

## Procedure: Multi Unit Abutment Library

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'\*' Marked is altered process from the previous crown design

# 1. Project: Information Description

Project

NewLoadSaveDuplicate

Type in the patient name or select an existing patient.

Date2019-04-30 오후 1:19:37Case ID

Client00001Default...

NameMulti\_Unit\_Abutment...

Technician...

Type notes here...

Options

Material configuration (local): Default

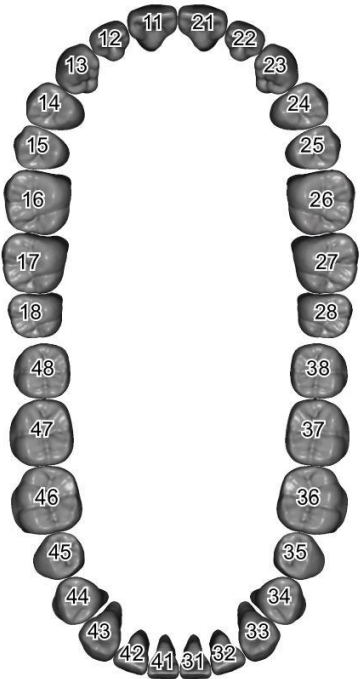
Settings...

About...

Project not yet saved

Job definition

Multi-die mode



Tooth shadeA1

Scan modeOne stone model only

Actions

?

Scan

Design

Manufacture

Model Creator

dentalshare

Copy

Print

exocad

v2.3-6990

1. Describe patient info:  
name and clinic

# 1. Project: Information Description

**Tooth 46** Material configuration (local): Default

**Crowns/Copings**

- Anatomic crown
- Coping
- Pressed crown
- Offset coping
- Eggshell crown (Provisional)

**Pontics**

- Anatomic pontic
- Reduced pontic
- Pressed pontic
- Eggshell pontic (Provisional)

**Inlays, onlays and veneers**

- Inlay/Onlay
- Offset inlay
- Veneer

**Digital copy milling**

- Anatomic waxup
- Reduced waxup
- Pontic waxup

**Primary units**

- Bar pillar
- Bar segment
- Attachment
- Telescopic crown

**Appliances & Removables**

- Bite splint
- Bite splint (missing tooth)
- Full denture
- Partial framework

**Residual dentition**

- Antagonist
- Adjacent tooth
- Missing tooth

**Material**

5-Axis / Laser / 3D Print

- Zirconia
- Zirconia Multilayer
- NP Metal
- NP Metal (Laser)
- Wax
- Acrylic/PMMA
- Composite
- Hybrid Ceramic
- Lithium Disilicate
- Glass Ceramic
- Feldspar
- 3D Print

**Options & parameters**

1

Implant-based? Screw-Retained

Scan a pre-op model? No

Scan gingiva separately? No

Design virtual gingiva? Optional (Wizard mode)

Minimal thickness 0.4 mm

Gap width of cement 0.08 mm

ADVANCED PARAMETERS

Material shade ---

Reset values to material defaults

Clear

OK

1. Select teeth to work and screw abutment as 'Screw-Retained'.

# 1. Project: Information Description

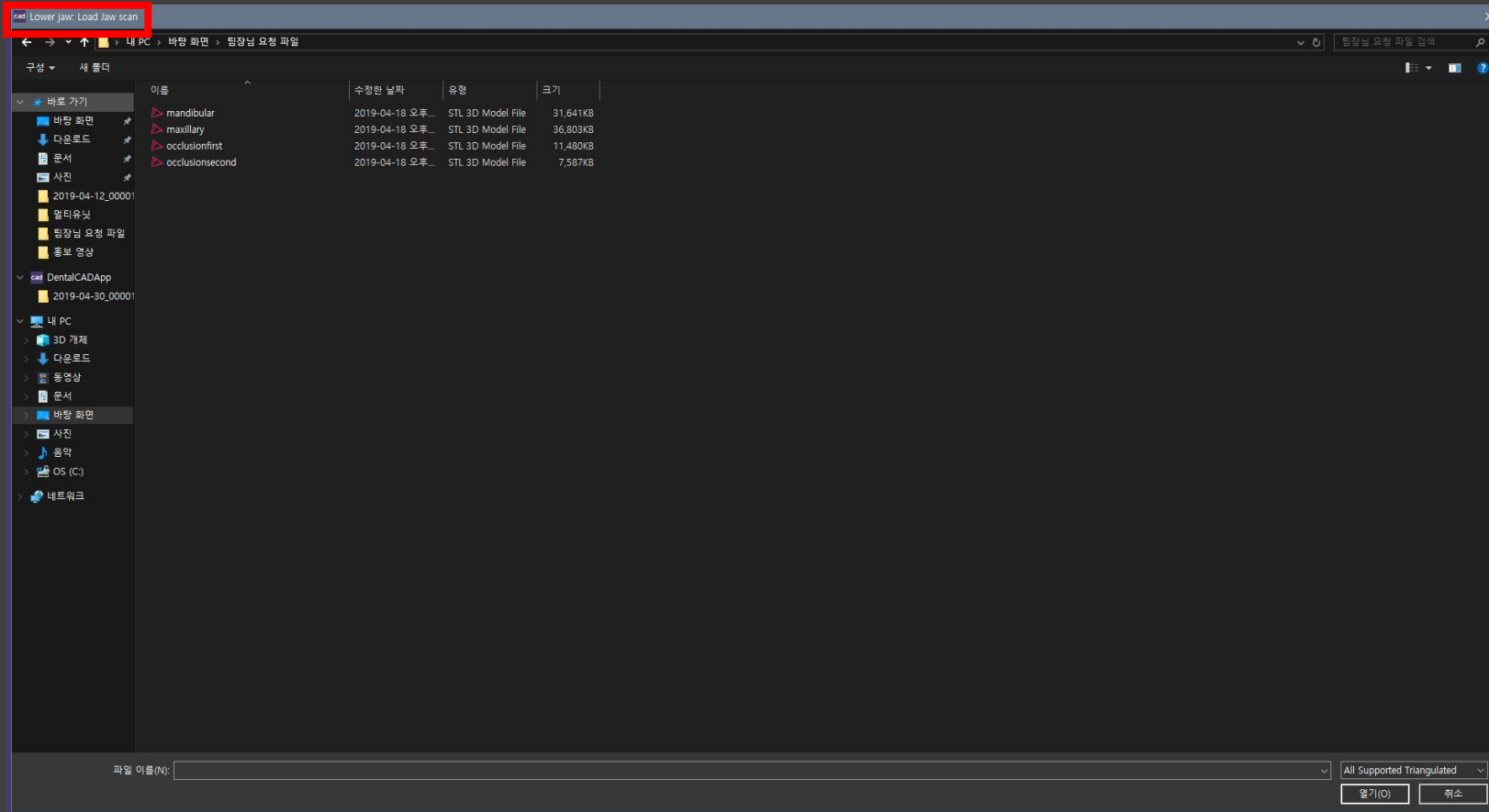
The screenshot displays the exocad software interface with three main panels:

- Project Panel (Left):** Contains project information such as Date (2019-04-30 오후 1:19:37), Client (00001), Name (Multi\_Unit\_Abutment), and Technician. A red box labeled '2' highlights the 'Save' button in the top toolbar.
- Job definition Panel (Center):** Shows a 3D model of a dental arch with teeth numbered 11 through 48. A legend indicates:
  - Anatomic crown (Purple)
  - Adjacent tooth (Yellow)
  - Antagonist (Orange) A red box labeled '1' highlights the 'Scan mode' dropdown menu in the 'Tooth shade' section, which is currently set to 'Digital impression scan'.
- Actions Panel (Right):** Lists various actions: Scan, Design, Manufacture, Model Creator, dentalshare, Copy, and Print. A red box labeled '3' highlights the 'Design' button.

