

Integration Straumann into Exocad

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Table of Contents

- 1. Customer Registration2
- 2. Implementation before starting Exocad3
 - 2.1. WorkParamsDB..... 3
 - 2.2. Straumann Library 3
- 3. Using the Straumann WorkParamsDB.....4
- 4. Straumann Portfolio5
 - 4.1. Order Creation 5
 - 4.2. CAD – Implant Selection.....6
- 5. Straumann Order Tool7
- 6. Using and Ordering Straumann Materials8
 - 6.1. Cautions and Advice.....8
 - 6.1.1. Scanner Source.....8
 - 6.1.2. Blank Size.....8
 - 6.1.3. Limitations8
 - 6.1.4. Indication and Materials.....9
 - 6.1.5. Cautions.....9
- 7. Terms and Conditions (AGB) for Straumann Products10

1. Customer Registration

Customer registration is necessary for the communication with Straumann and order administration. This ensures that all aspects of an order such as delivery documents and invoices work correctly. As a new Straumann customer, you will receive a Straumann SAP customer number by your local Straumann subsidiary. Please contact your sales representative or your local Straumann subsidiary.

For customer registration, following information is needed:

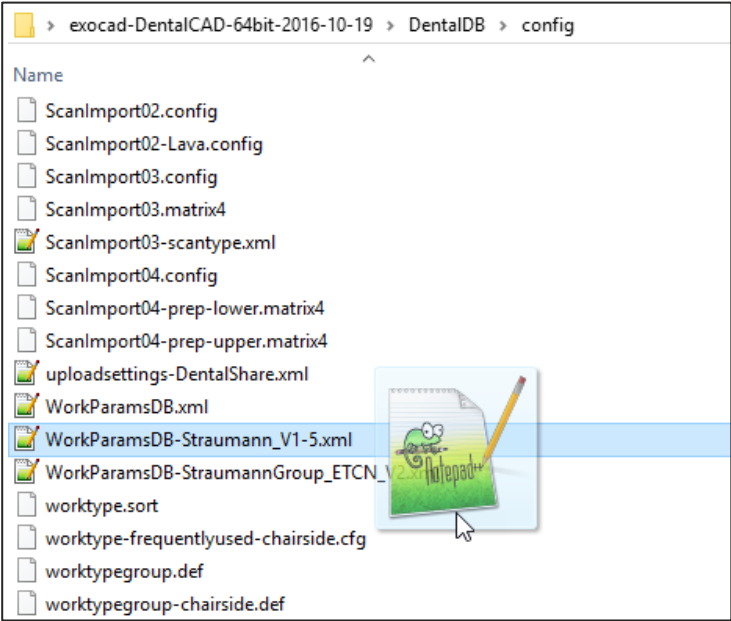
- Straumann SAP customer number
- exocad Dongle No. (only once for Straumann support)
- Name of Dental Lab and contact person
- Scanner info (used system / Distributor)

The shipping address can be different from the customer address. Both customer and shipping address must be in the same country. For consistency reasons and to guarantee seamless shipping please fill in your Dental lab address with the same format.

2. Implementation before starting Exocad

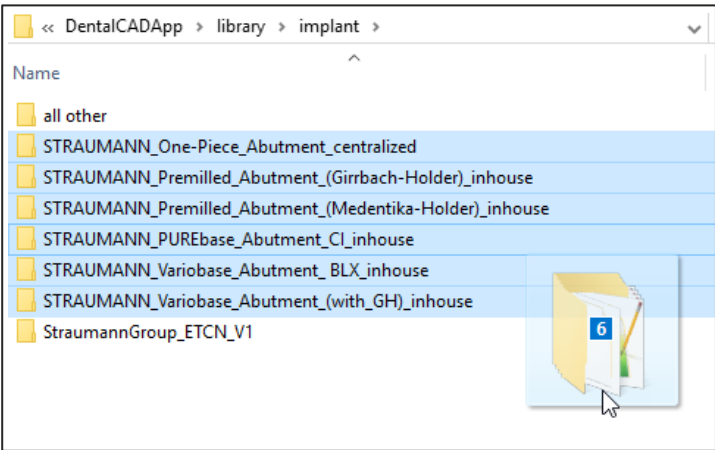
2.1. WorkParamsDB

Drag and Drop of the Straumann WorkParamsDB file “**WorkParamsDB-Straumann_V1-5.xml**” into the Configuration folder on the following path of the Exocad Software: DentalDB\config



