

ZedPlanning
Order Manual



Overview

The order application in ZedPlanning called ZedClient is the client-based application that can place a planning order and manage order status for pre-operative planning cases.

System Requirement

OS: Windows 10 (64-bit) ver.1809 above

※Windows and 32-bit versions of operating systems other than those listed above are not supported

CPU: Intel Core i5 4670, i7 4770 or above

RAM: 16GB or above

Graphics card: NVIDIA GeForce GTX 1060, GeForce GTX 1050
Quadro P3200 or above

3GB of video memory or above is recommended

Display Resolution: 1920×1080 or above is recommended

.Net Framework 4.6.2 or above

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1. Download ZedClient

- ① Access the following link to download the installer.


<https://www.leximednet.com/Download/ZedClient>

- ② Click **[Download]**.

Download ZedClient



Version : 3.0.0.0
Updated Date : Apr. 26, 2022.
Manual Update Date : May. 17, 2022.

 **Download**

 **Manual**

System Requirements

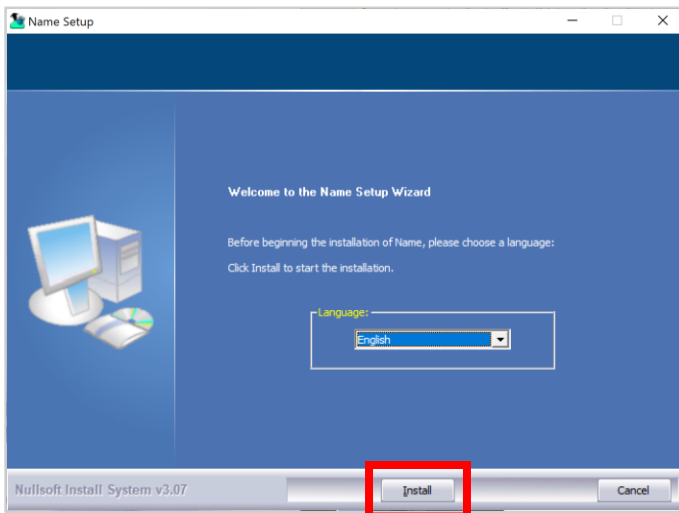
- OS:
Windows 10 (64-bit) ver.1809 above
※Windows and 32-bit versions of operating systems other than
- CPU:
Intel Core i5 4670, i7 4770 or above
- RAM:
16GB or above
- Graphic board:
NVIDIA GeForce GTX 1060, GeForce GTX 1050
Quadro P3200 or above
3GB of video memory or above is recommended
- Monitor Resolution:
1920×1080 or above is recommended

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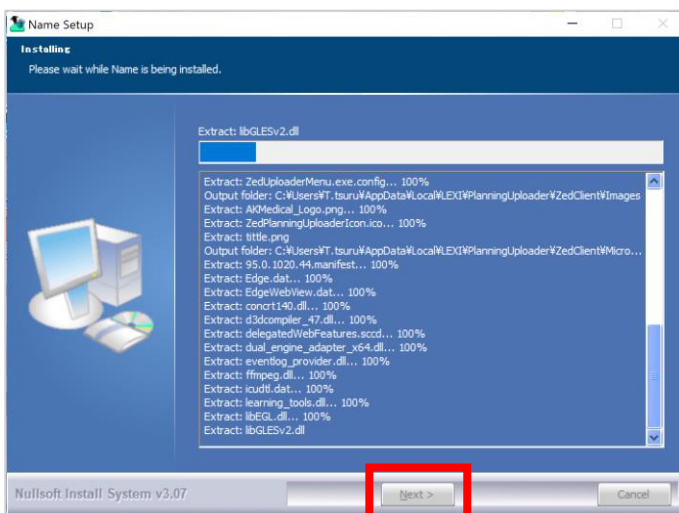


2. Install ZedClient

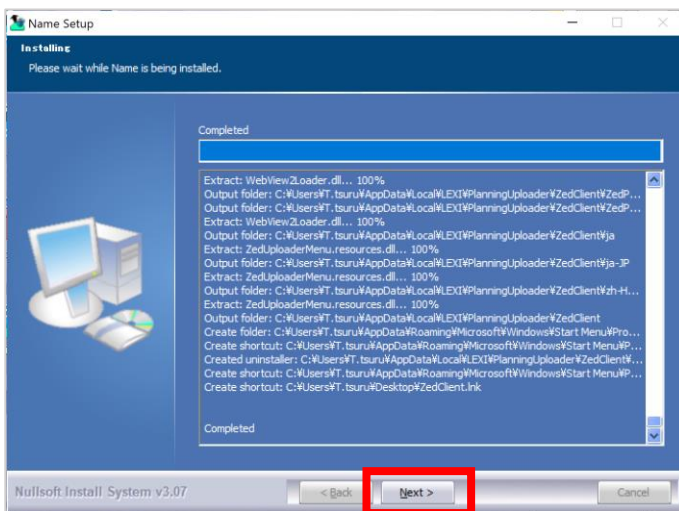
- ① Click [**ZedClient_ver.0.0.0.0.exe**], and open it.
- ② Select a language, and click [**Install**].



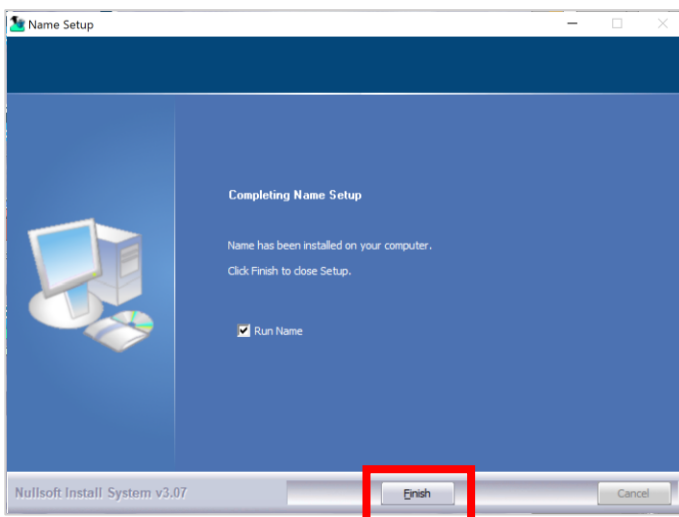
- ③ After the installation is completed, click [**Next**].



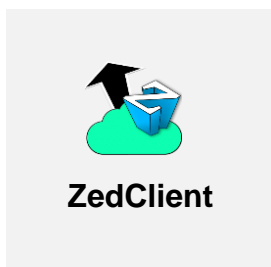
④ Click **[Next >]**.



⑤ Click **[Finish]**.