The exocad logo and version number (v2.3-8990) are visible at the bottom right of the interface.

1. Select scan type (oral scan vs. model scan) in 'Scan mode'
2. Save your project.
3. Click 'Design'.

## 2. Load Scan Data



Scan file types are as following:

1. Scan file: Lower jaw

cad Lower jaw: Load Jaw scan

2. Scan file: Scanbody

cad Lower jaw: Load Scan marker (scan)

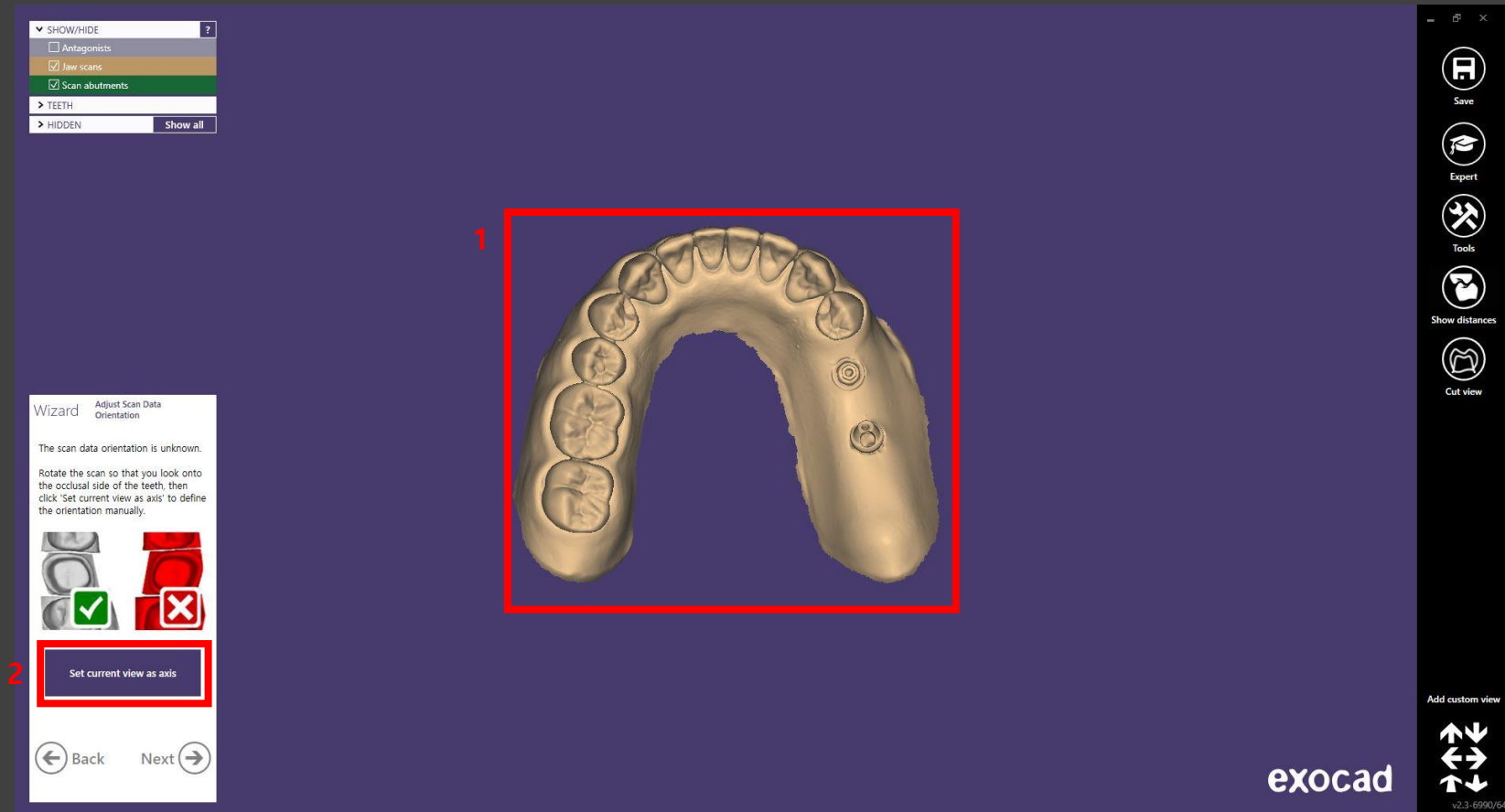
(scanned after multi-unit abutment installed)

