About this release

In this Dental System™ 2015 release, we have strongly focused on stabilization of all functionalities and processes. System reliability has become more crucial than ever for ensuring your lab’s smooth production as well as satisfied dentists and patients. And as always, we have additionally improved the software according to market needs in collaboration with industry leaders.

This 2015 release introduces new dental indications, and an even more simplified and intuitive user interface. We have added more automation, faster workflows, and new powerful tools as well as improved management of orders. All the new major additions are described in this document. Please refer to the online User Manual for reading detailed descriptions of each feature. We hope you will enjoy exploring the creative power of this new release and trust that it will add high value to your daily business!

A part of your LABcare™ package

3Shape believes that a dynamic and continuously up-to-date system is a natural trait of any CAD/CAM solution for labs and that is why we include unlimited upgrading as an integral part of our LABcare™ package. Our goal is to regularly empower your system with the latest technologies available. Now we give you yet another release, to ensure that your system represents a future-secure investment – stays alive for years to come, and grows stronger and more competitive every year.

More information at
www.3shape.com
www.3shapedental.com
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New Scanning Application – Now Easier & Faster Than Ever

Our new Scanning application facilitates significantly faster scanning through efficient post-processing in the background. A complete new user interface gives you the option to flexibly choose the order of scans e.g. to scan the die first. Another important novelty of this application is its new surface generation capability which delivers more detail on scans. Also, post-processing of texture has been speeded up considerably and we have enhanced the existing alignment feature. Fully available in Q1 2015.

Powerful New Smile Composer™ 2.0 with Integrated Sculpt Toolkit

This unique tool opens up a whole new level of flexibility: By combining two steps in one, it is now possible to choose from the full range of tools previously split between the Smile Composer™ and the Sculpt Toolkit – and to use them in any order you like. The new Smile Composer™ gives you many options such as to add / remove material and to automatically connect crowns to the margin line. A complete new smile library selector make it easy to choose the best smile library for the particular clinical situation.
WHAT’S NEW IN DENTAL SYSTEM™ 2015

■ Exclusive Signature Libraries from Renowned Technicians

Enjoy highly professional anatomy libraries created by recognized masters of esthetic and functional morphology design such as Nondas Vlachopoulos (Greece), Jochen Peters (Germany) and Matt Roberts (US). Dental System’s™ Signature Libraries represent the accumulation of years of dedication and experience on obtaining beautiful results through thousands of cases. Jochen Peters’ library can be obtained from Dentsply. Fully available in Q1 2015.

■ Change Order Form During Design Without Losing Existing Work

This new feature enables the user to change the order form during the design process – even in the middle, without losing the design. For example, you can change materials or switch from a one-layer crown to a two-layer crown if you made a mistake or simply decide to modify the order.

■ Split Bridges with Male and Female Connector

This new option can be used to split bridges when confronted with challenging orientations of two preparations – with convergence or divergence of their insertion directions. The new sub-step “Split bridge” gives users the possibility to choose where to split the bridge using a male and female connector, and to define two separate insertion directions. Fully available in Q1 2015.
**WHAT’S NEW IN DENTAL SYSTEM™ 2015**

- **Easily Design Table Tops and Non-prepared Veneers**
  
  This completely new workflow makes it extra fast and easy to design an onlay-style of restoration on top of non-prepared teeth — such as Table Tops and non-prepared Veneers. To help them create a highly-esthetic design,技术人员 place the anatomy first. The margin line is then automatically extracted at the intersection between anatomy design and the non-prepared tooth. One reason for making table tops can be that the teeth are grinded-down due to bruxism.

- **Positioning Guides for Accurate and Easy Placement of Abutments**
  
  Help your dentist easily and accurately place abutments, temporaries or veneers using custom-designed positioning guides that are created in the same workflow. After completing the design, the next step is to design a guide which rests on the remaining teeth and holds the prosthetic during placement ensuring highly accurate positioning in the patient’s mouth. The guides can be milled or printed easily. Fully available in Q1/Q2 2015.

- **Next-generation Full Denture Design**
  
  Complete new generation of Denture Design software including Model Analysis and a new Smile Selector that is used to select the optimal denture teeth library for the case. Use the Full Denture Smile Composer™ for fast and easy adaptation of the Smile Library of your choice. Moreover, an improved gingiva tool enhances the design and esthetics of the denture base. Users can freely choose between the three manufacturing strategies for Full Denture prosthesis: Glued-in teeth, injection molding and basal reduction including automatic undercut removal and teeth pockets drill compensation. In addition to scanning gypsum models, users can now apply a new workflow using a special fixture for scanning conventional impressions of the edentulous situation.
**WHAT’S NEW IN DENTAL SYSTEM™ 2015**

**Adjustable Incisal Tables for Better Articulation**

The new “Adjustable Incisal Table” functionality effectively guides the technician when designing large anterior cases. This is accomplished by adjusting the angle of the incisal table in order to drive occlusion. For each virtual articulator, the incisal tables are implemented so that they are similar to the corresponding physical articulator. Implemented for Kavo Protar®evo. Remaining articulators will follow in Q1 / Q2 2015.

