Available for CEREC SW, inLab CAD SW, 3Shape, Dental Wings, DWOS Lava Edition, exocad, Open design software



# Atlantis<sup>®</sup> Atlantis<sup>®</sup> Core File User guide



#### Atlantis®

#### CONTENTS

This user guide for the Atlantis Core File is valid for:

- CEREC SW 4.4.4 or higher
- inLab CAD SW 16.0 or higher
- exocad DentalCAD
- 3Shape DS 2014/2015
- Dental Wings DWOS 4.0
- DWOS Lava Edition
- Design software that accepts open STL file format

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Product illustrations are not to scale.

## Description of Atlantis® Core File

Atlantis Core File is a digital representation of the total case, including the outer surface of an Atlantis Abutment. Atlantis Core File eliminates the need to scan the abutment and cast and enables the digital design of the coping and final restoration before even receiving the physical abutment ordered. Available in Atlantis WebOrder, Atlantis Core File can be ordered for cement- or screw-retained restorations (with or without screw access hole location).

#### For cement-retained restorations - Atlantis® Abutment and Atlantis® Core File





Atlantis Abutment and Atlantis Core File

Design the final coping/crown in your preferred software

#### For screw-retained restorations – Atlantis<sup>®</sup> CustomBase solution with Atlantis<sup>®</sup> Core File



Atlantis Abutment and Atlantis Core File with screw access location\*



Design the final coping/crown in your preferred software

\* The Atlantis Core File for the CustomBase solution (for screw-retained restorations) includes an additional STL file(s) that displays the location and diameter of the screw access channel. The screw access channel file is used as a guide during the restoration design to add the screw access channel hole.

# Creating a new Atlantis® order

The first step in ordering an Atlantis Core File is to create an Atlantis Abutment or an Atlantis CustomBase order.

<b>ATLANTIS</b> <sup>™</sup> WebOrder	
Weld	come to ATLANTIS WebOrder!
If you have an existing account, please If you are not a registered user, click or	enter your e-mail and password and press the "GO" button to begin. I the "Register" link to set up an account.
	Login to enter an order
Email:	
Password:	
Remember	me: 🔄 GO
Forgot your p	bassword?

1. Log in to Atlantis WebOrder: https://atlantisweborder.com

**Note:** Refer to the Atlantis WebOrder User Guide, 32670167-USX for more information: https://www.atlantisweborder.com/help



**2.** On the "Items" page, specify the options for your order and select to "Atlantis Core File" as the "Atlantis Crown type." Complete the remaining options and submit the order.

#### Downloading Atlantis® Core File

A notification will be sent when the Atlantis Core File is available on the order page.

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**Note:** To apply the steps below, the Atlantis Core File must have been ordered on the item page in Atlantis WebOrder.

**Note:** exocad users may not need to download the Atlantis Core File from Atlantis WebOrder. Please proceed to the exocad import section in this user guide.

- **1.** Log in to Atlantis WebOrder and search for the order in which the Atlantis Core File was ordered.
- 2. Click on the envelope icon.
- Download the correct format for the software that will be used when designing the restoration: CEREC SW and inLab CAD SW: "ACF.dxd" 3Shape: "ACF.3oxz" Dental Wings/Lava: "ACF.xorder" exocad: "ACF.exo" Generic format: "ACF.zip"
- **4.** Click "Save" to save the file to your computer.
- 5. Proceed to the page specified for your software.

**Note:** The core file is available in Atlantis WebOrder for 30 days.

# Importing Atlantis® Core File into CEREC® SW





**1.** Open the CEREC software.



2. Click the orange menu button.

- Save As... Import Export
- Importing case:
   I
- 4. Locate the Atlantis Core File.

3. Click "Import."



5. Click "Save As" to save the patient's details into



Note: It is recommended to choose "Crown" as the restoration type and "Biogeneric Individual" under design mode.

6. Click on the pen tool to edit the case details.





8. Click on the arrows to continue to the Model page.



9. In the "Set Model Axis" step, align the arches to the template. Click "OK" to continue.







# Importing Atlantis<sup>®</sup> Core File into inLab<sup>®</sup> CAD SW



1. Open the inLab CAD Software.



2. Click the icon in the top left corner and click "Import."



**3.** Locate the Atlantis Core File.



**4.** Click "Save As" to save the patient's details into inLab CAD SW.



**5.** Select Milling Machine and material for each tooth in the case. To apply the same settings to each tooth, shift+click to select each tooth.