3. Scan file: Upper jaw

cad Upper jaw: Load Antagonist

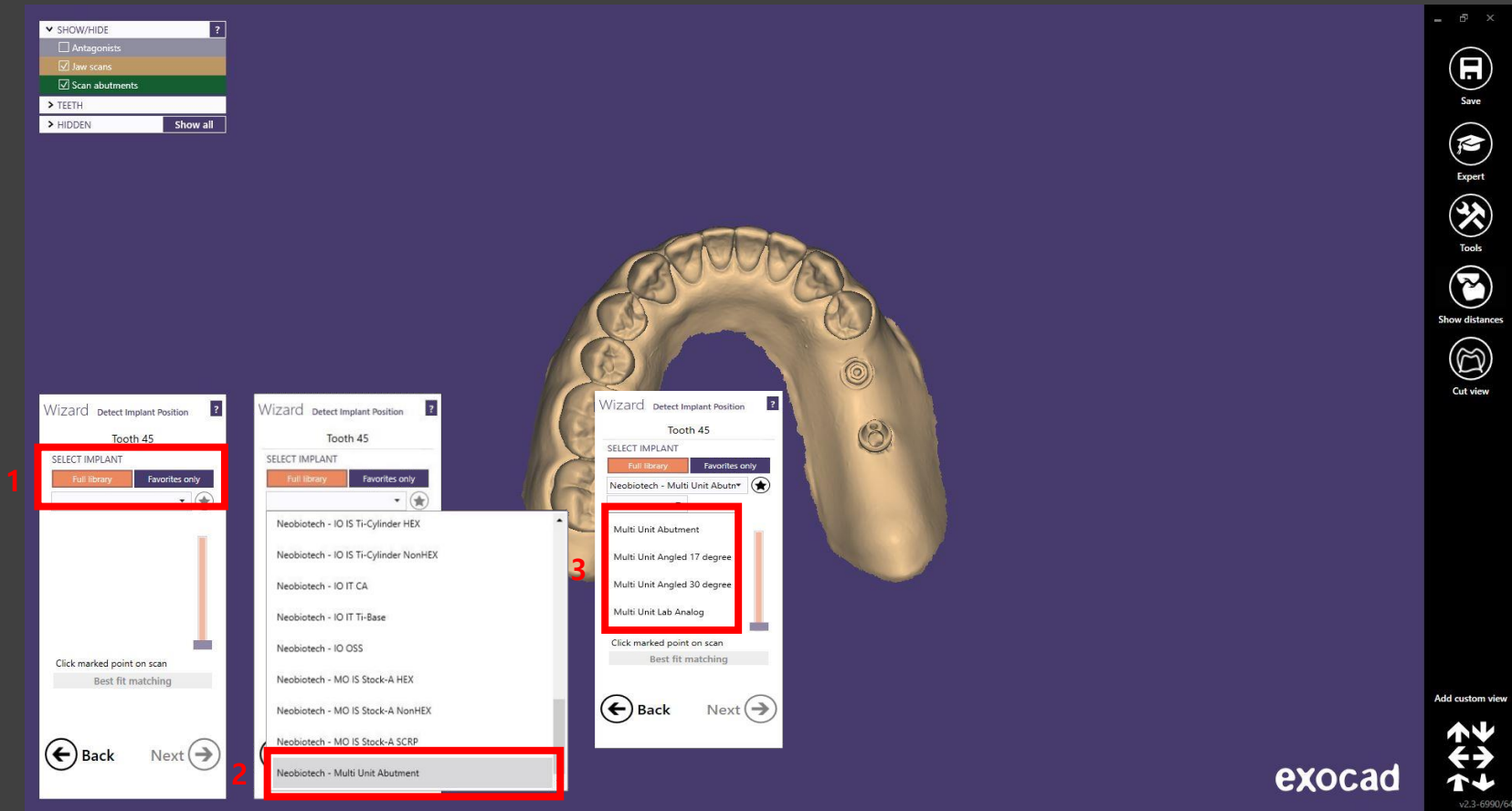


### 3. Adjust Axis of Scan Data



1. Adjust occlusal side appeared on screen.
2. Click 'Set current view as axis' to adjust axis of scan data.

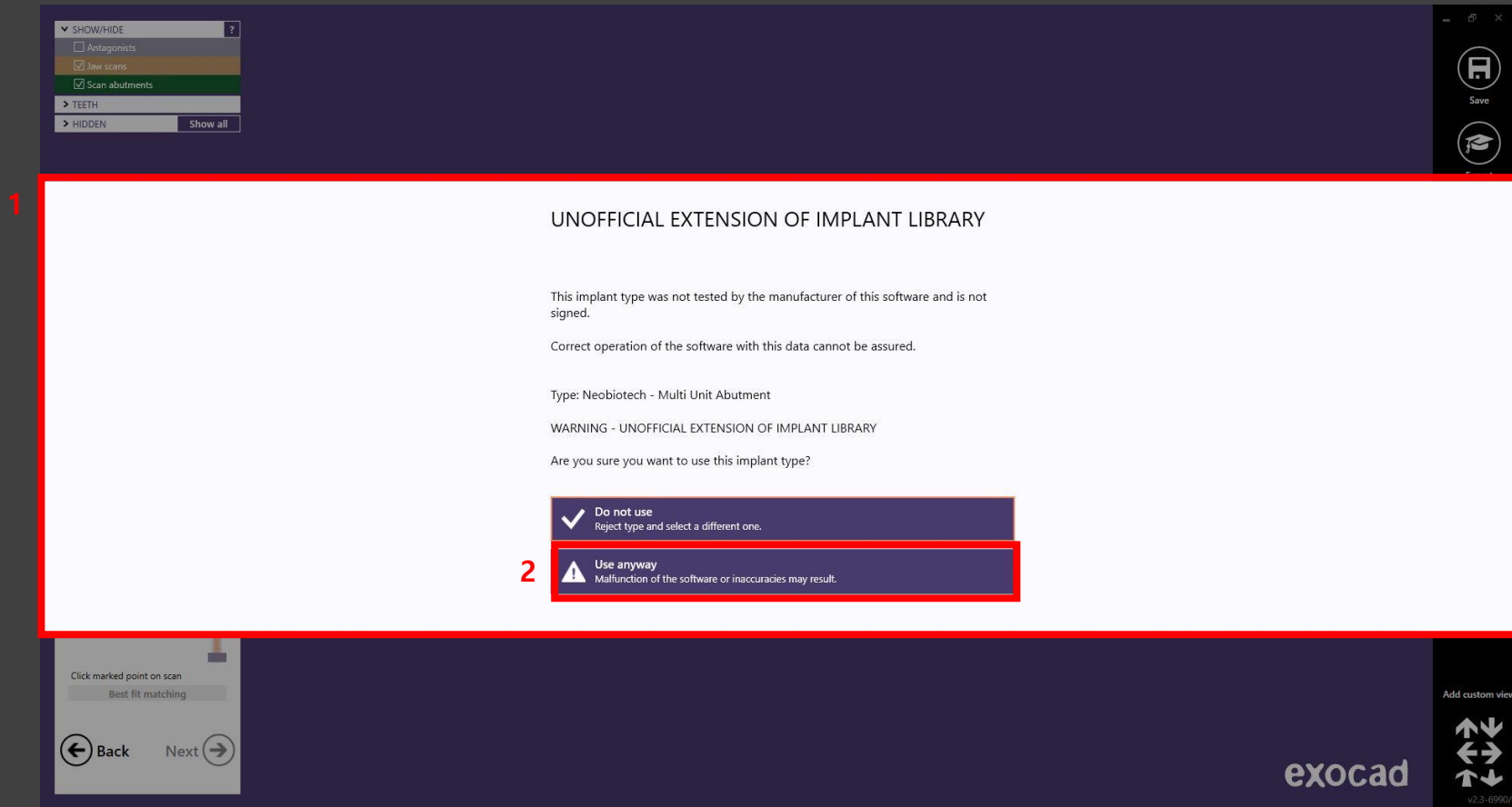
## 4. Select Library and Match



1. Select implant library.
2. Select 'Neobiotech – Multi Unit Abutment'.
3. Select angle for the multi unit abutment, within 0, 17, 30 degrees, and lab analog).