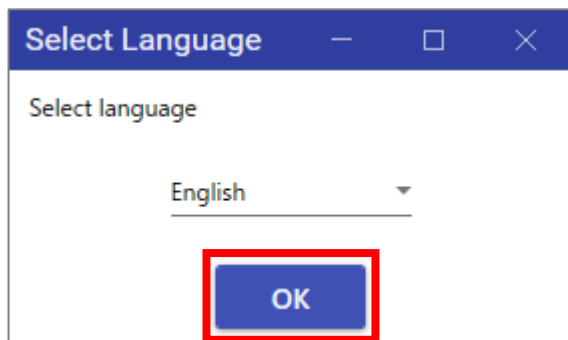
⑥ The following shortcut will be shown on your desktop, once the installation is completed.



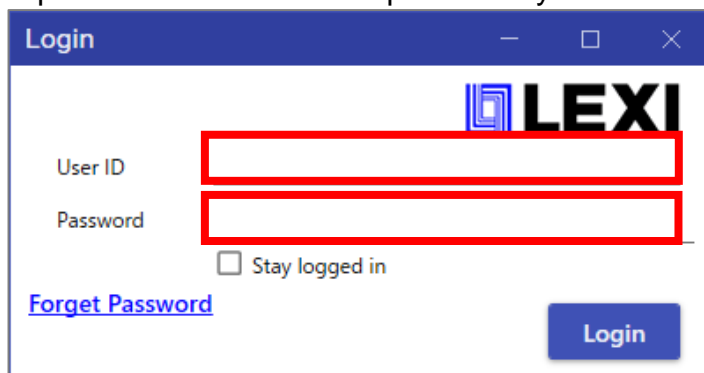
3. Start up ZedClient

- ① Once you start up ZedClient, the language setting is displayed.

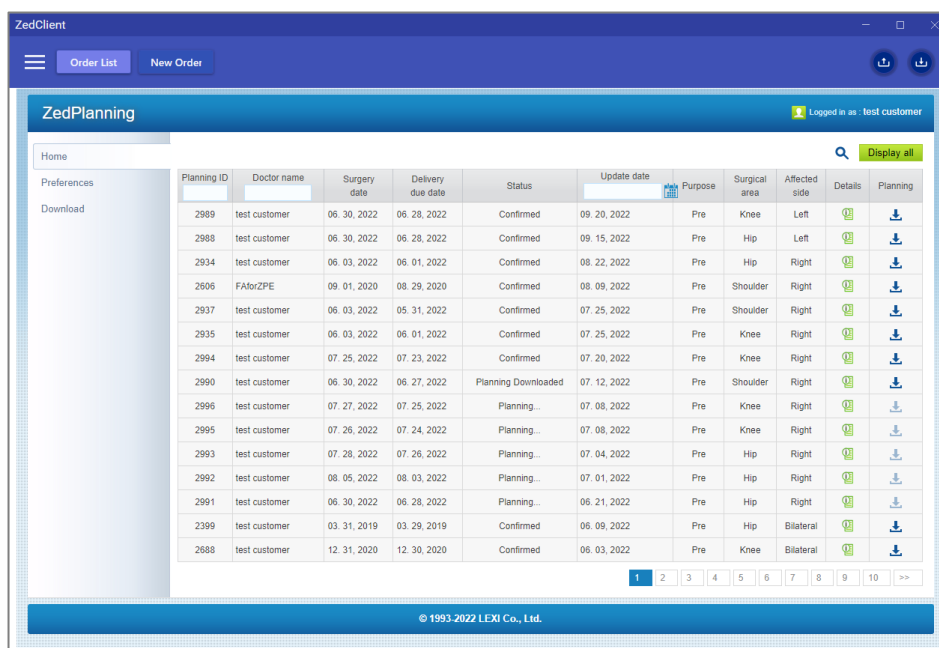
Select a language, then click **[OK]**.



- ② Input User ID & Password provided by LEXI.

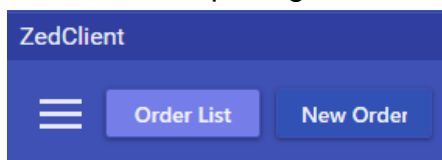


- ③ **[Order list]** is displayed as shown below.



4. Order Status

① After completing the order, switch the tab in the upper left corner to 【Order List】.



② Each status is as follows.

ZedPlanning Logged in as : test customer

Home Display all

Preferences

Download

Planning ID	Doctor name	Surgery date	Delivery due date	Status	Update date	Purpose	Surgical area	Affected side	Details	Planning
2606	FAforZPE	09. 01, 2020	08. 29, 2020	Confirmed	04. 25, 2022	Pre	Shoulder	Right		
2918	test customer	05. 26, 2022	05. 24, 2022	Finalized	04. 22, 2022	Pre	Hip	Left		
2399	test customer	03. 31, 2019	03. 29, 2019	Confirmed	04. 22, 2022	Pre	Hip	Bilateral		
2917	test customer	05. 05, 2022	05. 03, 2022	Confirmed	04. 21, 2022	Pre	Hip	Bilateral		
2688	test customer	12. 31, 2020	12. 30, 2020	Confirmed	04. 20, 2022	Pre	Knee	Bilateral		
2912	test customer	05. 03, 2022	05. 01, 2022	Planning Downloaded	04. 20, 2022	Pre	Hip	Bilateral		
2915	test customer	04. 29, 2022	04. 27, 2022	Planning...	04. 20, 2022	Pre	Hip	Right		
2913	test customer	05. 03, 2022	05. 01, 2022	Planning...	04. 19, 2022	Pre	Knee	Bilateral		
2914	test customer	05. 03, 2022	04. 30, 2022	Planning...	04. 19, 2022	Pre	Shoulder	Bilateral		
2909	test customer	04. 28, 2022	04. 26, 2022	Planning...	04. 19, 2022	Pre	Hip	Right		
2911	test customer	05. 02, 2022	04. 30, 2022	Ordered	04. 19, 2022	Pre	Hip	Bilateral		
2832	test customer	12. 24, 2021	12. 22, 2021	Finalization Request	04. 18, 2022	Pre	Hip	Left		
2910	tjs_Doctor01	04. 29, 2022	04. 27, 2022	Finalization Request	04. 15, 2022	Pre	Knee	Right		
2908	test customer	04. 28, 2022	04. 26, 2022	Planning Available	04. 06, 2022	Pre	Hip	Right		
2907	test customer	04. 28, 2022	04. 26, 2022	Ordered	04. 05, 2022	Pre	Hip	Right		

1 2 3 4 5 6 7 8 9 10 >>

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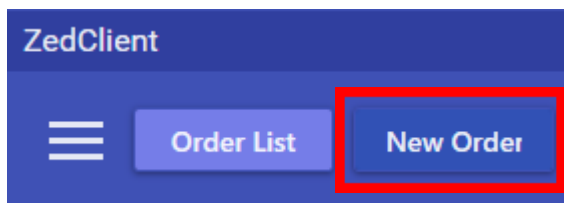
No.	Item	Status Description
①	Ordered	An order is placed by an end-user.
②	Planning...	Planner receives an order and prepares a 3D planning file for an end-user.
③	Planning Available	3D Planning file is ready for an end-user to download.
④	Planning Downloaded	Downloading an exe file is done by an end-user.
⑤	Confirmed	End-user confirms the 3D planning by clicking “Confirm” on an exe file.
⑥	Finalization Request	Finalization Request has been made and the planner is processing the finalization.
⑦	Finalized	Order is finalized and planning data and other data on the server are locked.