2.2. Straumann Library

Drag and Drop of the Straumann library folders into the Configuration folder on the following path of the Exocad Software: DentalCADApp\library\implant



3. Using the Straumann WorkParamsDB

After starting the Exocad DentalDB change the material configuration to the implemented “WorkParamsDB-Straumann_V1-5” configuration by opening the “Material configuration (local)” Options (1). The window “Material configuration selection” (2) opens and the configuration can be changed.

The screenshot shows the Exocad software interface. At the top, there is a 'Project' header with buttons for 'New', 'Load', 'Save', and 'Duplicate'. Below this, a message says 'Please select a client first.' The main area contains fields for 'Date', 'Client', 'Name', 'Technician', and 'Notes'. A red box labeled '(1)' highlights the 'Options' menu, which shows 'Material configuration (local): Default'. A second red box labeled '(2)' highlights the 'Material configuration selection' dialog box. This dialog box has a title bar 'Material configuration selection' and a close button. The main title is 'Change material configuration'. Below this is a descriptive paragraph: 'The material configuration affects the choice of materials and the respective parameters (e.g. minimum thickness). You can choose a locally stored configuration or a configuration from one of your dentalshare contacts (recommended if you wish to send out files for production)'. There are two sections: 'MATERIAL CONFIGURATION (LOCAL):' with a list box containing 'Default', 'StraumannGroup_ETCN_V2', and 'Straumann_V1-5' (the last one is selected with a checkmark); and 'MATERIAL CONFIGURATION (DENTALSHARE):' with fields for 'User name' (with '@exocad' placeholder), 'Password', and a checked 'Sign me in automatically' checkbox. There is a 'Sign in' button, a 'Forgot your password?' link, and a section for 'Do not have a dentalshare account yet?' with 'create new account' and 'or find out more' links. At the bottom of the dialog are 'Manage account...', 'Make default' checkbox, 'OK', and 'Cancel' buttons.

4. Straumann Portfolio

4.1. Order Creation

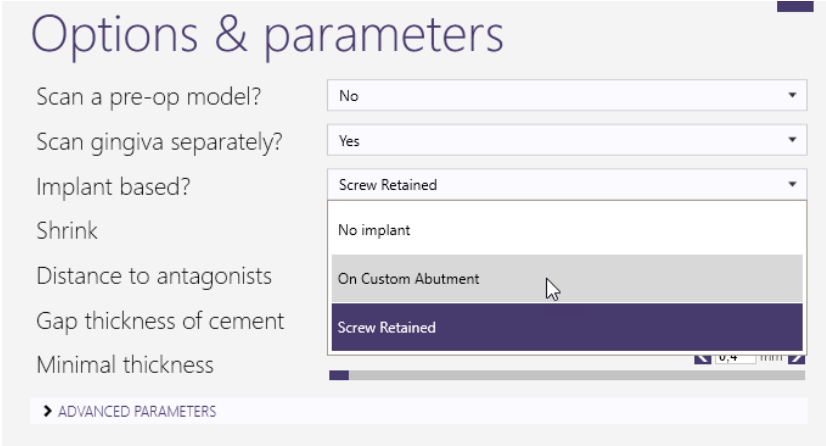
For products with the anatomical shape of crowns, the materials for Straumann tooth borne restorations are available.

The screenshot shows the 'Tooth 16' configuration window. The 'Material configuration (local): Straumann_V1-5' is displayed. Under 'Crowns/Copings', 'Anatomic crown' is selected with a checkmark. Other options include 'Coping' and 'Offset coping'. Under 'Pontics', 'Anatomic pontic' and 'Reduced pontic' are available. Under 'Residual dentition', 'Antagonist', 'Adjacent tooth', and 'Missing tooth' are available. On the right, the 'Material' dropdown is set to '5-Axis / Laser / 3D Print'. The material list includes: Coron[®], 3M[™] ESPE[™] Lava[™] Plus Zirconia, Polycon[®] AE, Polycon[®] Cast, Ticon[®], and Zerion[®] LT.