## 4. Select Library and Match

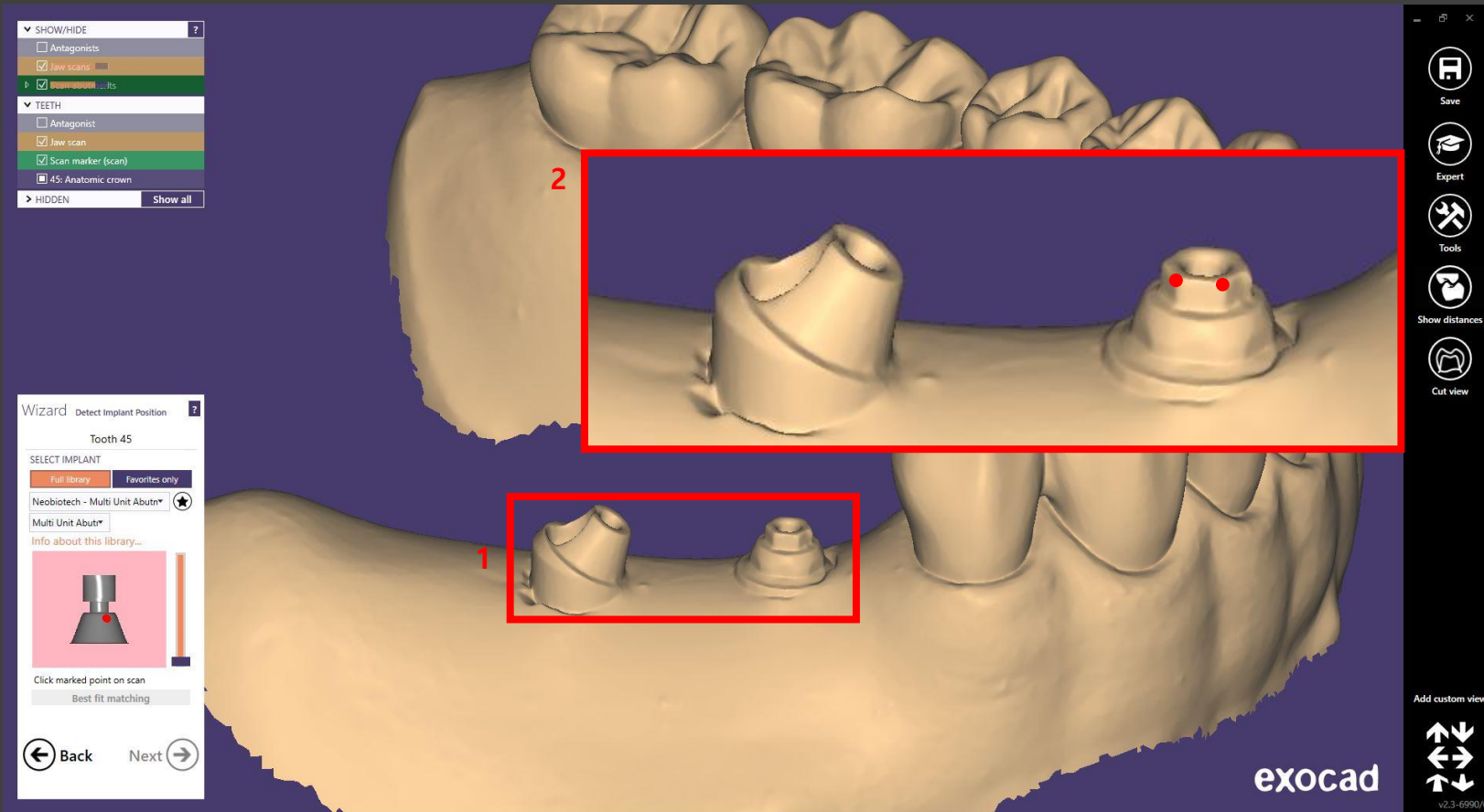


1. Selecting library will lead to the new window.

2. Click 'Use anyway'.

✘ Selecting 'Do not use' will not activate the library.