5. Order Pre-Operative Planning

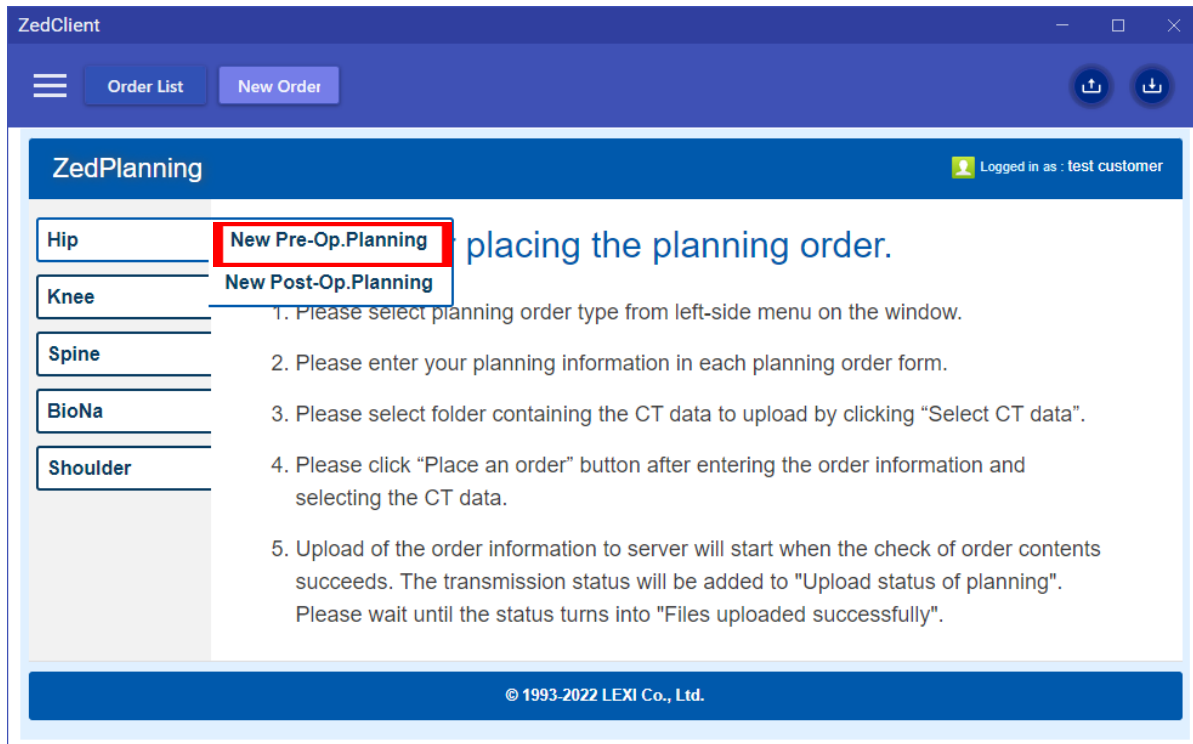
This pre-operative planning service is intended to be used by qualified medical professionals such as surgeons, planners.

Clinical Information provided by this service should be utilized by surgeons as an aid in making their own judgment, and it is fully the surgeons' responsibility to make the final decision regarding surgery in all cases, even if the clinical information is not available due to unexpected circumstances.

- ① Click on **[New Planning]** at the top of the screen.



- ② Once the screen is changed to the order screen, move the mouse cursor to the left side of the menu, then click **[Hip]** > **[New Pre-Op.Planning]**.



The order procedure for Knee and Shoulder is omitted as the steps are the same as Hip.

③ Input order information required for a new planning in accordance with the form.

ZedPlanning Logged in as: test customer

Hip: Request Pre Operative Planning

* Indicates a required field

Order to

Manufacturer : TestHeller ①

Sales rep. : T_HellerSales1

② Surgery date *

③ Delivery due date *

Schedule check Planning Only : CT data need to be uploaded at least 5 working days before the surgery
+ Modeling : CT data need to be uploaded at least 10 working days before the surgery

Commit Expiration Date :

Affected side *

④ ☐ Left ☐ Right ☐ Bilateral ⑤ Jig

Select

Ordered Implant

	Manufacturer	Series
⑥ 1	Zimmer-Biomet	Stem Kinectiv Stem
		Cup Continuum Shell Cluster-Hole
⑦ 2	Select	Stem Select
		Cup Select
⑧ 3	Select	Stem Select
		Cup Select

