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1. Bug fix within the Straumann® CARES® Visual

Within this release version the below listed missing functions were implemented in order to improve the workflow of the design software. This will increase time saving as well as efficiency for the CARES user.

1.1 Scanmanager – Global Emergence profile scan

The workflow global emergence scan (additional jaw scan including gingiva mask) is on default activated within the scan manager in order of imitate the global gingiva scan after Scanbody reconstruction. If the user want to perform a local emergence profile scan the icon should be de-activated (e.g. single Abutment). The local emergence profile scan can as used to be performed after the Scanbody reconstruction via the context menu.

![Image of Arch Scan with options for emergence profile(s)]
1.2 Order date in the IO inbox

Within this CARES® Visual version the user will be able to check the right order date which is transmitted with the IO data. This allows the user to priorities the incoming cases if necessary.

1.3 Wax up improvement during anatomy adaptation

The user will have a more guided and improved adaptation of his wax up scans during the anatomical morphing and the related tooth classification. These classifications are necessary in the case of the use on clinical handles within the multi designer. Especially this Bug Fix is related to the connector design after the anatomy adaptation. Sometimes the connector surface was inverted and lead to merging problems.
1.4 Improved blank size check
This Bug Fix makes sure within the production process, that only objects can be send to Straumann which are within the height of the material blank.

1.5 Client error using waxing tool
Multiple tooth modifications of the overlay using the waxing tools created a client error.

2. Optimizing of Straumann® CARES® Visual functions

2.1 Extended Wizard indication
The CARES® Visual Wizard got the additional indication CARES® CAD Abutment. Single Abutments including local gingiva scan are now possible through the Wizard module. This will help the user in the sense of the Wizard module to handle the workflow of scan & design in a simple/guided way.

Note: SRBB and Custom Abutment with waxing are not available.
2.2 Wizard bug: Check bite 3 point matching
Using the Wizard you are able to 3 point match your scanned check bite.

2.3 CARES® Bar: New User Interface to set the bar axis
The new interface tool shown below following features:
1. The outer cone indicates the sum of the divergences of all primary implant axis.
2. The inner cone as green area indicates the allowed tilting of the bar segments depending on all primary implant axis.
3. The pink arrow has a gripper point in order to perform the allowed live setting of all bar segment within the inner cone.
2.4 Improvements in the prosthetic type Inlay

The CARES user will experience an improvement designing the prosthesis type Inlay. This CARES® Visual version included within the multi designer tool more efficiency regarding the adaptation of the design. This will lead to a better and easier finished restoration. The changes are following ones:

1. Anatomy adaptation:
   Major adaptations of the tooth can easily be done using the Anatomy. In this stage, the Anatomy is complete released from the margin line. After validation, the overlay will be morphed again utilizing the Straumann patented unique morphing algorithm.
2. Overlay adaptation:
Modifications on the overlay can easily be done using the transformers or the waxing tools. The transition area between anatomy and margin will remain very anatomically...
3. Margin adaptation:
The CARES® Visual® got a new calculation routine in order to have a smooth transition area between margin line and anatomy.
4. Pre-Nesting adaptation:
The CARES® user has with the newly integrated freedom in the pre-nesting module more flexibility to choose his required pin location. Therefore he can move on one hand the object as on the initial proposed horizontal plane. If it is required to move additional the pin he can highlight the pin and move the pin towards the right position.

Note: The pin should not interfere with the margin line as well as he requires a minimum of attached cross section area. If this is not the case an error massage will accrue and the user must adapt the pin location.
2.5 Improvement Custom Abutment with Waxing
Within this CARES® Visual® a new algorithm was implemented in order to utilize more of the manual waxing to build up the 3D abutment design.

2.6 Mirror function
The CARES® user has more design flexibility within the mirror anatomy function as shown below. By enabling *keep cervical area information* the user can fully tack the surface of the next to tooth.

*Note:* The example below the tack line was around the gingiva crest to show only the function how much of the surface is mirrored.

2.7 Improvement connector cross section check
The Connector initial proposal has been improved, to achieve the correct size that is needed for finalization.

2.8 Adaptation environment with Occlusion management
- Defining points on antagonist
- Automatic alignment of cusps
- Improved adaptation to the antagonist
3. External Workflow

3.1 New Prosthesis type available:
The Cares® customer is able to design via the external workflow customized gingiva former (custom implant healing abutment/cap). The precondition is that an implant kit was imported beside the Straumann implant kit. The Straumann implant kit is only available within the validated workflow as well as within the validated indications (prosthesis type/sup-type)

3.2 Retention beads
The retention beads as shown below are now available on all framework restorations.
3.3 Partials:
Improved computation of clasp edge

Additional customizable expansion parameter on inferior bar
4. New Tip and Trick

4.1 Following list of short key will help the CARES® user to more efficient.

<table>
<thead>
<tr>
<th>Multi designer</th>
<th>Windows key</th>
</tr>
</thead>
<tbody>
<tr>
<td>blend in task bar</td>
<td>Windows key</td>
</tr>
<tr>
<td>prepline closing</td>
<td>c</td>
</tr>
<tr>
<td>prepline opening</td>
<td>o</td>
</tr>
<tr>
<td>blend out inactive jaw elements</td>
<td>spacebar pressed down</td>
</tr>
<tr>
<td>reposition transformation axis towards actual view</td>
<td>p</td>
</tr>
<tr>
<td>undo material add to or remove</td>
<td>Ctrl* z</td>
</tr>
<tr>
<td>redo material add to or remove</td>
<td>Ctrl* y</td>
</tr>
<tr>
<td>change cross section wax knife/connector</td>
<td>left mouse button + mouse wheel</td>
</tr>
<tr>
<td>change of add or remove Wax knife thickness</td>
<td>up/down arrow key</td>
</tr>
<tr>
<td>add</td>
<td>left mouse button</td>
</tr>
<tr>
<td>remove</td>
<td>Ctrl* + left mouse button</td>
</tr>
<tr>
<td>smooth</td>
<td>Shift + left mouse button</td>
</tr>
<tr>
<td>scrape</td>
<td>Alt + left mouse button</td>
</tr>
<tr>
<td>erase scan</td>
<td>draw</td>
</tr>
<tr>
<td></td>
<td>scrape</td>
</tr>
</tbody>
</table>

* Can be also STRG depending on the used keyboard (Country specific)

4.2 CARES® Guide

The new icon for the product information CARES® Guide can now be found in the Products & Service Tile of the Dental Desktop.
4.3 Collar position

**Tip:** Settings regarding to the Collar Position line should only be done during the scan module workflow or over the parameters in “Edit Margin Line”.

![Diagram of parameters](image-url)