 Straumann® CARES® Visual 10
Software Update – What’s New

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Contents

1. New Features and Products ................................................................. 2
   1.1 Crowns with Millings ................................................................. 2
   1.2 Combining Partial Frameworks with CAD .................................. 3
   1.3 Virtual and Real Waxing Workflow .......................................... 4
   1.4 Vestibular Veneered Abutment ................................................. 5

2. Enhanced Features and Products ..................................................... 6
   2.1 Telescopic Crown ....................................................................... 6
   2.2 CARES® Fixed Bar Workflow .................................................. 8
   2.3 Custom Abutment Design .......................................................... 11
   2.4 Tooth Chain ............................................................................... 12
   2.5 Synergy Workflow ...................................................................... 13

3. General enhancements to CARES® Software .................................. 14
   3.1 Validation Time ........................................................................... 14
   3.2 Scan Progress Information ...................................................... 14
   3.3 Nesting in Multicolored Blocks ................................................ 14
   3.4 Add / Remove Material in merged state .................................... 14
   3.5 Notification Center .................................................................... 15
   3.6 Adding Attachments .................................................................. 15

4. Model free workflow for CARES® Screw-retained bridges and bars (SRBB) ................................................................. 16

5. Tips and Tricks ................................................................................ 17
1. New Features and Products

1.1 Crowns with Millings

The CARES® User is now able to create crowns that are partially covered by a functional milling surface. This for example, can be used in combination with a Partial Framework (see. 1.2)

Milling can be applied to single units or to bridges. In order to apply the functional milling surface the crown needs to be designed to avoid going under the minimal wall thickness with the milled surface.

**NOTE:** Object can be merged and unmerged individually in CAD module. The finalizing step is no longer needed at the end. Changes to finished designs can be made instantly.

In addition to the Milling function, Attachments can be added to the Crown. These can be positive (slide attachments) or negative (Holes, blind Hole). They are automatically aligned to be parallel with the milling function surface.

**NOTE:** When using negative attachments, make sure the Crown minimum wall thickness is not being penetrated.
1.2 Combining Partial Frameworks with CAD

The CARES® User is able to combine Partial Frameworks with a designed object in the CAD module. This allows the design of combined removable restorations in one step.

Using the C&B or Implants order, the CARES® User can add a Partial Framework to any order by clicking on the Partial element in the corresponding Jaw.

**NOTE:** Currently only the Crowns with Millings and primary Telescopic Crowns parts can be milled at the Straumann Centralized Milling facility. All other Objects must be exported manually for 3rd party production.
1.3 Virtual and Real Waxing Workflow

NOTE: Only for Straumann in-lab milling and third party milling workflow. Straumann in-Lab milling is not available in all countries.

Using the New Virtual Waxing Order the CARES® User can create a bridge for Tooth-Borne and Implant-Borne restorations that are based on a scanned bridge, as a waxing reference or as a fully digitally designed denture.

Using this Workflow the CARES® user can create bridge adding a support framework for soft tissue replacement. The Bridge can be partially or completely reduced for easier veneering.

NOTE: For best results with the Real Waxing function, we recommend using the CARES® 3 Series or CARES® 7 Series scanners. Results with earlier CARES® scanners may not be ideal.
1.4 Vestibular Veneered Abutment

The CARES® user can now select a Vestibular Veneerable Abutment in Order Creation and send the designed abutment to the Straumann Centralized Milling facility.

This is available for all single-unit Abutments and Bridges (Screw-Retained and Variobase® for Bridge)
2. Enhanced Features and Products

2.1 Telescopic Crown

The Telescopic Crown workflow has been completely redesigned. The CARES® user can now create a telescopic crown using splines.
This enables the user to combine the largest amount of *Functional Area* with the smallest amount of material needed.

Furthermore, the CARES® User will experience ease of use and time savings with enhanced visualization.
2.2 CARES® Fixed Bar Workflow

To reduce the time to design on fixed Bars a new Order Creation, Scan and Design Step has been added.

1. In Order Creation the CARES® User can now choose the Bar Type at the time of fixed-bar selection.
2. In the **Scan Module** the CARES® User can now draw a line on the gingival crest. Along with the line the user can set a gingival spacer for bar positioning. This has the benefit that better initial proposal.

![Image of gingival crest line](image)

**NOTE:** The gingival crest line (yellow) is initially placed at the position of the “green arch line”. Make sure to set this arch accurately, this will be set automatically, but manual setting will give the user exactly what they require.

3. The **CAD Initial Proposal** will be calculated using the gingival crest line with the desired spacer throughout the entire bar.