Coordinate System

⑨ Pelvis : Anatomical Coordinate

Femur : ISB Coordinate

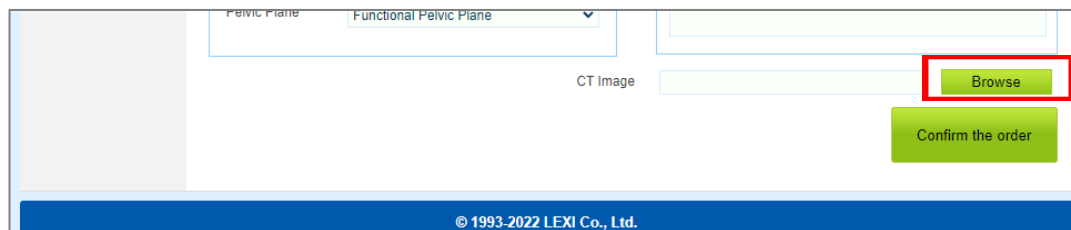
Cup Installation Standard

Pelvic Plane : Anterior Pelvic Plane

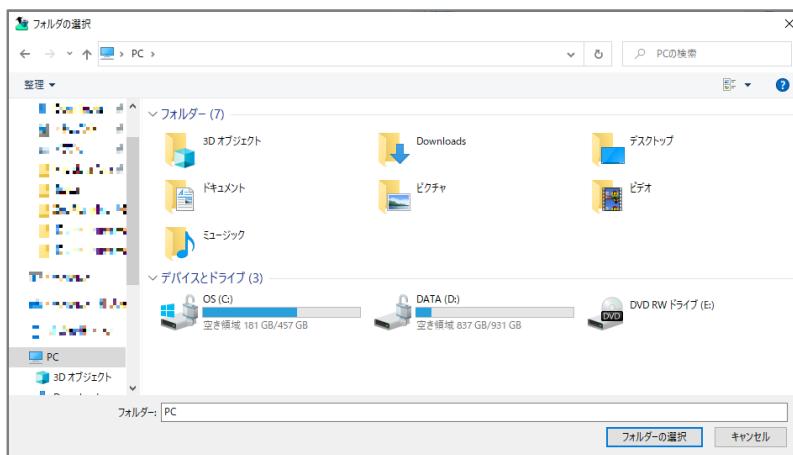
Notes ⑩

No.	Item	Description
①	Service Provider	Select a service provider from the pull-down menu.
②	Surgery Date	Specify a surgery date from the calendar.
③	Delivery Due Date	Request a pre-op. planning due date. Due date will be populated automatically, once inputting the surgery date on ②, and an error message will be show on, if there are any sets up mistakes.
④	Affected Side	Select an affected side.
⑤	Jig	Please ignore this as it is out of service.
⑥	Implant Option 1	Specify a t brand and series.
⑦	Implant Option 2	Same as above. Blank is acceptable, if not necessary.
⑧	Implant Option 3	Same as above. Blank is acceptable, if not necessary.
⑨	Coordinate system	Select a coordinate system for 3D Pre-Op. planning
⑩	Remark/Request	Put your comments here, if any.

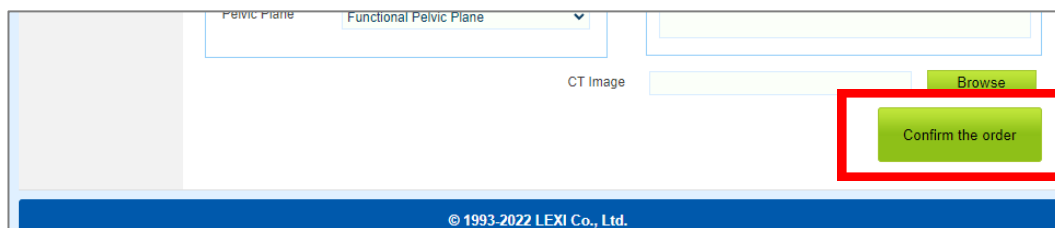
- ④ Click **[BROWSE]** at the bottom of the screen.



- ⑤ Select a folder containing DICOM data you want to upload, then click **[OK]**.

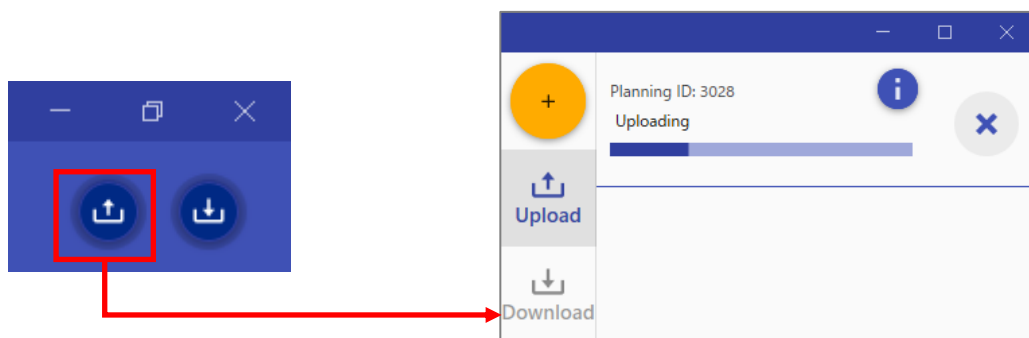


- ⑥ Click on **[Confirm the order]**.

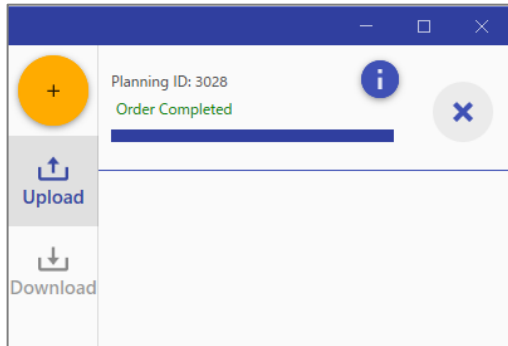


- ⑦ The status of the order uploading is shown on the top right side of the screen.

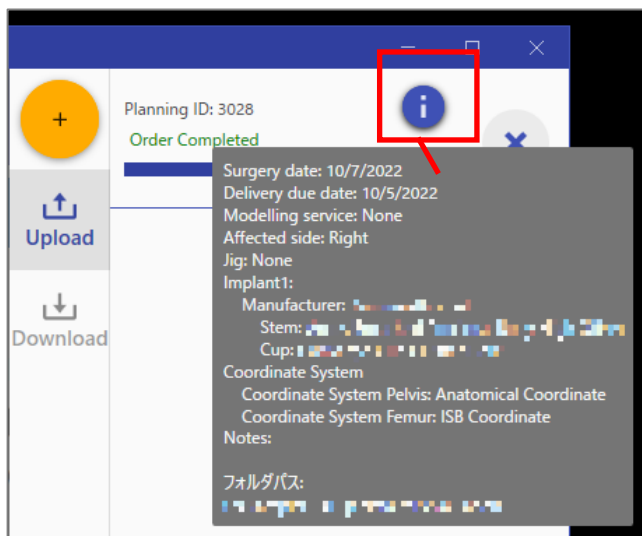
The DICOM data will be fully anonymized when uploading it to the cloud server.



- ⑧ The status is changed as shown below, when the order has been uploaded.



- ⑨ You can review the order information by clicking **[Review Order]**.



* Upload/Download status is able to confirmed from button of the application top right.



Upload/Download not executed



Uploading/Downloading



Upload/Download completed

6. Patient identifiable information table

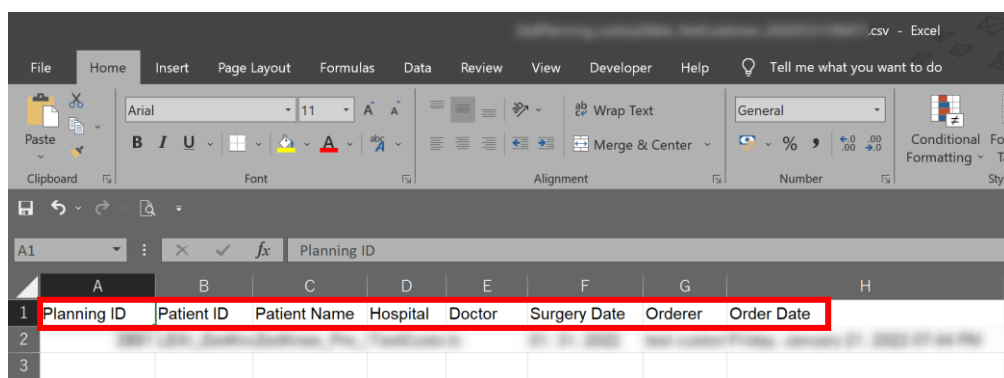
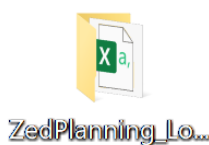
You can not identify patient information such as patient ID, patient name through Planning ID due to DICOM images are anonymized when placing an order.