**6.** Confirm that everything on the order form is correct and click ">>" to continue.

6





**9.** Move the tooth number markers to align on top of the abutment core shapes. Click "Draw Margin" to continue.





**10.** Confirm that the Insertion Axis is correct. Click ">>" to continue.





**11.** Design the restoration.





13. Mill the restoration.

# Adding the screw access channel



#### **Important:** Workaround for production is available with restrictions:

- inLab MC X5 only
- For milling materials only
- (zirconium oxide, PMMA, composite)
- **1.** Click Gingiva Mask Lower/Upper on the "Display Objects" menu to view the screw access channel.

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		Display Objects	- <	1
	1	Upper Jaw (%)	100	
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2. Click "Screw Channel" under the Tools menu, and click "Add Screw Channel."



**3a.** Align the proposed hole with the location of the screw access channel hole.



**3b.** For angulated screw access, adjust the diameter of the proposed hole to match the radius of provided screw access channel. Then, angle the proposed hole to match the angulation of the provided screw access channel.



4. Mill the restoration.

# Importing Atlantis® Core File into exocad DentalCAD



**Note:** For Atlantis abutments orders using exocad, please refer to the user guide for Lab-based scanning for Atlantis abutments with exocad (32670789.)

- **1.** Load the corresponding exocad project. If the Atlantis Abutment order wasn't submitted with exocad, please proceed to step 3.
- 2. Select "Atlantis import." A progress notification message will be shown. The import completion message will show if the import was successful. If the import was successful, continue with the design according to the exocad user guide. If the import was completed with an error message, please refer to the message explanations on page 7.
- **3.** Create a new order in exocad dentalDB and load the project.
- 4. Select "Atlantis import."



- 5. Enter the Atlantis Order reference.
- 6. Click "OK" to start the core file download.

**Note:** A pop-up window will show if the automated download was successful or if it failed for some reason. The download failure could be caused by a bad Internet or a non-existing Atlantis Order reference. If the download failed, please continue with step 7.



Cancel

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- If the automatic download failed, a pop up window will ask to download the core file manually and point to the storage path for the downloaded file.
- 8. Refer to *Atlantis WebOrder* on page 4 for instructions for downloading. When all the steps on page 4 are finalized, continue with step 9.
- 9. Enter the Atlantis Order reference.
- **10.** Browse the storage path for where the core file was saved when downloaded.
- 11. Click "OK" to start the import process.



If the information in the .dentalProject file does not match the Atlantis Core File XML, the core file import will still be done, but a warning message indicating the inconsistency will appear.

Refer to the table below for an explanation of all warning messages:

Warning message	Explanation
No diagnostic scan was provided or ordered with the Atlantis order.	In the .dentalProject file, a wax-up scan or a separate pre-op scan has been defined, but there was no diagnostic scan submitted with the Atlantis abutment.
No antagonist scan was provided with the Atlantis order.	In the .dentalProject file, an antagonist has been defined, but there was no antagonist scan submitted with the Atlantis abutment order.
No Atlantis abutments were designed in parallel.	In the .dentalProject file, a bridge has been defined, but there were no Atlantis abutments ordered to be designed as a parallel group.
Antagonist provided with the Atlantis order was "RegisteredJaws"/ "Mush bite".	The .dentalProject file defines the antagonist type in a way that differs from the Atlantis abutment order.
A diagnostic scan was provided with Atlantis Core File but no definition found in the project file.	In the .dentalProject file, no wax-up or separate pre-op is defined but there was a diagnostic scan submitted with the Atlantis abutment order which was included in the Atlantis Core File.
An antagonist scan is provided with Atlantis Core File but no definition found in the project file.	In the .dentalProject file, no Antagonist has been defined, but there was an antagonist scan submitted with the Atlantis abutment order and included in the Atlantis Core File.
At least one adjacent tooth definition is needed for cast scan display.	In the .dentalProject file, no adjacent tooth is defined. Thus, the cast scan will not be displayed when design starts.
All teeth in the .dentalProject file that have to be imported must have "None" as the implant type.	In order to import the Atlantis Core File, the implant type for a tooth which has Atlantis Core File ordered has to be "No Implant".
No teeth are common between the Atlantis Core File and the .dentalProject file.	
Atlantis Core Files are provided for tooth no.1, no.2,etc.	Implant numbers are inconsistent between the .dentalProject file and the Atlantis Core File.
There are more teeth in the Atlantis Core File than in the .dentalProject file.	