![Adjustable Incisal Tables for Better Articulation](image)

**Scan and Design Sharing via 3Shape Communicate™**

Collaboration and joint efforts between lab technicians reach a whole new level of efficiency when they share scans and designs via 3Shape Communicate™. Convenient tools for uploading and downloading to / from 3Shape Communicate™ make it easy for lab technicians to access their design cases from remote locations, or to share them with other colleagues or design services. This new option saves time because it omits the need to export and import cases when you want to continue working using another computer, or from a different location. Fully available in Q1 / Q2 2015.

![Scan and Design Sharing via 3Shape Communicate™](image)

**Enhanced Order Overview**

We have reduced the number of buttons and added features in the Order Manager to provide an even better overview through simplified navigation. The lower panel now includes comments and additional order information, e.g. the selected implant library is now displayed. Users can freely define the order of columns in the manager – according to their own preferences. The 3D order form has been developed further to offer extended support of indications.

![Enhanced Order Overview](image)

**New 3Shape Academy Training Videos**

To help you get the most out of your 3Shape Dental System™, we have developed a series of new 3Shape Academy Training Videos. The first coming videos will mainly focus on novice users. They will provide explanations of the basic Dental System™ workflows such as creating a New Order, designing a Single Coping, a Full Anatomy Crown or an Anatomical Coping. More advanced videos will be added soon and will include instructions on how to use the 3Shape Control Panel, how to navigate within Dental Manager, Dental Designer and in the Scanning Interface as well as on how to perform calibration of 3Shape desktop scanners. Fully available in Q1 2015.

![New 3Shape Academy Training Videos](image)
WHAT’S NEW IN DENTAL SYSTEM™ 2015

- Improved Performance of the Order Manager and Manufacturing Inbox
  An easier site-definition functionality allows users to split the information into dentist, lab and manufacturer. A new option offers to auto-delete orders for saving space and improving performance. Additionally, the Manufacturing Inbox now runs as a service which makes it much more responsive than ever before.

- Automatic Information about Upgrades and Availability of New Libraries
  When a new upgrade or library is made available in Dental System™ by your reseller or partner, a pop-up message in Dental Manager informs you immediately. Clicking on the message redirects you to the download section.

- TRIOS® – Enhanced Shade Measurement and Support for Multiple Posts
  Dental System™ 2015 now includes an enhanced capability to measure shades on TRIOS® scans in addition to the dentist’s initial measurement. Furthermore, the handling of multiple scans of a number of scan posts for a single Post & Core is now supported.
Dental System™ 2015 optimizes the user experience up-front — through a redesigned user interface and enhanced user friendliness designed especially to help novices and first-time users. The “Back”, “Next” and “Preview” buttons have been moved to the top of the interface in order to gather order navigation into a single place.

A new helpful option indicates if the margin line has been placed in an undercut area, visualized by either a red or green margin line. A new additional warning alerts the user to secure an optimal setting of the margin line.

Based on the improved Auto-Crown design, we have developed a new Auto-Inlay functionality that enables users to design an inlay fast and easily. We have also optimized the initial placement of the auto-crown, including automatic placement according to neighboring teeth and the actual morphology.
WHAT’S NEW IN DENTAL SYSTEM™ 2015

- Free Alignment of Scans in Dental Designer

Now you can easily align a pre-preparation scan and prepa-
ration scan (e.g. gypsum and TRIOS® scans) if they are not
aligned in the same coordinate system. For example, when
a digital temporary has been modified in the mouth and the
adjustments need to be incorporated in the final design.

- Anatomy Edge Protection for Multi-Layer
  Designs (CAD-On)

In order to keep Multi-Layer crowns and other dental pros-
theses from breaking at the edge during milling, a new
“Anatomy Edge Protection” option has been added. This
feature enables the user to add extra material around the
dge which will then be removed by hand after milling. This
is especially relevant for milling glass ceramics.

- Provide Dentists with a Physical Wax-up

Users can now supplement their Virtual Diagnostic Wax-
up with a physical replica. The feature provides labs with
a cost-efficient way to create and print Physical Diagnostic
Wax-up models. Labs can provide the wax-up as an optional
service that allows the dentist to visualize the restorative
needs of the patient in a traditional manner. To create a
physical wax-up model, simply create a digital temporary
based on the unprepared situation and bring the design into
Model Builder™ where the digital temporaries will replace
the original teeth. Fully available in Q1 2015.
WHAT’S NEW IN DENTAL SYSTEM™ 2015

- **Improved Support for Multilayer Blanks**

This new feature includes the correct visualization of the multilayer blank/materials including scaling which handles corrections for material shrinkage during sintering. An updated output for transferring the position to 3rd party CAM software has been added.

- **Superior Fit of Primary Telescopes**

Adding to the existing high level of primary telescopes functionality, we have now significantly increased esthetics as well. The enhancements provide an improved vestibular minimal surface thickness of the primary telescope due to smoothened sharp edges on the surface ensuring superior fit – especially relevant for anterior designs. Space and material savings are clear additional benefits and we have implemented an improved option to create anatomical secondary crowns using an "Append to Design" functionality in Dental Manager.