To confirm to patient information, please refer to a patient identifiable information table in the csv file generated on desktop automatically.

The folder name and file name are as follows.

Folder name: [ZedPlanning_LookupTable](#)

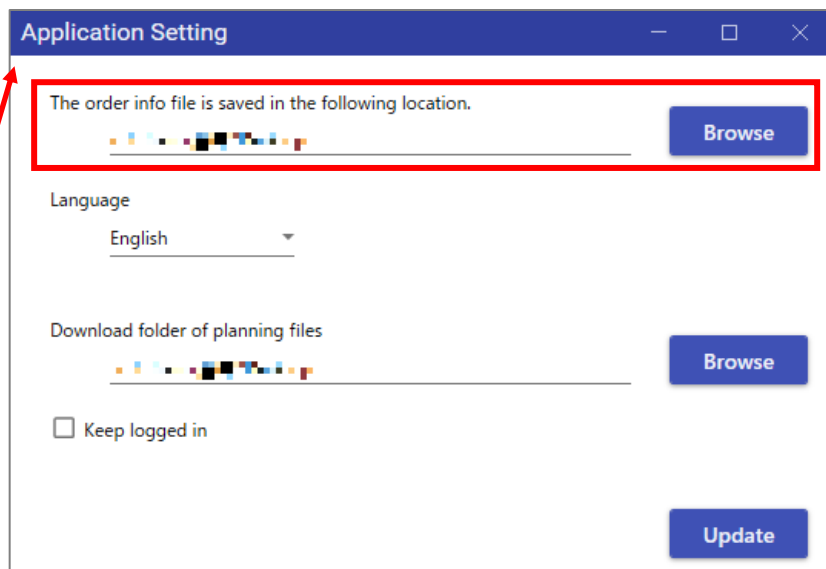
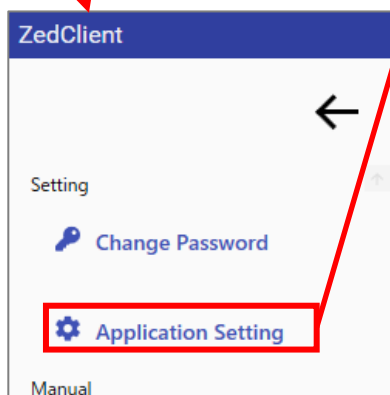
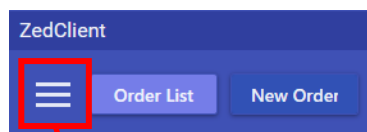
File name: [ZedPlanning_LookupTable_Hospital name_Created date.csv](#)




The screenshot shows an Excel spreadsheet with the following columns: Planning ID, Patient ID, Patient Name, Hospital, Doctor, Surgery Date, Orderer, and Order Date. The first row is highlighted with a red border.











Planning ID	Patient ID	Patient Name	Hospital	Doctor	Surgery Date	Orderer	Order Date

The csv file is saved on desktop, but you can change the default save location by clicking **[Setting] > [Application Setting]**.



7. Download a planning file(.exe)

- ① Click  and, download a planning file once the project status is in **[Planning Available]**.

Planning ID	Doctor name	Surgery date	Delivery due date	Status	Update date	Purpose	Surgical area	Affected side	Details	Planning
2894	test customer	01. 31, 2022	01. 24, 2022	Planning...	01. 22, 2022	Pre	Hip	Right		
2893	test customer	01. 31, 2022	01. 26, 2022	Planning...	01. 22, 2022	Pre	Hip	Right		
2892	test customer	01. 31, 2022	01. 25, 2022	Planning...	01. 22, 2022	Pre	Hip	Right		
2891	test customer	01. 31, 2022	01. 25, 2022	Planning...	01. 21, 2022	Pre	Knee	Left		
2714	test customer	03. 05, 2021	03. 03, 2021	Planning Downloaded	01. 21, 2022	Pre	Hip	Right		

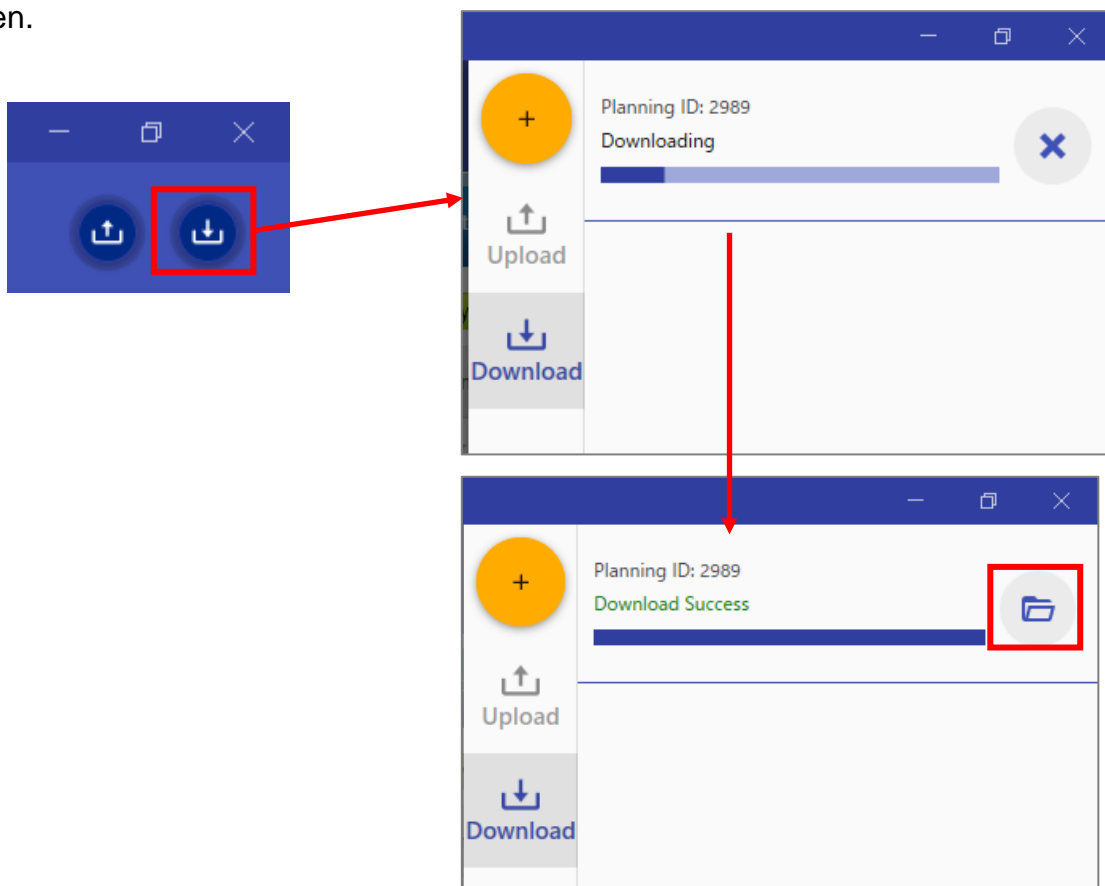
* The downloading confirmation is shown on your screen.