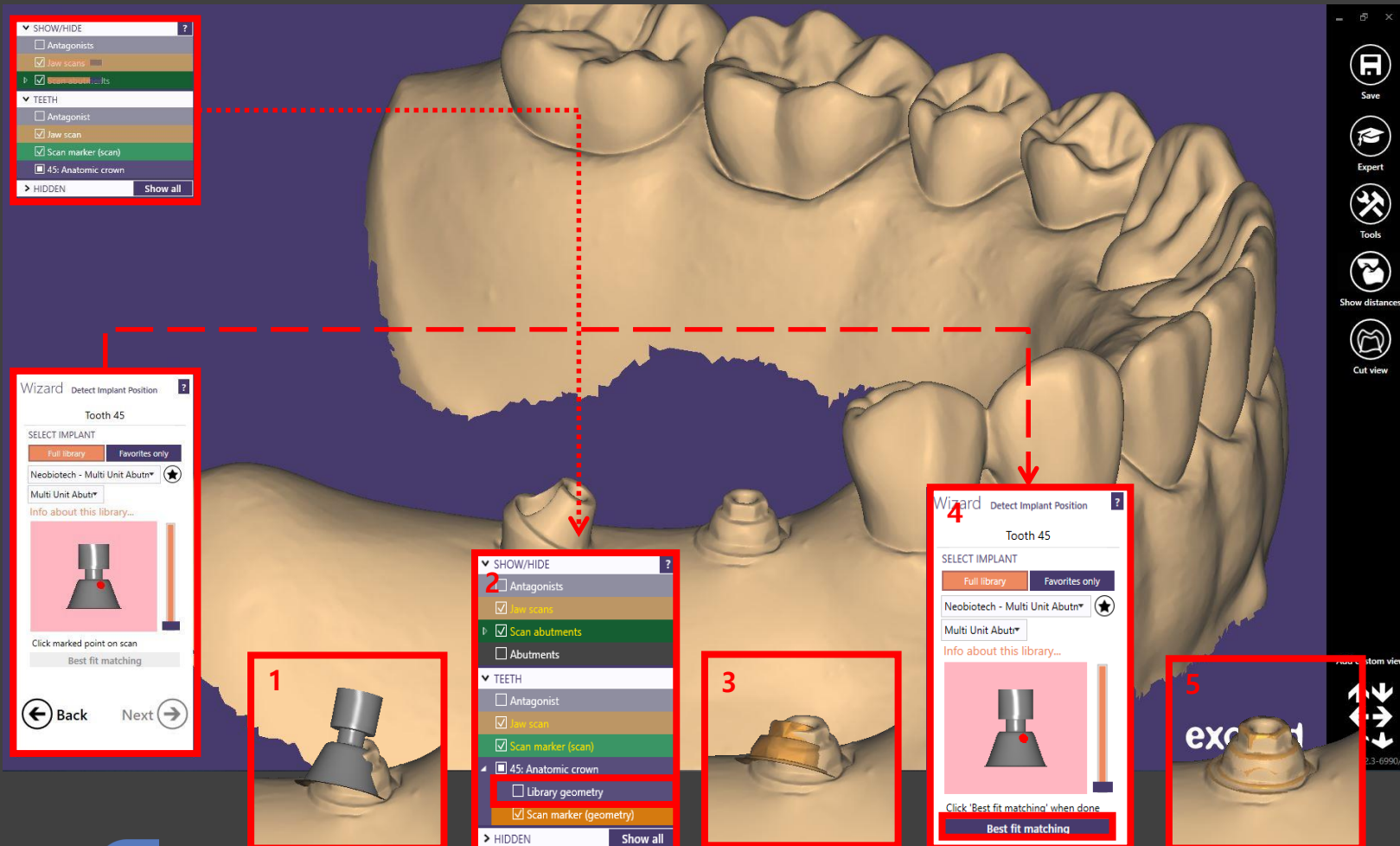
## 4. Select Library and Match



### Library Matching

1, 2.  
Click and mark featured  
parts of abutment

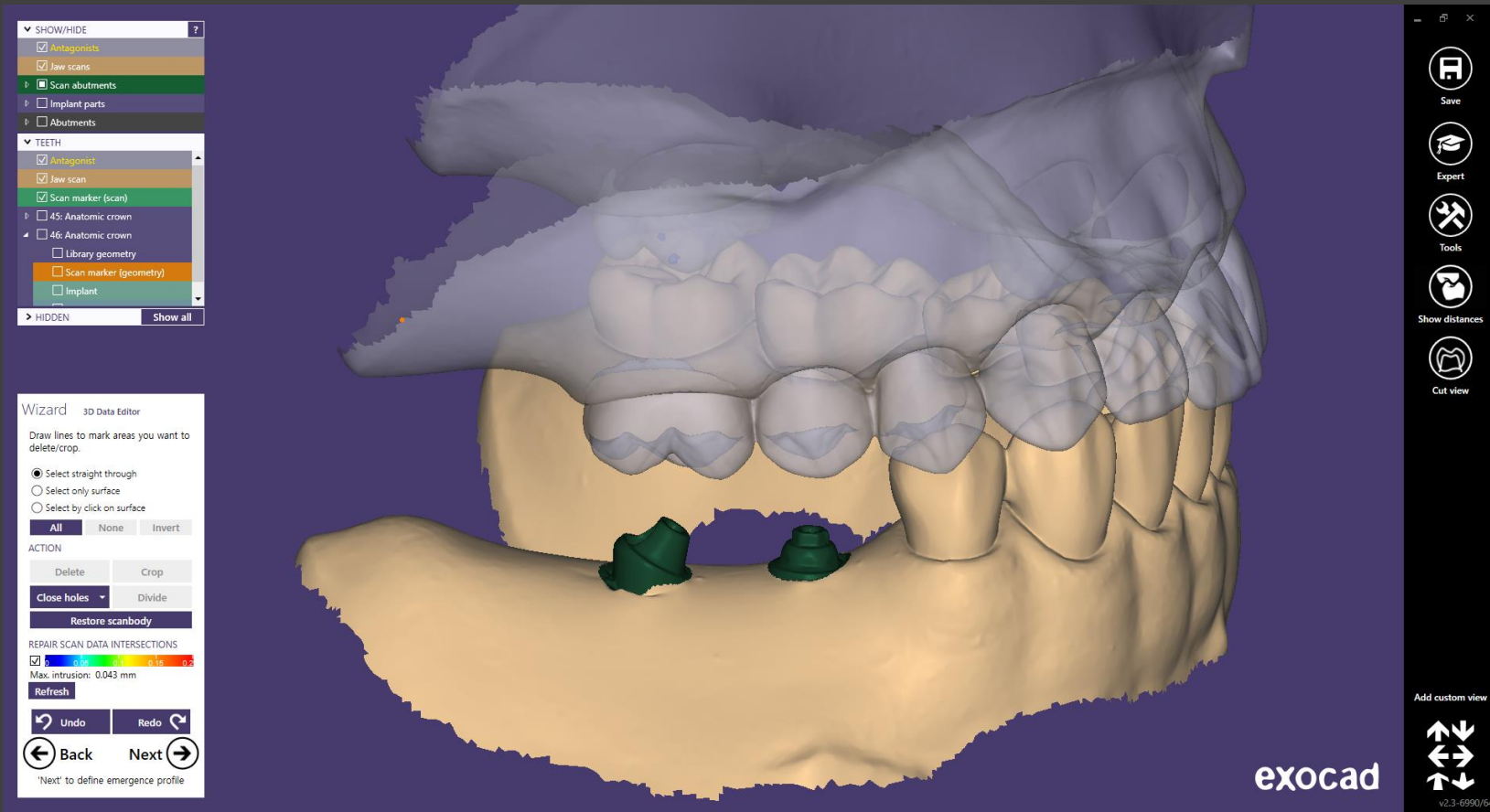
## 4. Select Library and Match



1, 2, 3.  
After click, at 'SHOW/HIDE' box, click to move to 'TEETH' and teeth on project, and deactivate 'Library geometry'.

4, 5.  
In 'Detect Implant Position' window, click 'Best fit matching'.

## 5. Modify Mesh Data




### 1. Edit mesh data

## 5. Modify Mesh Data




### Mesh data Modification

#### 1. Delete intrusions

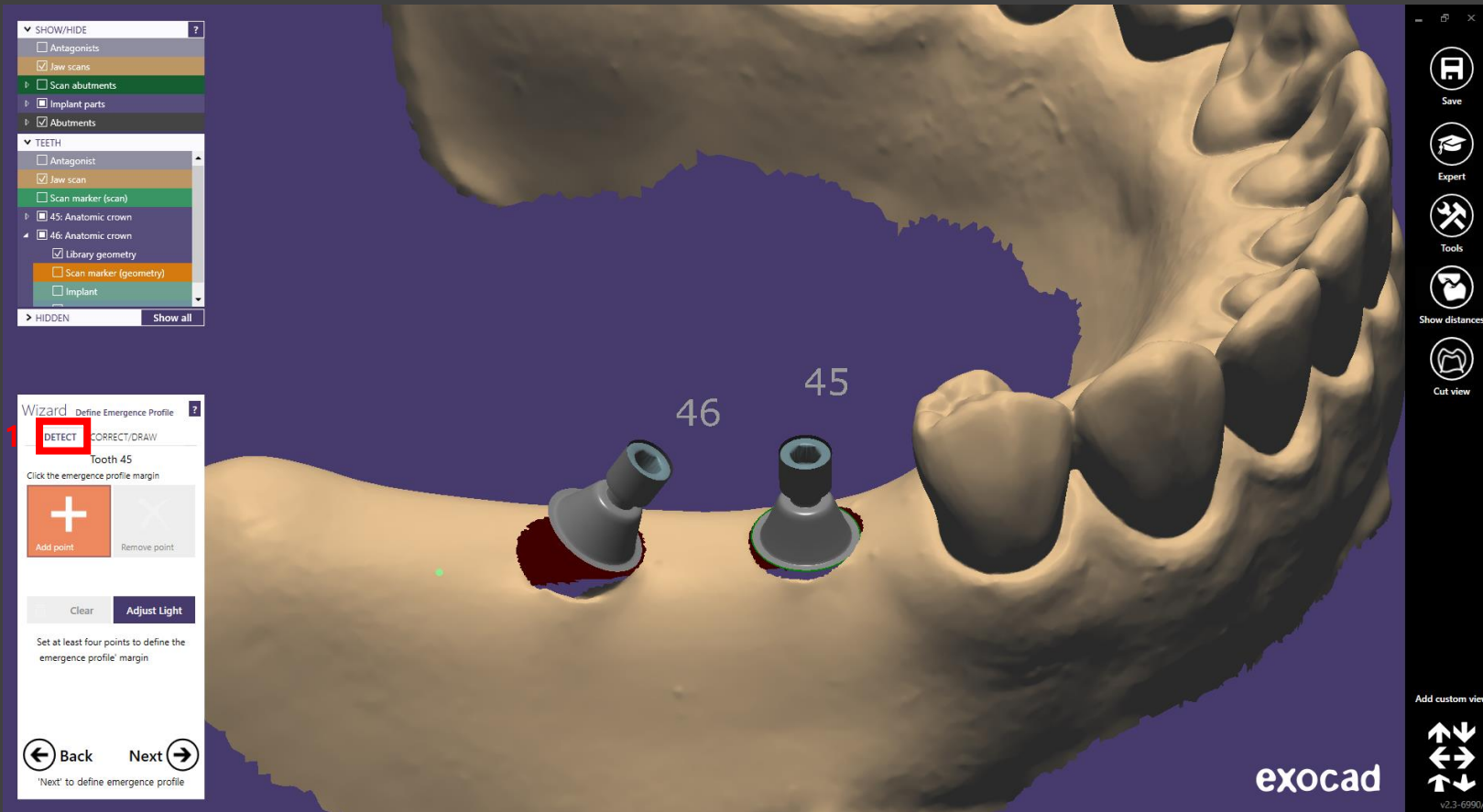
 **Fix by cutting away intrusions (recommended)**  
The scan data will be modified to resolve the situation

