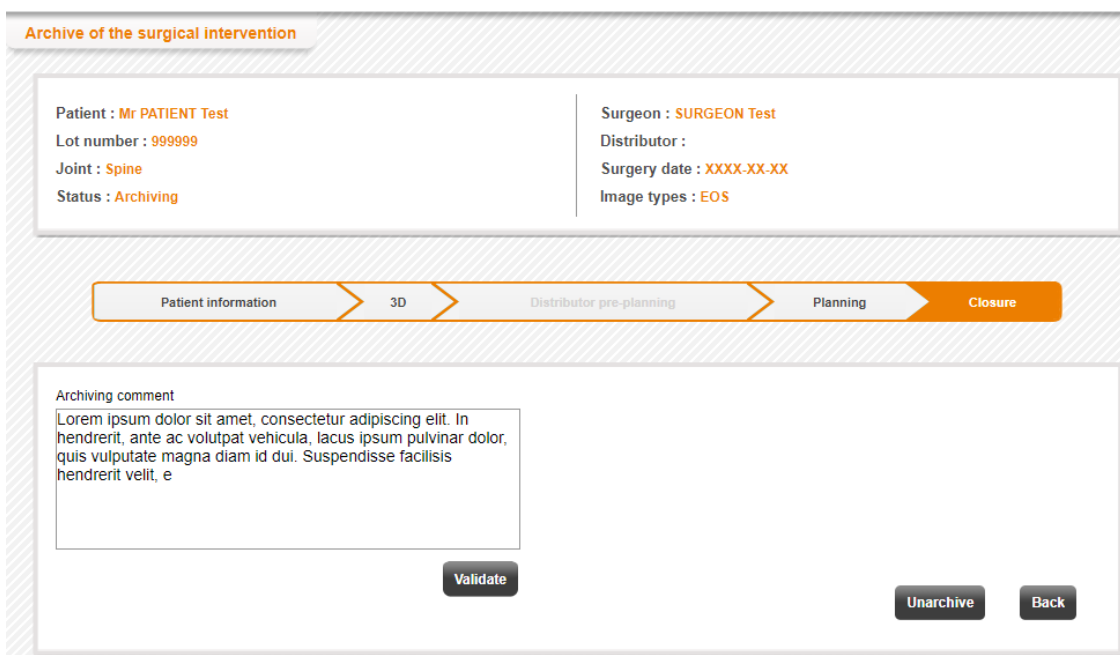


Figure 9: Closure tab - Archiving detail

NOTE

The comments can be amended by all users. Do not delete comments already made. Each comment must be added after the previous one before confirming.

5.2 Access to interventions

5.2.1 Demonstration patient

The first item in the "DEMO Patient" list is a demonstration.

In the detail of this fictitious intervention, only the "Patient information" and "Planning" tabs are available and are completed with notional data.

It is possible to display the planning report in various formats available via the "Planning" tab.

The user can manage the display or not of the demonstration case from the  "my account" page.

5.2.2 Surgical interface

Once connected, the surgeon accesses the main page.

LAST NAME	FIRST NAME	DATE OF BIRTH	SURGERY DATE	LOT NUMBER	STATUS
DEMO	Patient				<input type="button" value="Start"/>
PATIENT	Test	1980-07-24	2021-10-29	200208	■ Pending planning <input type="button" value="Start"/>

Figure10: List of interventions

The table in the middle of the page shows the list of all surgical operations in progress for the surgeon. They are listed according to the joint treated. The "Knee", "Hip", and "Spine" tabs at the top of the table display the surgeries for the joint.

NOTE

The "Hip", "Knee" and "Spine" tabs are displayed according to the joints handled by the surgeon.

Above the table, the user has access to:

- "New request" - To the form which enables 3D modeling to be performed (see section " 4 3D modeling: "),
- List of requests - To the list of 3D modeling requests in progress (see section " 4 3D modeling: "),
- Archives - To the archives of all their previous interventions handled.

5.2.3 Distributor's interface

The user has access to the interventions according to the configuration agreed upon with the EOS imaging team.

NOTE
For reasons of confidentiality, this profile can never access the complete last and first names of patients. Patients are identified using the first three letters of their last name, the first letter of their first name and the lot number.

When connected, the distributor can access the main page.

List of surgical interventions							
New surgical intervention Archives							
KNEE		HIP		SPINE			
LAST NAME	FIRST NAME	DATE OF BIRTH	SIDE	SURGEON	SURGERY DATE	LOT NUMBER	STATUS
DEMO	Patient						Start
TES	P	1950-01-12	Right	CHIR Test	2021-10-14	999999	Pending planning Start

Figure11: List of interventions

On this page, all surgical interventions with which the user is associated are listed in a table and arranged depending on the joint treated (Knee, Hip, Spine tabs).

NOTE
A tab is displayed only if the user is associated with the joint surgeries indicated by the tab.

Above the table, the user has access:

- New intervention - To the form which enables a 3D modeling request to be sent (see section " 4 3D modeling: "),
- Archives - To the archives of all these previous interventions handled.

6 Contact us

For any questions or assistance, you can contact:

- Telephone: +1 514 875 0030
- Email: 3dservices@eos-imaging.com
- Website: <https://www.eos-imaging.com>