Normally a planning file size is approximately 200MB-300MB on an average.

Please confirm your network environment and free storage space on PC.

- ② Download progress is shown on your screen.

Click on **[Download Folder Button]**, then the folder where the file to be stored will open.

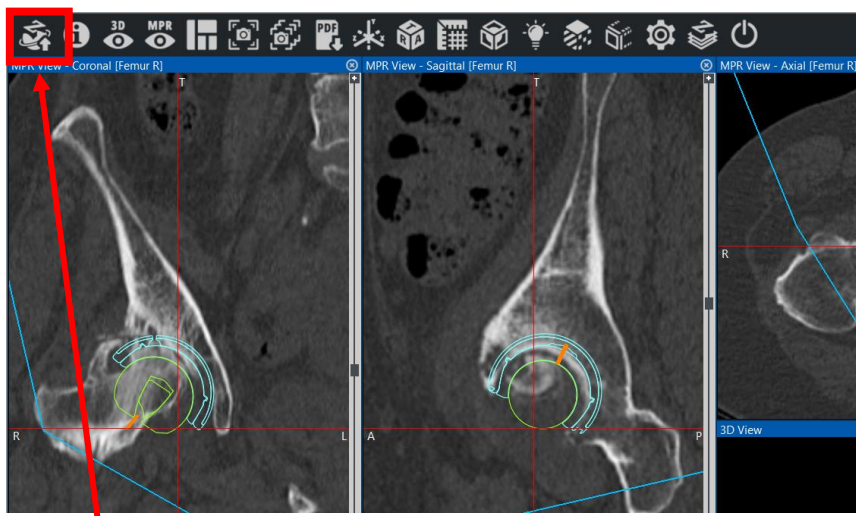


8. Confirm the Planning

After completing the planning review and editing, please "Confirm" the planning.

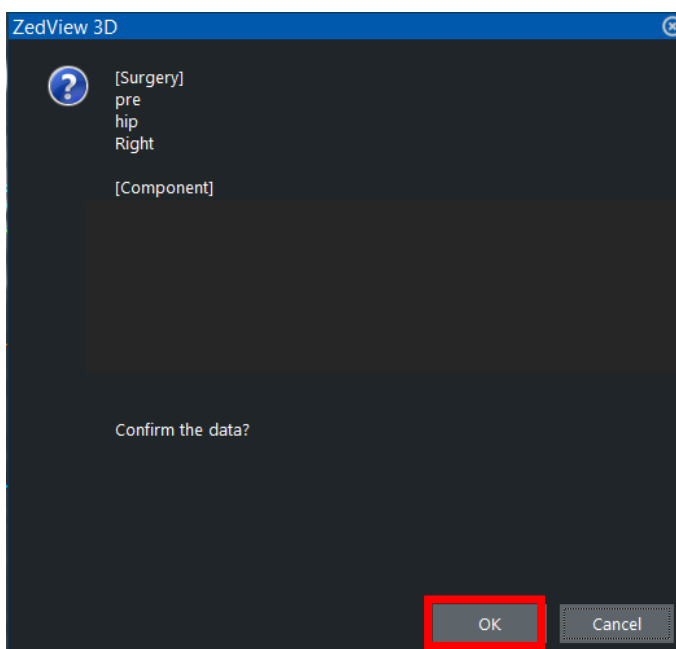
To perform this operation, your PC must be connected to the Internet.

- ① Select the planning you want to confirm from the list of proposed components and click the "Confirm / File Save" button in the top menu.

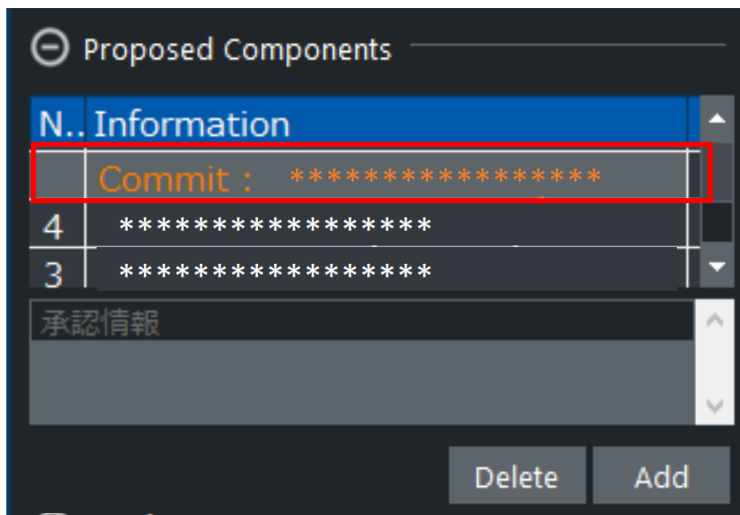


Click the "Confirm / File Save" button

- ② Review the confirmation detail and click the "OK" button.

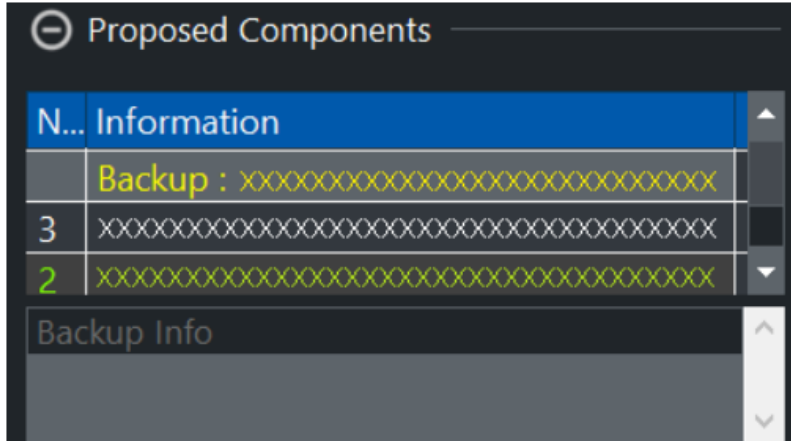


- ③ Confirmed information is displayed in orange in the proposal component.



Note: If notification fails due to problems with the Internet connection, etc., the component name will be displayed in yellow in the list.