#### 2. No modification

 **Don't modify the scan data**  
If you start the articulator, you will be prompted again



## 6. Adjust Margin



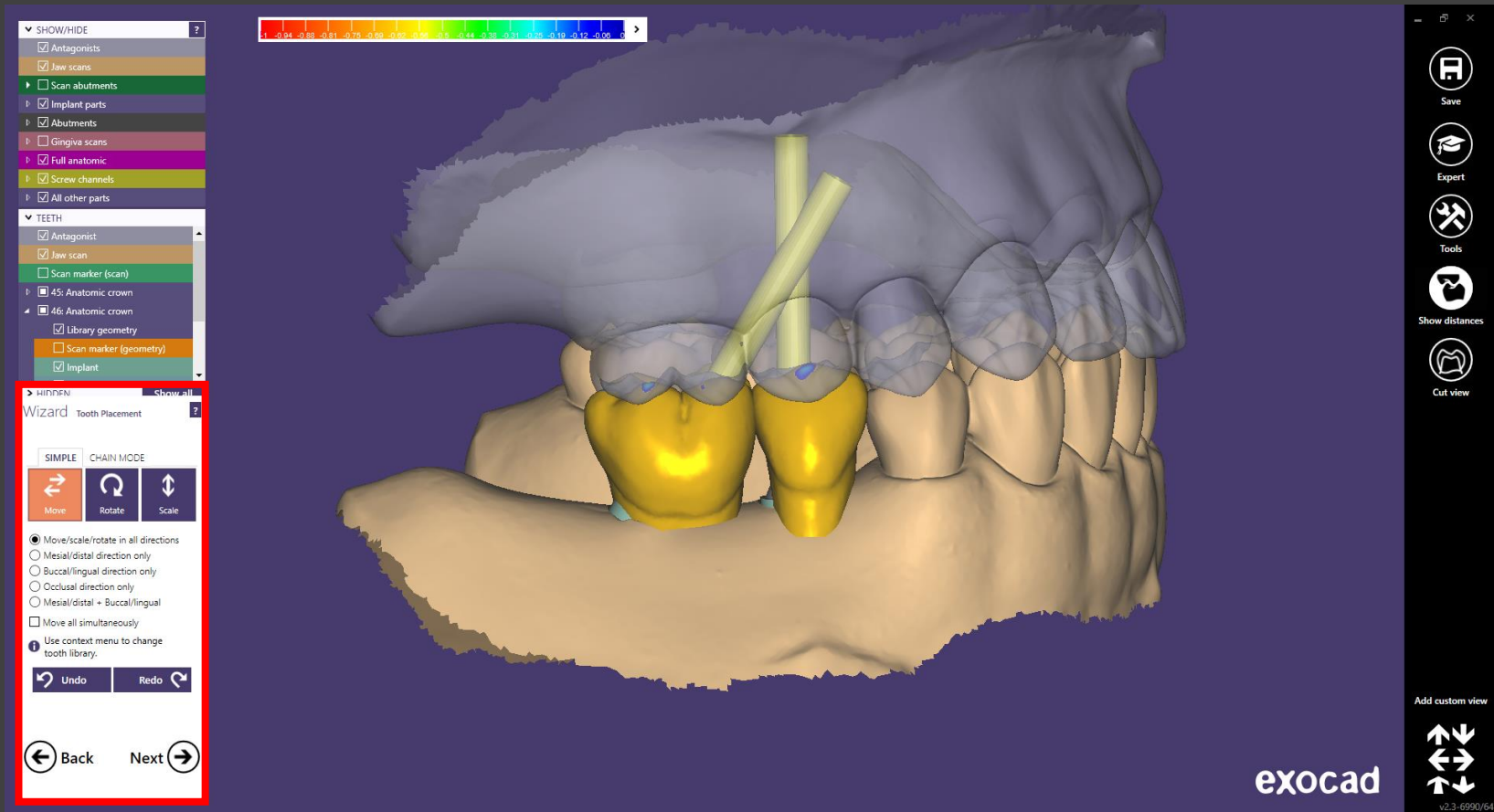
### Margin Modification

1. Selecting 'Detect' tab will automatically setup margin.

✂ Additional adjustment not needed

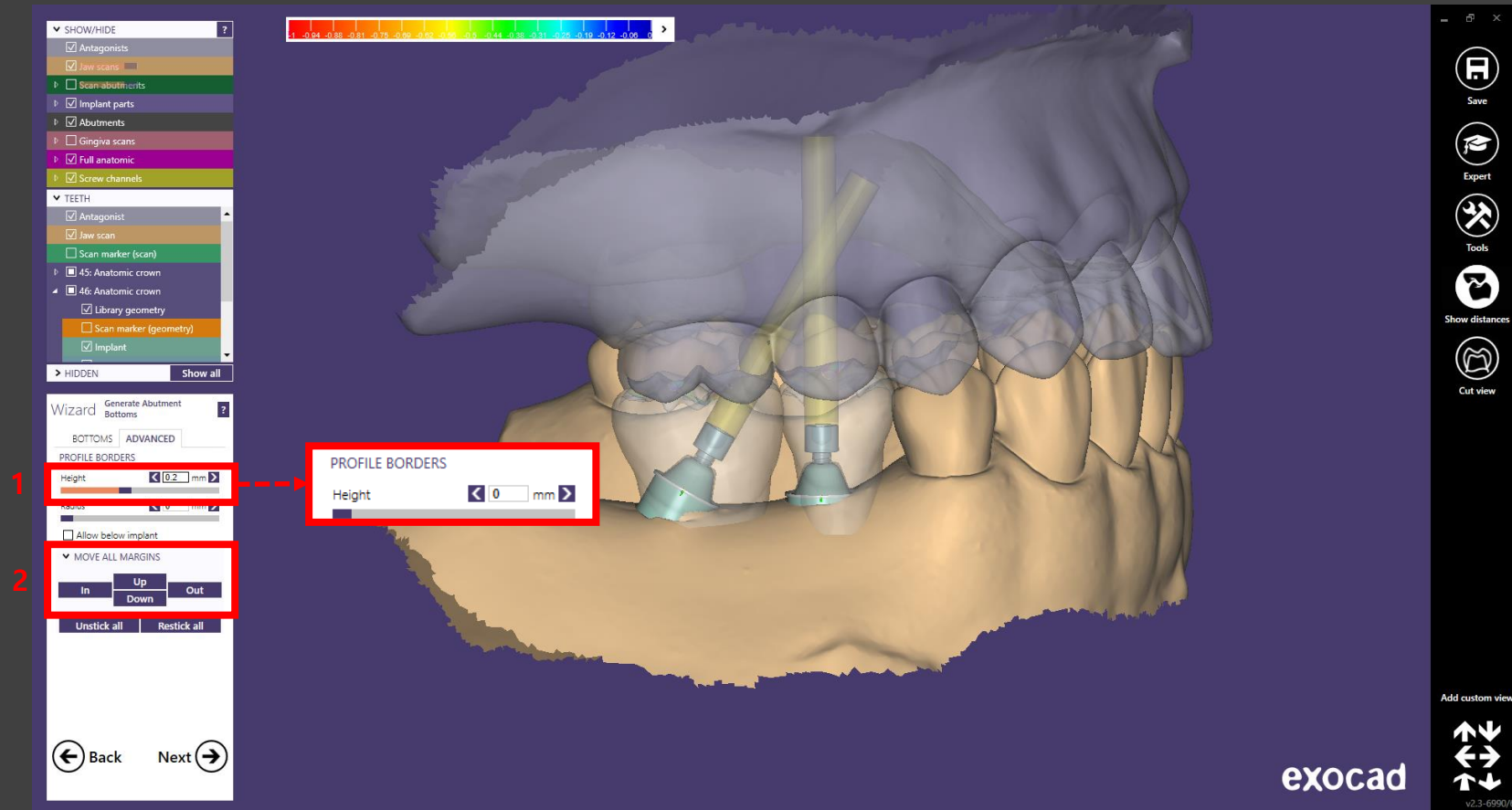