For products with the anatomical shape of copings, the materials for Straumann Abutment restorations are available.

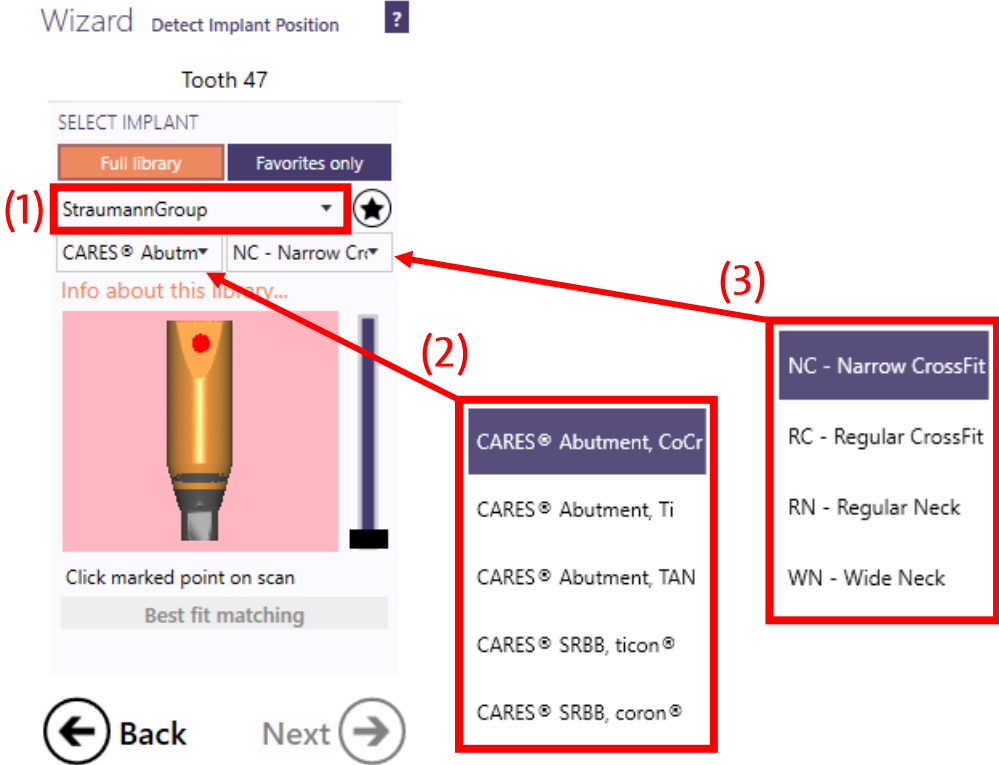
The screenshot shows the 'Tooth 16' configuration window. The 'Material configuration (local): Straumann_V1-5' is displayed. Under 'Crowns/Copings', 'Coping' is selected with a checkmark. Other options include 'Anatomic crown' and 'Offset coping'. Under 'Pontics', 'Anatomic pontic' and 'Reduced pontic' are available. Under 'Residual dentition', 'Antagonist', 'Adjacent tooth', and 'Missing tooth' are available. On the right, the 'Material' dropdown is set to '5-Axis / Laser / 3D Print'. The material list includes: Coron[®], 3M[™] ESPE[™] Lava[™] Plus Zirconia, Polycon[®] AE, Polycon[®] Cast, Abutment, TAN, Ticon[®], Zerion[®] LT, and Abutment, Zirconia.

There is the option to choose between the Screw Retained and the On Custom Abutment variation for implant based restorations.