In this case, saving changes in a locally stored file on the PC has succeeded, but updating online on the server fails.



Once confirmation is complete, information on the currently selected implant type and placement location will be backed up to the ZedPlanning server "as planning information that will be used in the surgery".

The information stored on the server will be shared with the planner and used to plan for post-operative evaluation and to improve the quality of future planning.







9. Finalization Request

When you make a "Finalization Request," the Planner updates the Planning Exe with the latest confirmed information from the server and locks that data.

This prevents accidental changes to the last updated version of the Planning Exe.

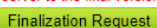
The planner considers the finalized information as the planning information to be used for the surgery and performs postoperative evaluation and guide creation. Therefore, please confirm the "Finalization Request" only after you have confirmed the planning information to be used for the surgery.

① Open the "Details" page for planning with "Confirmed" status.

Delivery due date	Status	Update date	Purpose	Surgical area	Affected side	Details	Planning
08. 29, 2020	Confirmed	04. 25, 2022	Pre	Shoulder	Right		
05. 24, 2022	Finalized	04. 22, 2022	Pre	Hip	Left		
03. 29, 2019	Confirmed	04. 22, 2022	Pre	Hip	Bilateral		

② Click on the "Finalization Request" button at the bottom of the screen (the "Finalization Request" button is only displayed for orders with an "Confirmed"

Once "Finalization Request" is carried out, "Confirm" process will no longer be possible. Please be sure to perform "Confirm" process in advance, and update the planning case on the server to the final version.





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③ Enter the login password in the authentication dialog box and click the "OK" button.

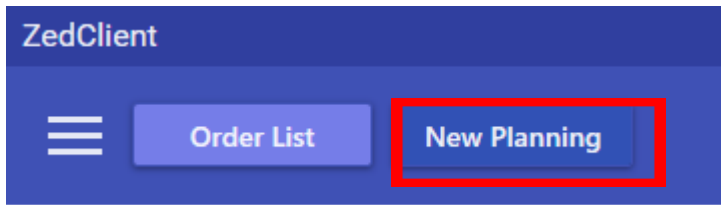
Please input your password for the authentication.

Password

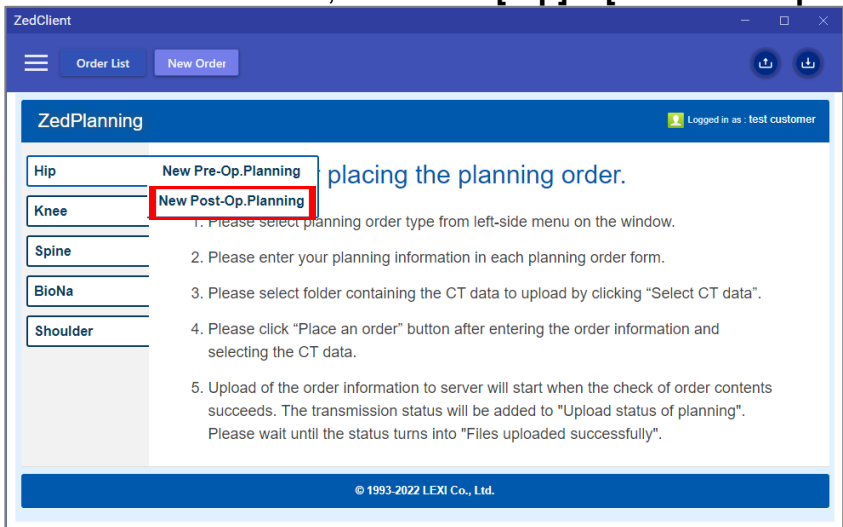
 

10. Order Post-Operative Assessment

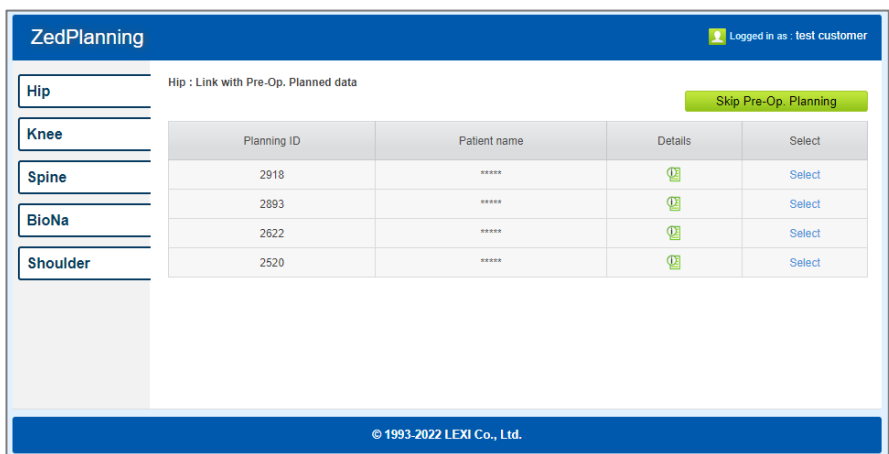
- ① Click **[New Planning]** at the top of the screen.



- ② Once the screen is changed to the order screen, move the mouse cursor to the left side of the menu, then click **[Hip]** > **[New Post-Op. Planning]**.



- ③ Select a Post- Operative Planning case.



The order procedure for Knee and Shoulder is omitted as the steps are the same as Hip.

④ Input order information required for a new planning in accordance with the form.

Hip

Knee

Liver

Spine

BioNa

Shoulder

ZedPlanning

Logged in as : test customer

Hip: Request Post Operative Planning

Linked pre-planning ID

Planning ID 0

Change

Order to

①

Manufacturer

: TestMaker

Sales rep.

: t_MakerSales1

②

Delivery due date

Schedule check

Delivery due date :