Note: All inconsistency can be corrected through the exocad dentalDB user interface. There is no need to re-import the Atlantis Core File.

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# Adding the screw access channel



1. Ensure that the "Implant based?" field under Options & Parameters is set to "Screw Retained (manual positioning)."

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	ATLANTIS™ order			
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6	Design			
\$	Manufacture			
	Model Creator			
Q	dentalshare			
È	Сору			

2. Click "OK" and enter the "Design window."





4. Enter Tools and select "Add/Remove mesh."





- 5. Select "Generic visualization mesh" as the mesh type.
- **6.** Load the -sac.stl file(s) for the project. This file is used as a guide during the restoration design process in order to add the screw access channel hole.





**7a.** Design the screw access channel by adjusting the channel axis and diameter based on the visualization mesh displayed.



**7b.** For angulated screw access, adjust the diameter of the proposed hole to match the radius of provided screw access channel. Then, angle the proposed hole to match the angulation of the provided screw access channel.



8. Design the crown.

### Importing Atlantis® Core File into 3Shape



1. Open the 3Shape software.

**Important:** Do not create a new order to import and use the Atlantis Core File.

2. Right click "Orders."

3. Click "Advanced."





4. Click "Import."







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### Adding the screw access channel



1. Open the case.

2. The screw access location is displayed in blue.

**Note:** The screw access location may not be displayed by default. Use the display slider in the top right to show screw access location.



- **3.** Design the crown.
- **4a.** Use the "Attachment option" (Parametric shapes, Cylinder hole, View directions) to cut the screw access hole with the guidance from the screw access channel file.



4b. For angulated screw access, two cylinders will be used. Place the first cylinder on one end of the oval screw access channel shape and adjust the diameter of the proposed cylinder to match the radius of provided screw access channel. Add a second cylinder to the opposite end of the oval screw access channel shape and adjust the diameter of the proposed cylinder to match the radius of the provided screw access channel.

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**5.** Click to "Apply all placed attachments" and create the crown with the screw access channel.



6. Finalize the restoration design.

# Importing Atlantis<sup>®</sup> Core File into Dental Wings or DWOS Lava Edition



1. Open the Dental Wings or Lava Edition software.

**Important:** Do not create a new order to import and use the Atlantis Core File.

- 2. Open the "Order Management" page.
- 3. Click the "Import third party order" button.



- 4. Select "DWOS XOrder (.xorder)" as the file type.
- 5. Find the path where the file was saved.



- 6. Select "Materials."
- **7.** Select "Assign patient manually" to assign a patient to the order.

**Note:** If the patient name already exists in the system, assign a new name to differentiate the order.

- 8. Select or create a patient to assign to the order.
- **9.** Click "OK" to finalize.

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**10.** Click "OK" to confirm that the order has been imported successfully.

10

**Note:** After the Atlantis Core File has been imported into the Dental Wings or Lava system, the order is available in the CAD station for design. For information about how to proceed and design copings, please refer to the Dental Wings or Lava user guide.

# Adding the screw access channel



- 1. Open application.
- 2. Right-click and select "Edit order," select the "Prosthesis Subtype" and click "OK."



**3.** Click the face icon to display the screw access channel.







6. Click "OK."



- **8.** Align the insertion direction of the green cylinder to match the screw access channel.



**9.** Right-click on the green cylinder again and select "Reposition Attachment Item."



**10.** Adjust the size and position to match the screw access channel and click "OK."



**11.** Repeat steps 3-9 for all applicable restorations.



**12.** Finish the restoration design with screw access channel.



# Importing Atlantis<sup>®</sup> Core File into open design software

With the generic format of the Atlantis Abutment File, it is possible to design the restoration using any design software that accepts an open STL file format.

Naming of the files in the zip package:

<caseno>-<tooth>.stl <caseno>-lower.stl <caseno>-upper.stl

For screw-retained restorations the zip package also includes a file with the screw access channel: <caseno>-upper-sac.stl <caseno>-lower-sac.stl

If the case includes multiple units: <caseno>-upper-<tooth 1>-<tooth 2>-...-<tooth n>.stl <caseno>-lower-<tooth 1>-<tooth 2>-...-<tooth n>.stl

If a diagnostic scan is included: <caseno>-upper-restore.stl <caseno>-lower-restore.stl



The generic core file package includes separate files for cast and abutment as well as a single merged file with all units per jaw.