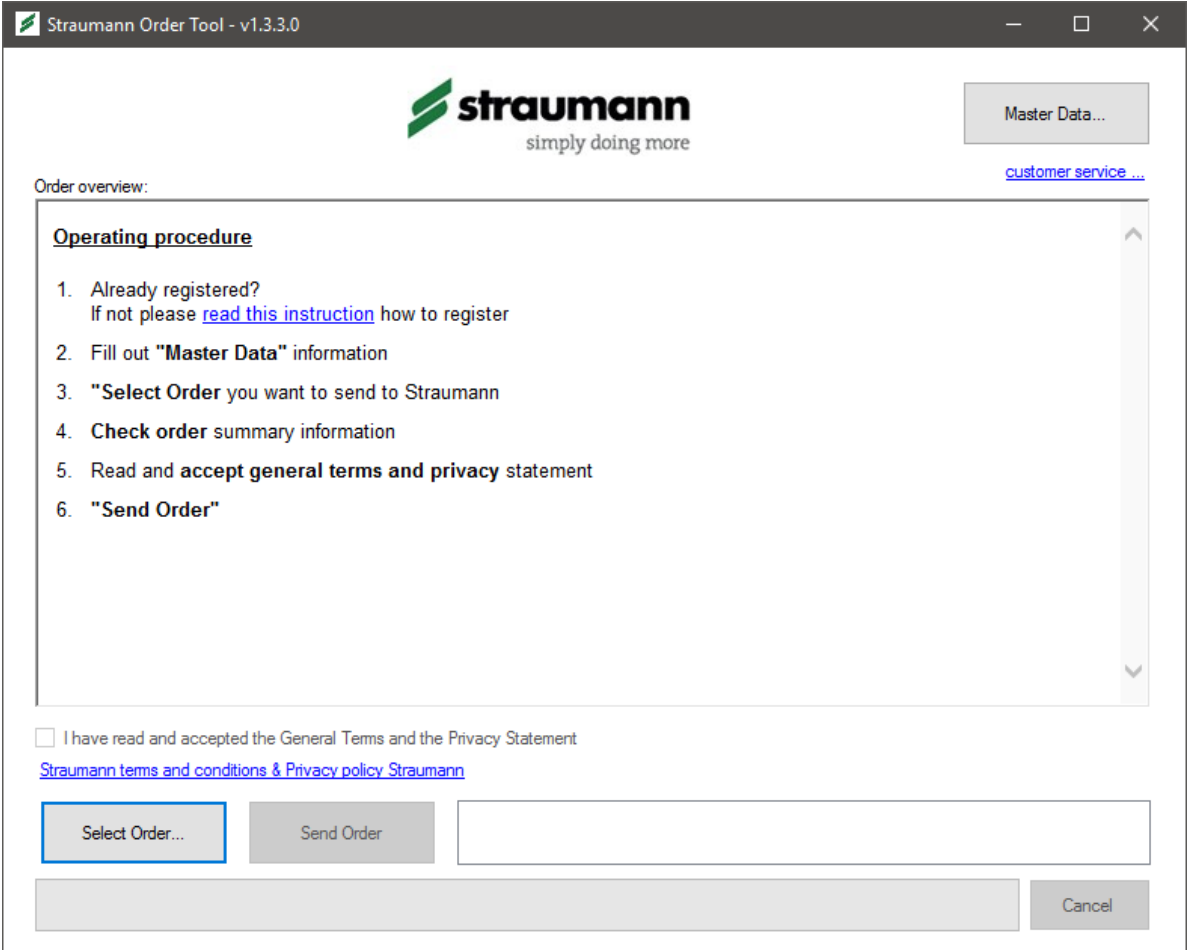
4.2. CAD – Implant Selection

At first, choose a Straumann Library (1). Second step is the indication (2) and at last the implant interface (3).



5. Straumann Order Tool

To send a restoration to the Straumann milling center, open the Straumann Order Tool and follow the steps of the Operating procedure.



6. Using and Ordering Straumann Materials

To use and order Straumann materials the core exocad software is required (users are recommended always to use the latest release).

Each of the Straumann materials with its indications has an IFU that can be obtain directly from the internet:

ifu.straumann.com

6.1. Cautions and Advice

6.1.1. Scanner Source

The source of scanned data and preparation of the tooth model are critical for the quality of the interface to the prosthetics. Ensure that the scanned data correctly represents the patient situation in order to avoid the need for later filing and fitting tasks that may also reduce the strength of the restoration.