- **Abutment Designer™ – New Libraries and Material Thickness Protection**

3Shape Dental System™ now integrates with more than 50 implant libraries. We have recently added many new compatible-with and original libraries covering all global and key regional manufacturers. For more information, please see: www.3shapedental.com/implant-systems. New library-related features include the new screw-hole edge protection with the option to round the hole itself, making sure that the edge of the abutment does not become too thin to avoid issues when milling. The minimum thickness around the abutment’s screw channel is visualized with a red cylinder and guarantees no breakage during milling.

*Note: Due to updated FDA regulations only FDA approved implant libraries can be used in the USA.*

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WHAT’S NEW IN DENTAL SYSTEM™ 2015

■ Combine Scan Flags and Implant Libraries from Different Providers

With the definition of the global 3Shape coordinate system, it is now possible to freely combine scan flags and libraries from different providers as long as the specific library complies with the 3Shape coordinate system and local regulations. Bringing a specific library into the 3Shape coordinate system has been made extremely easy. A new powerful tool transforms the complete library into the correct position. Moreover, a new global connection ID that enables automatic mapping between Implant Studio™, TRIOS® and Dental System™ can be added to the library. End-users must contact their specific library provider regarding availability.

■ Implant Bars with Better Finish

When combining different implant bar profiles such as Preci Horix Elements, a newly created smooth surface transition will ensure optimal finish and high-quality results. In addition, the cut of implant bars to the gingiva has been improved resulting in a nicer surface finish.

■ Improved Implant Studio™ for Implant Planning and Surgical Guides

Implant Studio™ brings together implant planning, prosthetics and surgical guide design for cost efficient local manufacturing. New features such as virtual tooth removal for combined tooth extraction-implant surgery, viewing windows, bone density measurement, implant angle measurement and grouped implant alignment have been introduced. Many new libraries are continuously being added, including major international manufacturers. Implant Studio™ is available as stand-alone Planner or Full version, but also as a version smoothly interfacing with Dental System™ enabling multiple workflows between clinics and labs.

Please note: Implant Studio™ is approved for sale in all EU States, USA, Australia, Canada, Japan, Korea, and more. For more information about availability, please contact your local 3Shape representative.
WHAT’S NEW IN DENTAL SYSTEM™ 2015

**Easily build Denture Libraries**

3Shape Dental System™ 2015 brings you new powerful tools for the composition of Smile Libraries involving the Monson template which simulates natural teeth placement according to the ideal curve of occlusion. Moreover, automatic snapping for standard and lingualized occlusion schemes is now possible. Users can benefit from creating Smile Libraries from scans of physical setups or other libraries. In addition, the gingiva lines can directly be edited on the teeth of the Smile Library.

**Improved and more intuitive Splint Designer™**

Splint Designer™ lets you expand your digital offerings with Splints, Night Guards, Protectors and similar dental appliances. This update contains a more intuitive workflow automatically opening the relevant tools in each design step facilitating an improved user experience. We have also added an Undo / Redo option for all bar modeling features as well as a global insertion direction with the manual wax trimming option. The important new drill compensation ensures sufficient space during milling resulting in high-quality appliances. Automatic ID tag creation is now included in the appliance for easy patient identification or branding of labs. Splint Designer™ is interfacing with Dental System™ and is included free of charge for all Dental System™ Premium subscribers.

**Improved Removable Partial Designs**

An improved RPD insertion direction identification shows the model undercuts from several views simultaneously which leads to increased patient satisfaction. Numerous improvements have been made to the Multiple Major Connector waxing-tool, including better control over the connector’s edge as well as the ability to create multiple connectors with independent parameters. A brand new waxing tool for Occlusal Rest design makes a strong impact on the outline position. Users can now control the stippling area along with user-defined parameters for major connector edge protection from stippling. Now RPD orders based on TRIOS® intraoral scans can be easily designed, prepared for printing with Model Builder™ software and shared via 3Shape Communicate™.
WHAT’S NEW IN DENTAL SYSTEM™ 2015

Model Builder™ Revised for Innovative Die Design

A new innovative die design developed for Model Builder™ makes the models lower, saves material, reduces production time while maintaining the current good fit of the die. Additionally, Model Builder™ now supports designing of study models such as models without any preparations.

The updated Model Builder™ user interface includes new model material shaders and for orders containing digital lab models, Model Builder™ is automatically launched after CAD Design™.
What is 3Shape LABcare™?

LABcare™ is an integral part of Dental System™ and your annual subscription. It bundles services that are designed to safeguard your investment, secure maximum uptime, and help you get the most from your solution year after year. We don’t just deliver a system and then leave you on your own. We believe in making commitments and LABcare™ is one of the ways we fulfill them.

For more information:

3Shape LABcare™:  www.3shapedental.com/restoration/dental-lab/labcare
Webinars:           www.3shapedental.com/webinars