- 1. Extract the downloaded zip package.
- 2. There are two ways to import the files: 1) import all the tooth files separately, including those that are marked upper and lower, or 2) import them as a group of combined teeth, including those marked upper and lower.

**Note:** For questions regarding the import and design for the system in use, please refer to the user guide for the specific system.



The coordinate system used for the generic core file. The positive Y always points from the lower jaw to the upper jaw.

- **3.** Once the scan files are loaded, adjust the model orientation if needed.
- **4.** Pay attention to the tooth numbering system. The core file for open software is using universal notation. Change to FDI notation if needed.
- **5.** Design the restoration in the same way as if the cast was scanned instead of imported digitally from Atlantis WebOrder.

# Appendix A

#### Adding more restorations - CEREC SW





**2.** The rest of the teeth will light up at this point. Select the tooth or teeth which have been prepped.



**3.** The material/design mode will be copied from the original restoration. This can be edited with the pen symbol in the case details tab.



 **4.** Now that there are more than the single restoration selected, the software will prompt you for margin lines & designs for each restoration.

### Appendix B

#### Failed to process your Atlantis® Core File order

You may get an error message in an e-mail notifying you that the Atlantis Core File order has been replaced and a new one become available on Atlantis WebOrder. If the core file failed, a note is also posted on Atlantis WebOrder.

1. Review the email received and act accordingly. If you have any questions, please contact Dentsply Sirona Implants customer service.

**Important:** If the message states that the core file has been updated and re-uploaded, then it is important to delete the already downloaded core file and replace it with the new one.

If you have any questions, please contact Dentsply Sirona Implants Customer Service. If any design changes take place after the core file was available, WebOrder, the Atlantis Core File, is removed from the download place and the following message is sent:

#### Dear Customer,

We would like to inform you that the Atlantis Core File that was available on Atlantis WebOrder has been removed due to changes in the design of the Atlantis abutment. If you already have downloaded the core file, it is important to delete it. When a new core file is available, you will receive a new message. We apologize for any inconvenience this may cause.

Best regards,

Atlantis Customer Service

#### When the Atlantis Core File is updated and available again, the following message is sent:

Dear Customer,

We would like to inform you that the Atlantis Core File has been updated and re-uploaded to the Atlantis WebOrder.

Best regards,

Atlantis Customer Service

If Atlantis Core File is not available for download due to technical difficulties, the following message is sent:

#### Dear Customer,

We would like to inform you that we are unable to deliver the Atlantis Core File you ordered due to technical difficulties. We apologize for any inconvenience this may cause.

Best regards,

Atlantis Customer Service

## Appendix C

#### Designing pontic on Atlantis® Core File

A pontic can be added and designed in the Dental Wings or Lava CAD application after downloading and importing the Atlantis Core File.



- 1. Import the Atlantis Core File.
- 2. Right click on the prosthesis.
- 3. Click "Edit Order" from the context menu.

**Note:** Fore more information about general customization tools, please refer to the Dental Wings or Lava user guides.



- 4. Select all units of the bridge.
- 5. Select "Undo Bridge" from the context menu.



6. Select "Pontics" from the prosthesis menu.



**7.** Select the pontic type from the Prosthesis Subtype menu.

**8.** Click on the teeth for the pontics in the case (in this case, tooth number 13.)



- 9. Select all the teeth needed for the bridge.
- 10. Click "Create Bridge."



- **11.** Base layer information is updated to bridge.
- 12. Click "OK" to proceed.
- **13.** The initial design for a bridge with pontics is displayed.

## Appendix D

#### Designing pontic with 3Shape

A pontic can be added and designed in the 3Shape application after downloading and importing the Atlantis Core File.



### Appendix E

#### Later order

Atlantis Core File can also be ordered after receiving the physical Atlantis Abutment. This service will be handled as a "Later order," but will only include the core file (not the abutment).

**Note:** The earliest a later order for Atlantis Core File can be submitted is when the initial Atlantis Abutment order is in the "Shipped" status. It is important to note that no other later order can be made with the specific core file (e.g. not valid for any abutment, screw, etc.) The later order for core file is unit-based.

1. Log into Atlantis WebOrder, locate the order in which you would like to order a core file(s), and click on "Later order."



**3.** Be sure to **uncheck** the abutments that you do not need a core file for and click "Next." All abutments are checked by default.

Orders	My account	1	Design profiles		Preferences
Overview   Bill & Ship					
Order reference & Prescriber					
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4. Submit the order.

