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Advanced initial proposal and design features

1. New Software Function —— better top down initial proposal
The following tools described are intended to create better prosthetic initial proposals.

Customer benefits
The customer will have the ability to be more efficient with newly added tools to create an esthetic initial proposal as a good starting point. Efficient use of time can be gained by further manipulation of the initial design proposal by using existing tools like the Multi-Designer Tool.

Description
The Environmental tool allows the user to mark on adjacent teeth the following tooth markers:
- Tooth cusps or the incisal edges
- Marginal ridges
- Fissures
- Contact Points

These markers will position the initial proposal of the anatomy in line with adjacent ones. There is the possibility to do this in the scan module during editing margins as the picture below. Press Cancel if you wish to skip this step.
The same tool can be used in the CAD Station, using your right mouse click on the tooth design within the context menu *Anatomy/ Adaptation Environment.*
The new view option *Display Layer* within the design model allows the user with a simple click to decide which layer he wants to work on. This new option is especially useful for the design of Straumann CARES® X-Stream™ solutions.
Description

SR\(^1\) Bar pillar proposal

The new proposal of the SR Bar pillar is based on the interface to the corresponding implant and ensures that a validated design of a SR Bar can be achieved.

The initial proposal is characterized by the non-adjustable parameters between the SR Bar pillar and the implant interface and by the adjustable “out of interface” parameters.

The initial proposal is based in the standard/stock Bar abutment portfolio, with the necessary modification to incorporate the high requirements of the CARES\(^\circledR\)SR Bar.

\(^1\) : Refers to Screw-Retained
2. New Software Function— clinical handles

The following tools describe the improved gripper functions. The improvements apply to the anatomical handles.

Customer benefits

The customer will have the ability with these tools to create CARES® Abutments more efficiently, thus saving more time.

Description  New Abutment Multi Designer

The user has the ability to set the main design parameters with the multi designer and see the changes live on the abutment.

Preview the surface which will be computed after validation and tool compensation, to show the actual milled abutment.

Choosing between global and local handles makes it possible to change the area of influence.

*Re-computation* is divided into top part and radical area. These parts can be computed independent from each other so that designed parts will not get lost.

Description  Free handle movement

The handles can be moved with more freedom to allow a better customized design, but still respecting an undercut-free surface.
Description  Telescopic crown

The Telescopic Crown Parameters can now be changed directly in the designer tool. Using the Resolution slider makes it possible to change the amount of grippers and area of influence used to design the telescopic crown.
3. New Software Function ——Improved CAD function

The following tools described will provide better efficiency in designing the desired restoration.

Customer benefits

The convenience of these new tools will allow time-savings and smoother management of the design process.

Description      Blank positioning

The user will be prompted for the automatic removal of the part of the designed prosthesis which exceeds the parameters of the milling blank.

Description      Recompute all connectors

All Connectors can be recomputed at once.
Description       Redo/undo
Multi Designer allows the user to undo and redo the last design steps with the back and forward buttons.

The *Undo/Redo* buttons, eg. here on the incisal edge can be utilized up to 99 times within the open *Multi-Designer* tool. After closing the tool, the counter will be reset in this Undo/Redo function.

Description       Save button
Besides the auto-save function, the user will have the ability to save the status of the current design manually at any time.

Description       Add/remove material on Overlay
This tool allows the user to add/remove Material on the overlay of:
1. CARES® custom Abutment with waxing
2. CARES® SR Bridge reduced type
3. CARES® custom Abutment reduced crown
Description      Mirror / copy

If there is a wrong incisal point positioning marked with the external adjustment tool, the user is now able to copy or mirror a surface, to ensure the correct tooth design is implemented.

The following pictures demonstrate that the software will automatically mirror the anatomy when the upper right central tooth is being designed (left picture). However, if the user wishes to copy the anatomy (right picture), this is possible by using the function mirror manually.
Description  Chamfer plane SR Bar pillar

This tool allows the customer to create a custom chamfer on each pillar.
4. New Prosthetic Types
Within the order mask the customer will find new prosthetic subtypes. These are the telescopic crown and the advanced pontic.

Customer benefit
The extension of the subtypes allows the customer to accomplish his business needs.

Description      Telescopic crown
A new Telescopic Crown design is available for tooth-borne and implant-borne restorations. This design is based on a reduced form of a full anatomical crown and brings new design tools with it.

This Projection on Anatomy is activated in the Telescopic Parameters.
Description | Advanced pontic

1. New prosthesis subtype *(advanced pontic)* has to be chosen.

2. Pontic area has to be scanned in cylinder scan, from model or can be extracted from arch scan if the quality is sufficient enough.
3. A “preparation line” has to be defined to set the area of gingival contact.

4. Final Result
CS2 Wizard mode

1. Simple design and order process
The integrated Wizard will allow an untrained user or one with little experience to get started with this tool. The user will be guided by a content help window and the next /back button.

Customer benefits
The wizard is easy to use and provides an intuitive workflow to simplify training and gain time efficiencies.

![Wizard Interface]

- **New Order**: Create a new order from the beginning
- **Open Order**: Load a local order
- **Parameters**: Check or change material parameters prior to prosthesis design
This intuitive workflow prompts you through the following simple steps:

1. Initializing the Scanner CS2

2. New Order creation
3. Scan and Design guidance using the toolbar

4. Finalizing step before sending the order to Straumann® milling side
IO connectivity

1. Standardization of IO Box interface

Description
The User now has the ability to edit the Order after it has been imported directly in the Inbox. Margin Lines that have been set with the IO Lab Station are now transferred into the imported file.

Customer benefits
Greater flexibility for the user, as changes to Material, Color or Prosthesis Subtype can be done in the Inbox. The transfer of Margin Lines with the imported file helps to save more time to gain efficiency.

Tip: Please be aware of the different types of margin lines. For the Prosthetic Family “Inlay”, the Cut Out line still has to be defined by the user, and is not the same as the margin line set in the lab station. This line corresponds to the green line (Tooth Cervical Perimeter)
New Tips and Tricks

Customer benefit
Within this section the CARES user will find all additional improvements. These will help to accomplish the desired designs of the restorations in a more efficient way.

Description Archive order
The User can archive old orders to maintain good software performance. The archive function can be found under Settings/Order Management within the context menu.

Description Secondary milling axis
The user can change the secondary axis in the telescopic designer, without changing the axis of all telescopes. This is only done when the axes are grouped in the ‘edit axis’ menu.

Description Synchronization of Abutment/Crown margin lines
The Crowns Margin and the shoulder line of the Abutment are always in the same position.

Description New Tooth Database
More design flexibility in choosing the desired anatomy.

Description Add/Remove Material on scanned dies
Insufficiently scanned parts can be smoothed out or removed.

Description 3D Clipping Tools
Using a clipping line on the surface of the scan allows the user to select parts independent of the perspective view. This also allows the user to close selected single holes.

Description New Error Message
A new error message appears when problems occur. Please use the function “send log file” so that our support and development teams will be able to correctly assess the issue and support you. The Client must be closed/restarted after this error message.