



exocad GmbH

Information

CAD Component Library Services

exocad.com



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exocad Technology Integration Services

exocad's continuously growing, verified component library and hardware databases offer one of the widest selections of supported dental components and equipment. To stay ahead, it's essential to support the latest dental innovations from the very beginning.

That's why we work closely with our partners, official resellers, and dental component manufacturers to ensure that the integration of new and updated systems is as smooth and efficient as possible.

Our services cover everything from library creation and validation to integration into our software platform and includes exocad's thorough manual testing process that is unique to exocad's approach of *Quality First*-libraries.

We offer the following services:

- 1 **CAD Component Library Services for DentalCAD & ChairsideCAD**
- 2 **Implant Library Services for exoplan**
- 3 **Surgical Component Library Services for exoplan's Guide Creator Module**
- 4 **Denture Tooth Library Services for DentalCAD Full Denture Module**
- 5 **Lab Equipment & Material Integration for DentalCAD & iTero™ Design Suite**
- 6 **Technical Consulting & Library Services**

This document covers the workflow for one service. Refer to our separate [price list](#) document for pricing information and further service details.

1 CAD Component Library Services for DentalCAD & ChairsideCAD

We offer a service to create the necessary exocad libraries based on the geometry data of the actual components and additional information. Our CAD component library services currently include services for the integration of Abutment components (Titanium Bases, Multi-Units, Standard Abutments, Scanbodies), Attachments and Lab analogs for *Model Creator*. We perform the checking, validation and integration of the finished library into our web-based download portal and in-software *Library Manager*. Once integrated, the library can be accessed by exocad users worldwide and your brand and products will be visible throughout our software systems.

1.1 Service Details

Your assigned integration specialist will perform the following tasks during our services. Other tasks are not part of our service and will require an individual offer based on the actual workload.

1.1.1 Abutment component libraries – Initial Integration: Create, Check & Sign (1 A I)

Your assigned integration specialist will perform the following tasks during this service:

- STL data & parameter check
- Library creation
 - Scope: Up to 40 library entries in multiple libraries
(Additional components are subject to an effort-based extra fee)
 - Missing parameters and/or geometry files must be provided.
- Library file format conversion & Library signing
- Library integration (exocad download portal & exocad *Library Manager*)
- Announcement of availability via exocad *News Bites* monthly newsletter

1.1.2 Abutment component libraries – Update: Add, Check & Sign (1 A U)

Your assigned integration specialist will perform the following tasks during this service:

- Adding of new components to existing libraries
 - Scope: Up to 40 additional library entries in multiple libraries

(Additional components are subject to an effort-based extra fee)

- Missing parameters and/or geometry files must be provided.
- Library check-up
- Remove components from library
- Renaming of system or supplier
- Adding or updating supplier logo, Preview icon or website link
- Adding or updating article numbers
- Adding or updating part information (e.g. Part weblink, Part name, Part comment)

1.1.3 Abutment component libraries - Validation for FDA cleared software (1 A V)

Your assigned integration specialist will perform the following tasks during this service:

- FDA required internal validation of Libraries
- Result of in-depth testing will be documented by signed exocad validation protocol
- Adding FDA clearance information to library (if necessary)
- Handout of exocad validation protocols in PDF file format

1.1.4 Model Creator libraries – Initial Integration (Create, Check & Sign) & Update (1 M)

- STL data & Excel file check
- Library creation (up to 20 model lab analogs, additional lab analogs are subject to an effort-based fee)
- Library file format conversion & Library signing
- Library integration (exocad download portal & exocad *Library Manager*)
- Announcement of availability via exocad *News Bites* newsletter

1.2 How to get your CAD components integrated or existing libraries updated

1	Obtaining your project ticket number We work with a ticketing system. We have sent you an email with this document via this system. It automatically assigns a ticket number to the project. Remember this ticket number for the following steps. Always use the reply function of your email program to answer our messages without changing the subject line of the email. This ensures the quickest response times as you stay within your defined project.
2	Choose your service type based on component type We currently offer the following library services: - Order no. 1 A I - Abutment component libraries – Initial Integration: Create, Check & Sign - Order no. 1 A U - Abutment component libraries – Update: Add, Check & Sign - Order no. 1 A V - Abutment component libraries - Validation for FDA cleared software - Order no. 1 M - <i>Model Creator</i> libraries – Initial Integration (Create, Check & Sign) & Update Notify us about the service that you are interested in.
3	Create / Check your component shapes You create the geometries (.STL files) of your library that meets our specification. We provide a specification document “Creating Implant Geometries”. This document helps you to generate implant data suitable for integration with exocad. It’s important to strictly follow our specification. Please contact your integration specialist via our ticket system if you face problems in understanding our specification. http://customer.exocad.com/exocad_Instruction_Manual_Creating_Implant_Geometries-en.pdf
4	Optional: Meeting & FAQ We offer to schedule a Microsoft Teams meeting with our integration specialist to clarify our specification as well as explaining the required parameters (see next step). Notify us if you are interested in this option.