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	SUBMITTED			
	Based on Order # 1727120			
Order list   Edit th	is information >>		Heliumgatan 1,	SE-431 53 Molndal, Sweder
Expand Collapse			Email: Implan	ts-NA-QA07@dentspty.com
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Profile name:	Prescriber:	Prescribe	r postal code: 838	
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- **5.** On the confirmation page, the column the right verifies that core file(s) ordered.
- **6.** As soon as the core file(s) are ready for download, an email notification will be sent.

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oration type ent-retained	Abutment material	ATLANTIS Core File
oration type ent-retained ent-retained	Abutment material Titanium Titanium	ATLANTIS Core File

7. In the order list, a red envelope icon will appear which indicates that the core file is ready for download.

Order ID	Order reference	Product type	Profile name	Prescriber	Units	Submit date	Materials received	Due date	Status	Case number	ATLANTIS Digital File
59918	Orion15_Ti_test5 (LO-ACF)	Abutment			2	2015-12-15	2015-12-15	2015-12-16	\$ 2016-04-26»	1725489	$\bowtie$
59913	1649052_CFOnly (LO-ACF)	Abutment			2	2015-12-15	2015-12-15	2015-12-16	\$ 2016-04-26»	1725488	$\bowtie$
59675 (1 new comment)	CFOLO_test8 (1 new comment) (LO-ACF)	Abutment			3	2015-12-10	2015-12-10	2015-12-11	\$ 2016-04-26»	1725368	
59672	CFOLO_test (LO-ACF)	Abutment			1	2015-12-10	2015-12-10	2015-12-11	\$ 2016-04-26»	1725363	
59143	15241 viktor 1	Abutment			3	2015-12-02	2015-12-02	2015-12-11	\$ 2015-12-02»	1725047	
58946	CPS81_cfolo_test1 (LO-ACF)	Abutment			1	2015-11-26	2015-11-26	2015-11-27	\$ 2016-04-26»	1724990	$\bowtie$
58925	CPS81_test5 (LO-ACF)	Abutment			1	2015-11-25	2015-11-25	2015-11-26	\$ 2016-04-26	1724986	
58912	PWS41_final2_test26 (LO-ACF)	Abutment			4	2015-11-25	2015-11-25	2015-11-26	\$ 2016-04-26»	1724979	
58864 (1 new comment)	AWO250_semo1 (1 new comment) (LO)	Abutment			2	2015-11-24	2015-11-24	2015-12-01	\$ 2015-11-24	1724965	$\bowtie$
58861	AWO250_semo1 (LO)	Abutment			2	2015-11-24	2015-11-24	2015-12-01	\$ 2015-11-24»	1724964	

WebOrder									
	Core file only Later Order #17:	26561 (SHIPPED)							
	Based on Order # 172	4272							
Order list		Heliumgatan 1, SE-431 53 Moindal, Sweden Telephone +46 31 356 85 00							
Expand Collapse	Email: implants-NA-QA07@den								
Order reference: CFOLO test TPG8.2 (LO-ACF)									
Profile name:	Prescriber:	Prescriber postal code: 44							
Shipping preference: DENTSPLY Implants selects the best way end of business day									
Payment method: Invoice		Shipment tracking #: 1ZRY0403D969316034							
Entered By:	Due date:								
Agneta Toresson (agneta.toresson@gmail.com)	2016-02-24								
Order Addresses		*							
Download ATLANTIS Abutment Digital File		*							
2 Chapper 1726561 ACE 2017									
Dental Wings/Lava: 1726561-ACE vorder									
Dental Hings Latar 172000 Mor Xorder									

#### About Dentsply Sirona Implants

Dentsply Sirona Implants offers comprehensive solutions for all phases of implant therapy, including Ankylos\*, Astra Tech Implant System\* and Xive\* implant lines, digital technologies, such as Atlantis\* patient-specific solutions and Simplant\* guided surgery, Symbios\* regenerative solutions, and professional and business development programs, such as STEPPS™. Dentsply Sirona Implants creates value for dental professionals and allows for predictable and lasting implant treatment outcomes, resulting in enhanced quality of life for patients.

#### About Dentsply Sirona

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with a 130-year history of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world class brands. As The Dental Solutions Company™, Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better, safer and faster dentistry. Dentsply Sirona's global headquarters is located in York, Pennsylvania, and the international headquarters is based in Salzburg, Austria. The company's shares are listed in the United States on NASDAQ under the symbol XRAY.

Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

THE DENTAL SOLUTIONS COMPANY™