Affected side *

③

☐ Left ☐ Right ☐ Bilateral

Used Implants

④

Manufacturer

Select

Stem

Series

Cup

Series

⑤

Coordinate System

Pelvis

Anatomical Coordinate

Femur

ISB Coordinate

Notes

⑥

CT Image

Browse

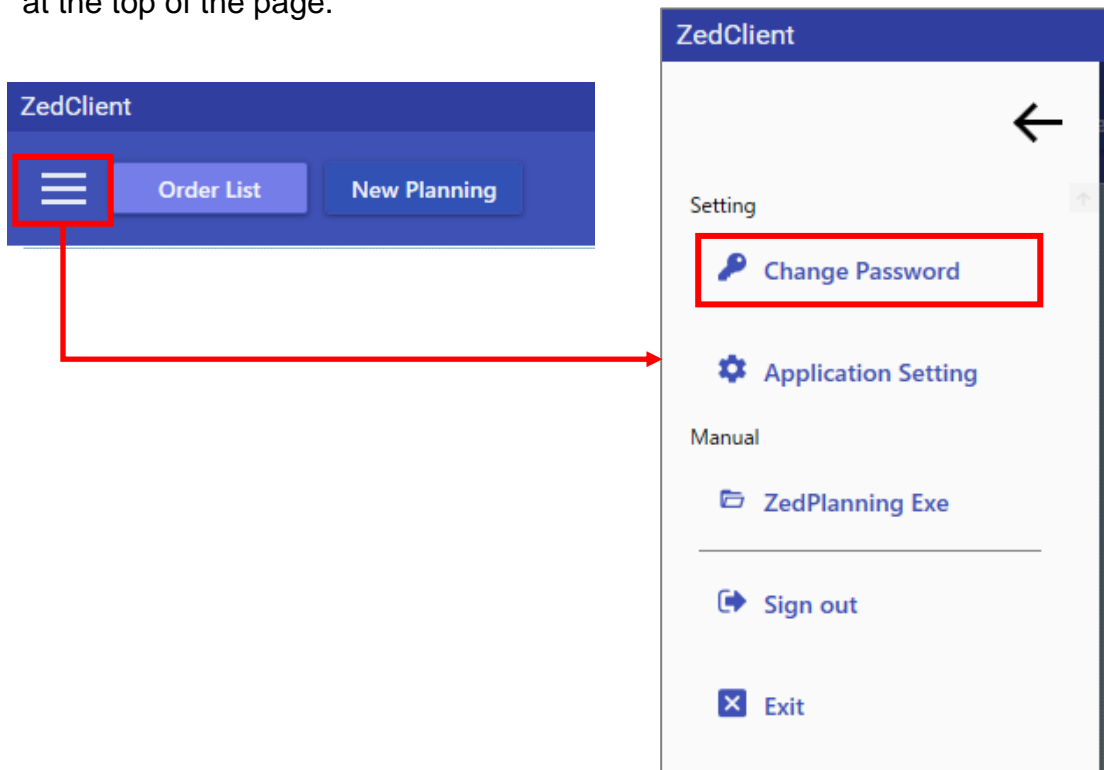
Confirm the order

No.	Item	Description
①	Service Provider	Select a service provider from the pull-down menu.
②	Delivery Due Date	Request a post-op. planning due date.
③	Affected Side	Select an affected side for post-op. planning.
④	Specify Implant	Specify an implant brand and size used for the surgery.
⑤	Coordinate System	Select a coordinate system used for pre-op. planning.
⑥	Remark/Request	Put your comments here, if any.

※The order procedure is the same as Pre-Op. Planning.

11. Password Change

① To change the password provided by LEXI, click **[Setting] > [Change Password]** at the top of the page.



② Input the current password and new password, and click **[Update]**.

The image shows a 'Change Password' dialog box with a blue title bar and standard window controls (minimize, maximize, close). The dialog contains three text input fields, each highlighted with a red box: 'Current password', 'New password', and 'Confirming password'. At the bottom right of the dialog is a blue button labeled 'Update'.

12. Various settings

By clicking **[Preferences]** from **[Order list]**, you can change the default setting of order preference information such as Implant manufacturers, components, coordinate systems, service providers, etc...

The screenshot displays the ZedClient 'Preference Information' settings page. The left sidebar shows the 'Preferences' menu item highlighted. The main content area is titled 'Preference Information' and includes tabs for 'Hip', 'Knee', and 'Shoulder'. The 'Hip' tab is active, showing the 'Select Implant' section with three rows for selecting manufacturers and series for Stem and Cup components. Below this is the 'Coordinate System' section with dropdowns for Pelvis (Anatomical Coordinate) and Femur (ISB Coordinate). To the right is the 'Cup Installation Standard' section with a dropdown for Pelvic Plane (Functional Pelvic Plane). At the bottom is the 'Select Default Manufacturer & Sales Rep' section with dropdowns for Order to Manufacturer (TestForAustralia) and Sales rep. (IAus_Sales01). A 'Save' button is located at the bottom right of the form.

Select Implant			
Manufacturer		Series	
1	Select	Stem	Select
		Cup	Select
2	Select	Stem	Select
		Cup	Select
3	Select	Stem	Select
		Cup	Select

Coordinate System	
Pelvis	Anatomical Coordinate
Femur	ISB Coordinate

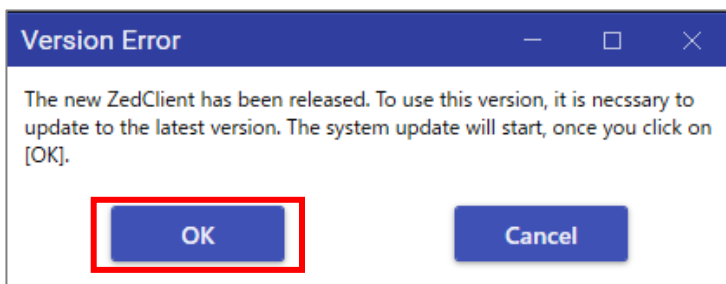
Cup Installation Standard	
Pelvic Plane	Functional Pelvic Plane

Select Default Manufacturer & Sales Rep	
Order to	
Manufacturer	TestForAustralia
Sales rep.	IAus_Sales01

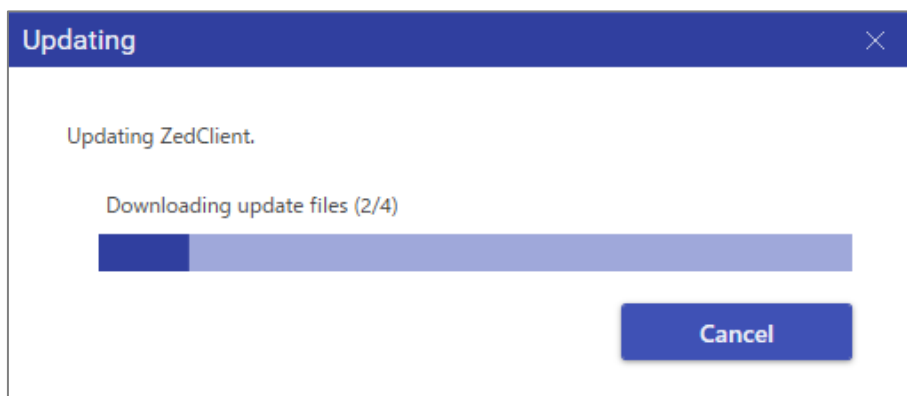
13. How to update ZedClient

① Once the new version of ZedClient is released by LEXI, the pop-up message updating it to the new one will be shown on your screen.

Click **[OK]**, then the update will start up.



② In the middle of updating...



③ Once the pop-up message saying "Completed" is shown, click **[Close]**, then the updated application will start up automatically.



! This planning service may be updated in the future for bug fix and security update as necessary. Please use the latest version of software by following the steps outlined above.

14. Contact information



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URL: <http://www.lexi.co.jp/en/>

2022-10-04 Ver.