![Image of CAD Initial Proposal](image)

**TIP:** The *Gingiva Spacer* can be changed in the Bar designer.
The CARES® User is now able to move the entire Bar Cross-section in Segment Mode. Depending on the deformation size, this can be used to readjust the position without losing the cross-section design.
2.3 Custom Abutment Design

The number of Radical Grippers is proportional to the height and position of the cement line (margin line). This makes it easier to design a homogeneous emergence profile for larger emergence profile areas.

The secondary axis of the Abutment is the same as the prosthetic axis of the Crown in the CARES® X-Stream Workflow

In some cases, Incisal grippers create mesh intersections; these have been reworked to simplify the design effort.
2.4 Tooth Chain

The CARES® User doesn’t have to select **Tooth Chain** manually in order to save time to design. This is done automatically and new tooth position Flags permit a better view.

**NOTE:** Make sure the set positions and types correspond to the expected ones. Contact points and Tooth angulation were improved, in order to provide a better initial proposal.
2.5 Synergy Workflow

A new Order Type for the Synergy workflow has been added to the Order Creation tab. This makes it easier to start the Synergy workflow. Larger data packages can be sent using the Synergy workflow. These include bone information from CAD or complete bridges from coDiagnostiX™.

**NOTE:** To use all of the new Synergy functions, your coDiagnostiX partner must have a software version higher than V 9.7.

The Implant Axis can be made visible in CAD.

Model Builder now recognizes the Emergence Profile of the designed Abutment.
3. General enhancements to CARES\textsuperscript{®} Software

3.1 Validation Time

Merging of objects can now be done manually the total time of Design Validation is therefore reduced, since validation is only executed one time. Furthermore all design tests have been optimized to reduce waiting time.

3.2 Scan Progress Information

The CARES\textsuperscript{®} User is informed about the scan progress with a change to the menu bar. The already scanned steps are marked as “checked”

3.3 Nesting in Multicolored Blocks

The CARES\textsuperscript{®} User can now nest multicolored Materials with a realistic functional color scheme (for enamel, dentine etc.)

3.4 Add / Remove Material in merged state

The CARES\textsuperscript{®} User can now use the add/ remove material function on objects that have been merged to do further minor adjustments to the object.

\textbf{NOTE}: This function must be used with care; the design might no longer be valid. These adjustments will be lost if the object is being unmerged again.

\textbf{NOTE}: Not available for implant borne prosthetics
3.5 Notification Center

Since the Finalizing Step has been removed and all objects can be merged individually, a Notification Center has been added to the lower right corner of the user interface.

If under some circumstances the merging cannot be done, a Message will appear in the Notification Center.

**NOTE:** An object cannot be sent to production until all notifications for the individual parts are “okay”.

3.6 Adding Attachments

Additional attachment Kits have been added.
4. Model free workflow for CARES® Screw-retained bridges and bars (SRBB)

In the order summary the customer now can chose if he/she wants to send the stone model to Straumann for manufacturing the SRBB or just the design data. This applies for all CARES® SRBB sizes and platform combination.

Straumann recommends sending in the stone model for cases containing more than 2 implants, for highest accurate and consistent fitting SRBBs.

By sending in the stone model you profit of the Straumann *FitCheck Service*:

<table>
<thead>
<tr>
<th>Sending the Stone model</th>
<th>Model free, sending only design data</th>
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<tbody>
<tr>
<td>Straumann measures the stone model/implant positions with a high precision industrial measuring device for:</td>
<td></td>
</tr>
<tr>
<td>- highest accurate fitting SRBB</td>
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<tr>
<td>- correction of male portion of the scan bodies leading to potential lack of adjustment of the SRBB</td>
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</tr>
<tr>
<td>✓</td>
<td>✗</td>
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<tr>
<td>Straumann fit checks the SRBB on the stone model.</td>
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<tr>
<td>✓</td>
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<td>Turnaround time</td>
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<td>Guarantee</td>
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5. Tips and Tricks

1. Use the **Clip View** function or **Transparency Sliders** when designing Telescopic Crowns.

2. Use the **Shift + Right Mouse Click** function to temporarily set the deformation size to “all” when using the 2D Widget for Bars.

3. Make sure to block out undercuts on crowns when designing a partial framework in combination with primary crowns; this is not done automatically, to allow more flexibility in design and manual removal of undercuts in the laboratory.

4. Closing selective holes can be done by using the **3D Clipping Tools** in all design steps.

5. The best scanning results for Custom Abutment with Waxing (in the Sleeve Holder) can be achieved when the “**Precise Scan**” setting (applies only to the 3Series and 7 Series scanner).