6.1.2. Blank Size

Maximum blank sizes for manufacture in Straumann disk materials are not shown with the restoration design. If a design is bigger than the maximum blank size then the order cannot be manufactured and must be adjusted before resending. The maximum heights of Straumann disk blanks by material are:

- Straumann Ticon 14,90 mm
- Straumann Coron 17,40 mm
- Straumann Zerion LT 15,35 mm
- 3M™ ESPE™ Lava™ Plus Zirconia 13,77 mm
- Straumann Polycon cast 14,85 mm
- Straumann Polycon ae 15,85 mm

6.1.3. Limitations

Design of indications that are not included in the libraries may result in restoration of insufficient strength and the order cannot be manufactured.

6.1.4. Indication and Materials

The following indications and materials are available - the indications permitted depend on the material type:

Indication \ Material	Zerion LT	Lava™ Zirconia ¹	Coron (CoCr)	Ticon (Titanium)	Polycon cast	Polycon ae	ZrO ₂ (Abutment)	Titanium (Abutment)	TAN ² (Abutment)	
Tooth borne										
Anatomic Crown	x ³	x	x	x	x	x				local/centralized
Reduced Crown	x	x	x	x	x	x				
Offset Coping	x	x	x	x	x	x				
Anatomic Pontic	x ³	x	x	x	x	x				
Reduced Pontic	x	x	x	x	x	x				
Standard Bridge	x	x	x	x	x	x				
STMN Abutment (one piece)⁵										
Custom abutment							x	x		centralized
Reduced crown (screw retained)							x		x ³	
STMN Premilled Abutment										
Girrbach-Holder								x		local
Medentika-Holder								x		
STMN Variobase Abutment (Ti-Base)										
CI	x	x	x			x				local
Gingiva Height	x	x	x			x				
local milling (3.5mm and 5.5mm)	x	x	x			x				
¹ Lava™ Zirconia is limited to 5 connected units										
² Direct Veneerable Abutment										
³ Not available for US market										
⁴ without UC										

6.1.5. Cautions

- Minimum and Maximum Dimension Controls**

Straumann has developed and tested the limits of dimensions of features in the prosthesis type. These dimensions are controlled through use of normal design tools in the Dental Designer software. Some of the limits can be exceeded or undershot through use of design tool combinations, when this occurs the prosthesis may not have sufficient strength or may not be manufacturable. Do not decrease cross-sections using wax knives or increase lengths using material addition, when a limit has already been reached with geometry “handles” or other tools.

- Margin thickness**

Do not decrease the default minimum margin thickness values, the prosthetic may not be strong enough

- Number of pontics**

Do limit the number of pontics please see ifu.straumann.com for the recommended maximum number of pontics in front and side areas of mouth

- Cross-section of pontics**

Do not make a pontic smaller than the minimum connector cross-section area.

- Local milling – Material dependency**

Only use material and variobase combinations that are approved in your country. Ensure that the recommended minimum wallthickness are used, always read the material manufacturer’s IFU.

7. Terms and Conditions (AGB) for Straumann Products

Practitioners must have appropriate knowledge and instruction in the handling of the Straumann products for using them safely and properly in accordance with their instructions for use. It is the practitioner's responsibility to use the device in accordance with the instructions for use and to determine, if the device fits to the individual patient situation.

The Straumann Product is part of an overall concept and must be used only in conjunction with the corresponding original components and instruments distributed by Institut Straumann AG, its ultimate parent company and all affiliates or subsidiaries of such parent company ("Straumann"), except if stated otherwise in the instructions for use. If use of products made by third parties is not recommended by Straumann in the instructions for use, any such use will void any warranty or other obligation, express or implied, of Straumann.

Links to Detailed Terms and Conditions (to be read before ordering):

http://www.straumann-cares-digital-solutions.com/content/dam/internet/straumann_com/Resources/AGB/AGB_EN.pdf

http://www.straumann-cares-digital-solutions.com/content/dam/internet/straumann_com/Resources/AGB/PRIVACY_EN.pdf

Contact:

Contact information subsidiary