5	Prepare shape geometries and fill in parameter list Order no. 1 A I / 1 A U - Abutment component libraries 5A Download the Excel file exocad_DentalCAD_Component_Part_Information and provide us with the required information for each component (Manufacturer, Article Number/Order Code, and Official Product Name) for all scanbodies, titanium bases and premill blank components. Order no. 1 M - Lab analog library for <i>Model Creator</i> 5M Download the Excel file exocad_DentalCAD_Labor_Analog_Information and fill in the compatibility of lab analog shapes related to abutment components in existing libraries. We need the following shape geometries to be able to create a lab analog library: 1. Implant lab analog mesh: This is the digital replica of your implant lab analog and is used for visualization purposes. 2. Retention mesh: It represents the geometry of the cavity in the physical model, in which the actual implant lab analog will later be fitted.
	Note: If any of your submitted components are marketed in the U.S., fill in the correct 510(k) numbers. The resulting Abutment Component libraries will be made available within our U.S. software version. 5B Switch to the table tab "Mesh Groups". It is necessary to know which mesh geometries are aligned to each other. For example, a Titanium base with the filename "Ti-base_1.stl" is aligned with the meshes "Screw_1.stl" "Lab_Analog_1.stl" "Scan_body_1.stl" and "Connection_geometry_1.stl". Add those groups of meshes to the list. For more information about the required mesh geometries, refer to our specification (step 3). 5C Please switch to the "Abutment Restrictions" tab if the components are marketed in the U.S. It is required to provide us with the minimum and maximum values for the following points: - Gingival margin diameter limit: Horizontal measurement from the reference point to the abutment's outer edge. - Gingival margin height limit: Vertical measurement from the reference point to the highest point of the gingiva. - Abutment height limit: The height of the abutment. - Abutment post height limit: Vertical measurement from the top of the abutment to the abutment shoulder. - Abutment angulation limit: Possible angulation of the abutment. Note: The retention mesh in the lab analog library and the scan abutment geometry in the standard implant library shall be in the same coordinate system and correctly aligned to each other. Send us the filled in Excel file to complete this step.

	Note: If you are using any protected brand name for your components or your company name (Manufacturer), make sure to enter the correct trademark or registered trademark symbol (®™). exocad will not check the correctness of your submitted wording and cannot be held responsible for any violation of trademark rights in this context.
6	Submit shape geometries in correct coordinate system We will provide you with a file upload link. Send us your shapes and data ownership confirmation (see note) to complete this step. Note: When sending us your data, confirm that it contains geometries created and distributed by you and that the geometry is based on the actual geometry of an existing physical part. We need written confirmation that you own all rights to distribute the data as well as a confirmation that the geometries are not modified in scaling of length or diameter to avoid data theft as agreed upon in our license agreement.
7	Service Offer & Acceptance Your integration specialist will create an offer for the CAD Component Library Service based on the given input data. See chapter 1.1 for included services and refer to our price list for pricing information. Order the service by signing our offer via DocuSign. You can change the signing responsibility within DocuSign to assign the agreement to the correct person within your company: DocuSign: How to change signer.
8	Medical device certification A valid ISO 13485 certification or comparable medical device certificates according to your country (certification must be valid for the manufacturer who is also named as the manufacturer on the product packaging) needs to be presented. A scan, PDF or picture attachment is sufficient. Send us your medical device certification to complete this step.
9	License Agreement To enable us to use your data within our software systems, it's required to form a License Agreement. This License Agreement also allows us to use your company name, trademarks and related imagery/parameters within our software systems for displaying and advertising. You will receive a second DocuSign link after signing the service offer. You can then review and sign the agreement. After that, DocuSign sends you the verified signed PDF Version. Ensure that the agreement is signed by the manufacturer who is also named as the manufacturer on the product packaging. Sign the License Agreement to complete this step.
10	exocad Library Creation Our integration specialists will create your abutment components libraries based on the given Excel sheet. The libraries will be categorized either by the diameter of the titanium base (NP, RP, WP etc...) or by the name of the scan body, depending on the Excel sheet. If questions occur during the creation process, our specialist will contact you directly.
11	Optional: Test license for DentalCAD If you want to test the final libraries, you can request a test license of our software. A reduced fee is charged for this license. To request or update your test license, send a separate email to integration@exocad.com with the subject: "Test license for library integration, ticket *YourTicketNumberFromStep1*". <i>DentalCAD</i> can be downloaded in our Secure Area in the section "Software". The login credentials will be provided when applying for a <i>DentalCAD</i> license.
12	Finalization by exocad Library Testing & Validation All libraries for our medical device software <i>DentalCAD</i> undergo an in-depth internal testing and validation process. The process ends with securing your .stl files against alteration and signing your <i>DentalCAD Abutment components</i> or <i>Lab Analog libraries</i> to prevent unauthorized modification. This throughout internal testing process involves manual labor and is unique to exocad's approach of <i>Quality First</i> - libraries. Please understand that this process might take some time to get it right.

	After the testing and validation process is finished your <i>DentalCAD</i> implant libraries will become available for download on our website and within <i>Library Manager</i> .
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1.3 Maximum partner waiting time limit

Every library service project has a maximum partner waiting time limit of **two (2)** months. If our integration specialist is waiting for a response to an email that is causing delay of the integration project for more than two months, the project will be canceled. Any further work needs a complete restart of the service, including the necessary fees. The exact date of the integration specialists' email is decisive. We will inform you one week before the waiting time is over. This time limit can be raised upon decision by the integration specialist.

1.4 Frequently asked questions

Visit our [partner information website](#) for guidance and FAQs or [contact us](#).