## 7. Tooth Placement



## Tooth Placement

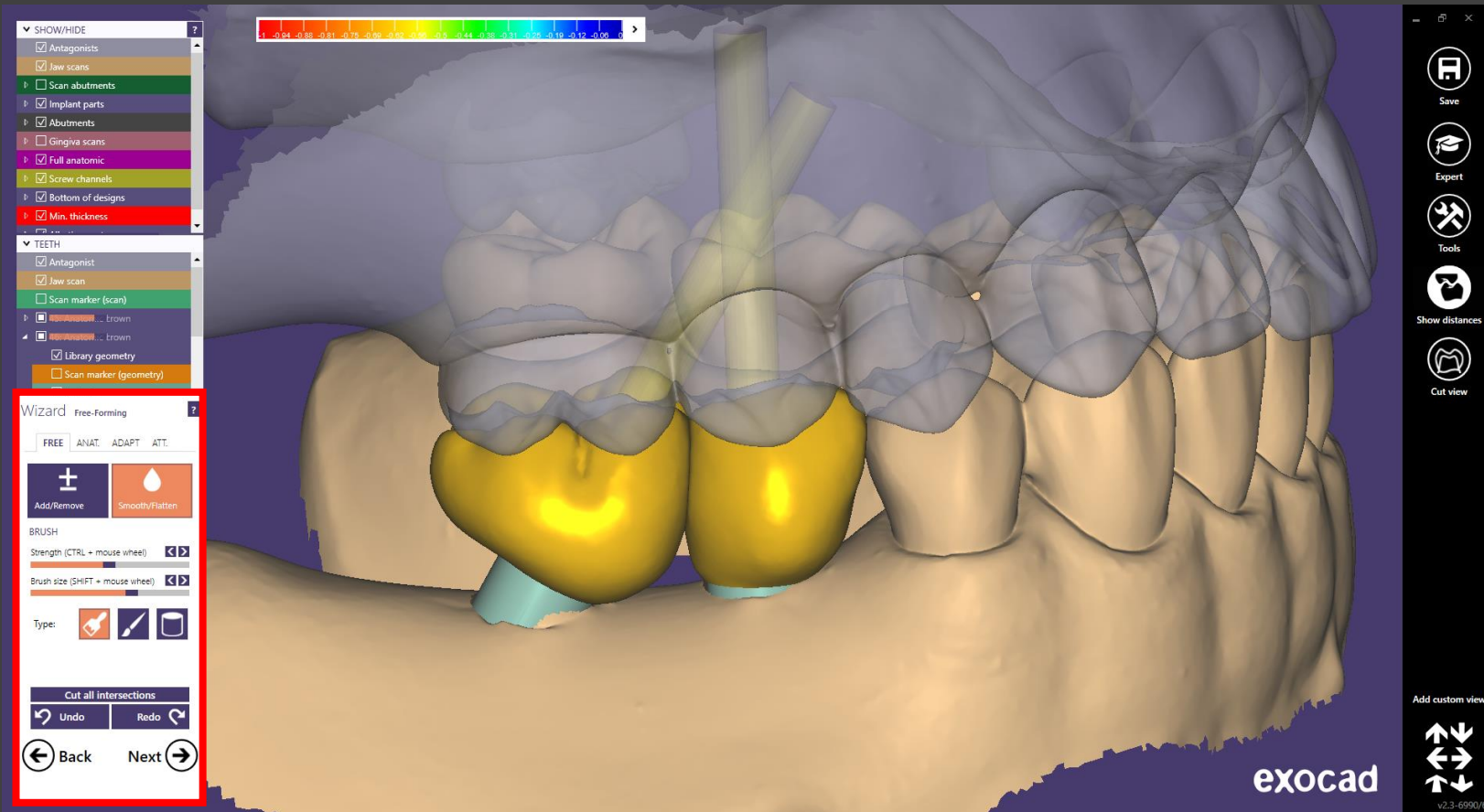
## 8. Abutment Bottom Design



### Abutment Bottom Design

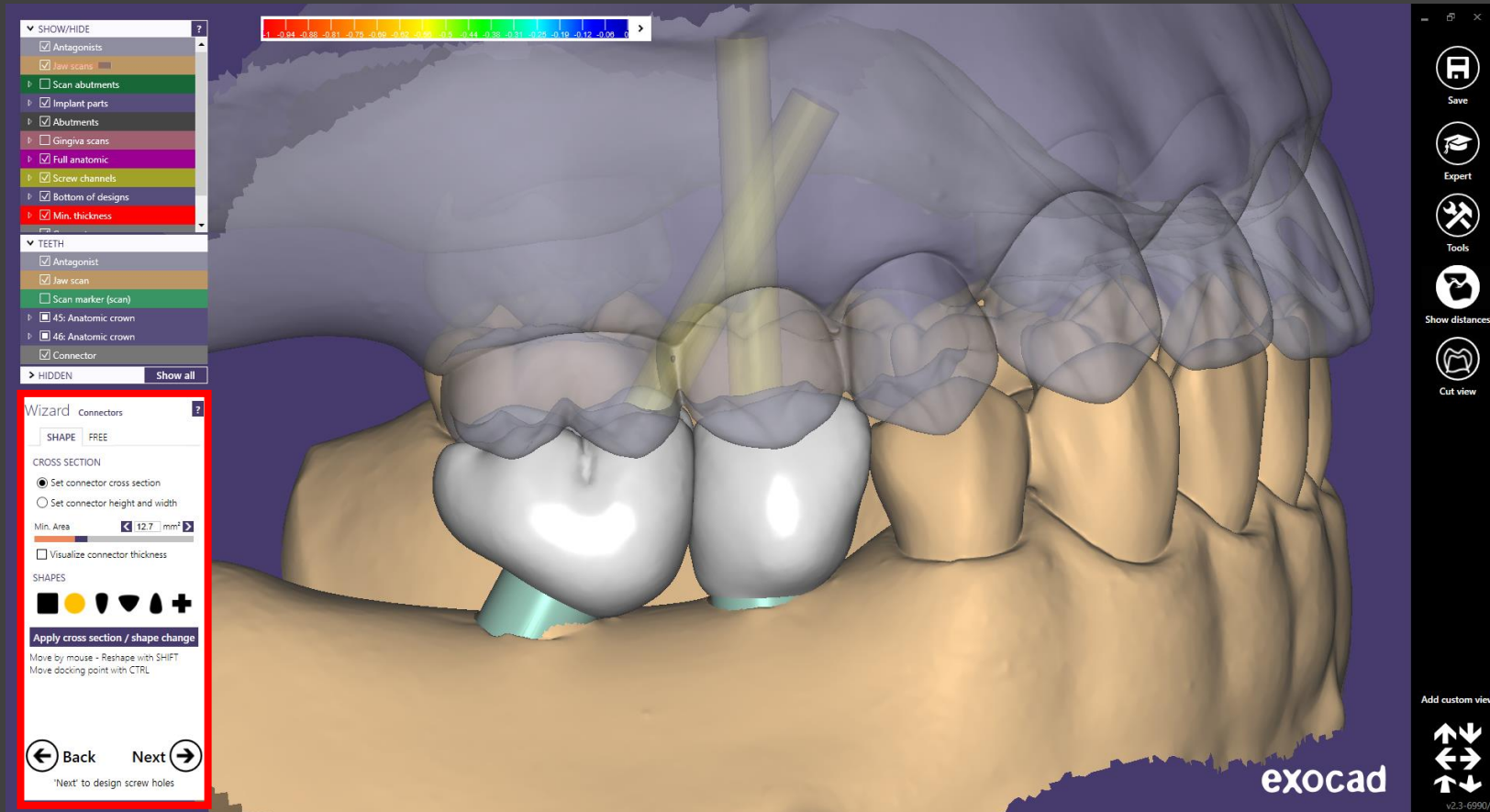
1. Adjust Height as '0mm'.
2. Use 'Down' & 'In' button of 'MOVE ALL MARGINS' to minimize margins.

## 9. Free Forming



Adjust teeth appearance.

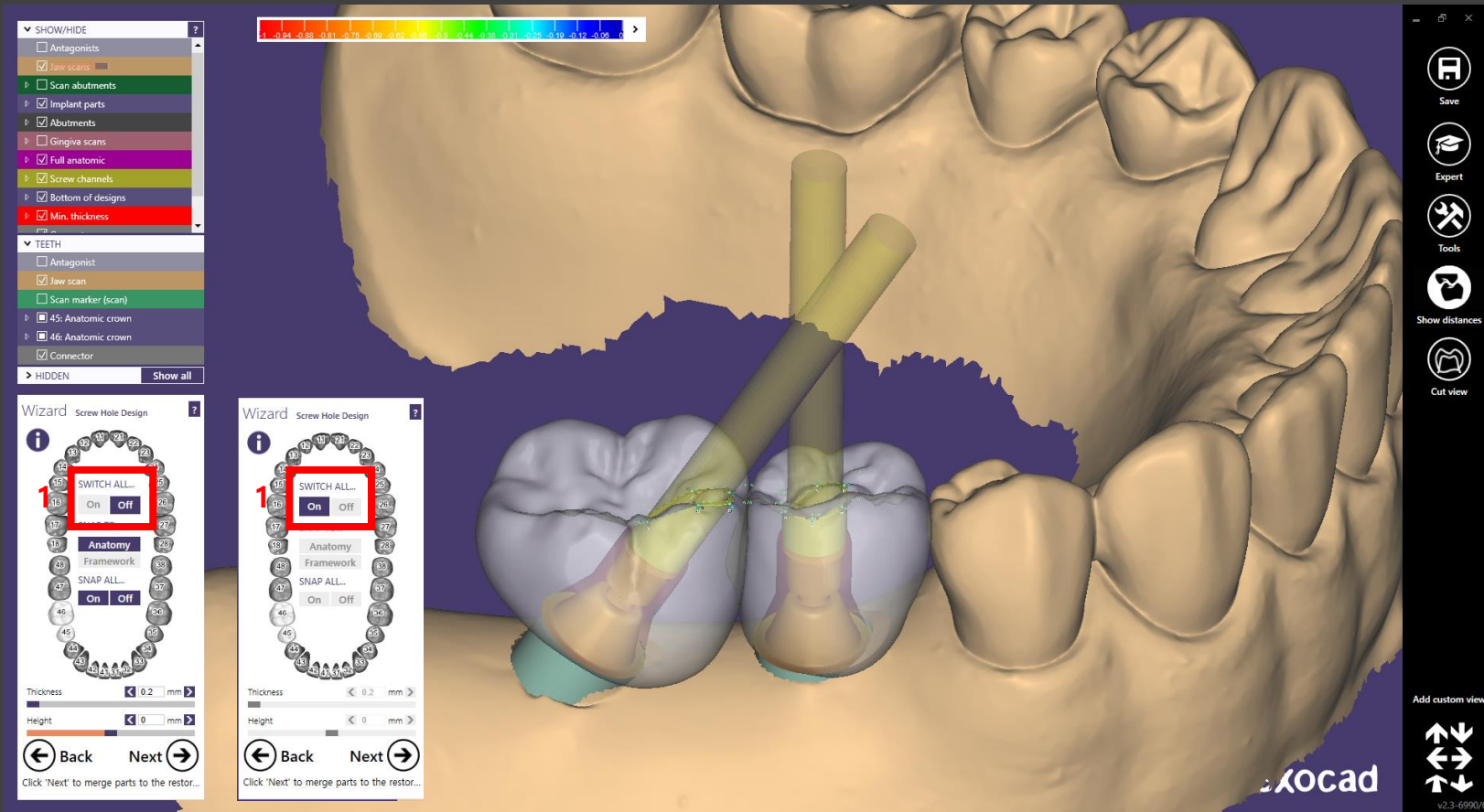
## 10. Connectors



Connection site design



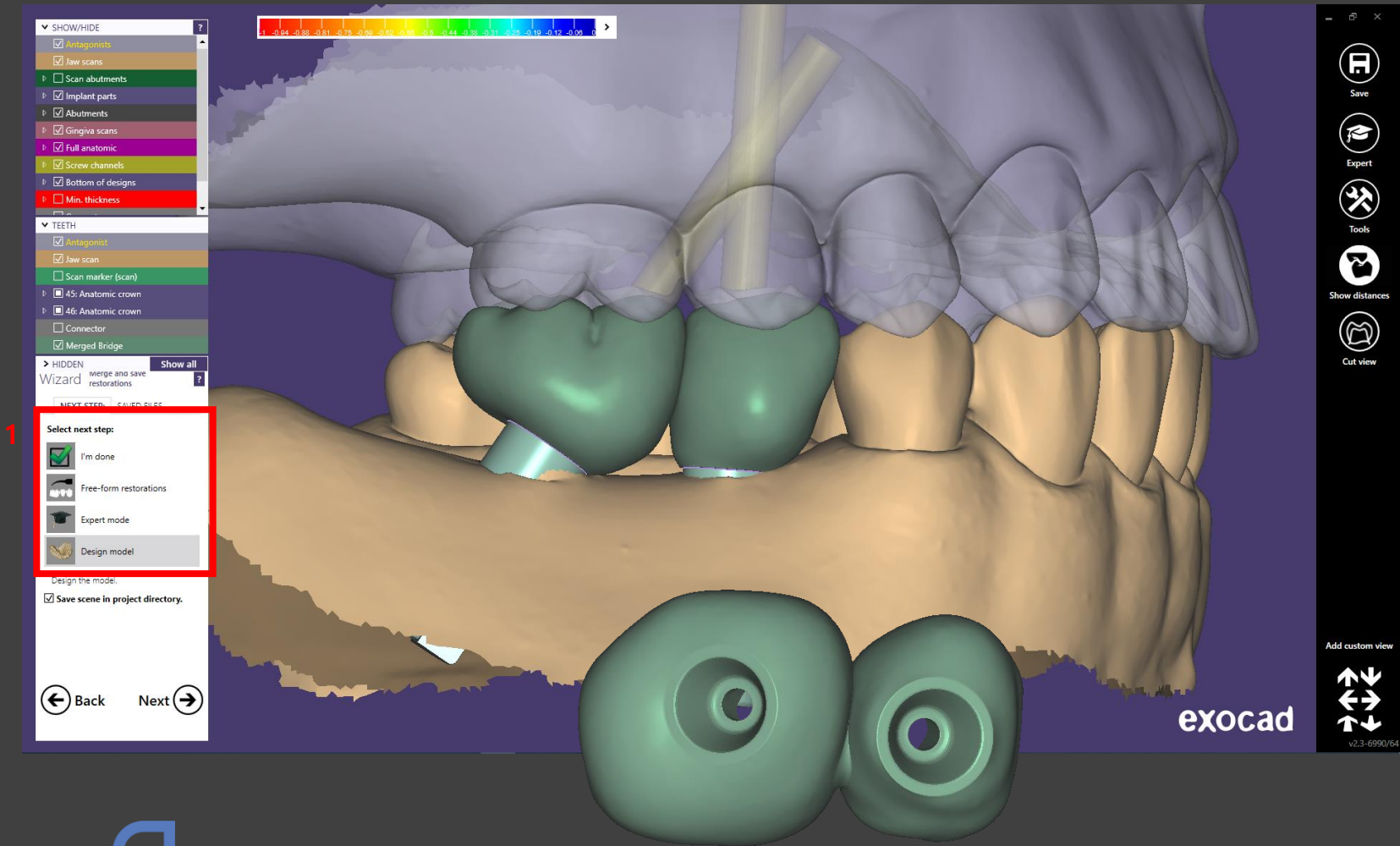
# 11. Screw Hole Design



## Screw hole design

1. Select On/Off.

## 12. Complete



### Complete

1. Incorporated data may be modified.



Thanks

# Satisfaction to Dentists