

Release Notes

Simodont Courseware v4.18



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1. VERSION HISTORY

Release month/year		Description	Version
February	2024	Implantology Support for patient scan with color (PLY) Support for selection of region of interest (ROI) from patient scan Mirror turns dark when touched with drill	v4.18
January	2023	Added PRO700 dental models Added support to multiple teeth per tooth position Added Target in Tooth models Added list view mode to the curriculum planner Improved the Bridge procedure Improved the snapshots feature Improved the attempts reports	v4.16
August	2021	Bridge procedure New patient scan page Support for larger intra oral scans Improved load snapshot menu on the Simodont Improved Reporting page New curriculum planner view modes	v4.14
November	2020	Faster Installation New system Settings page Updated instrument icons Extended course deletion options Extended case deletion options Reduction of data size Applications support Korean language	v4.12
September	2020	Styling improved in the Courseware Download a STL from the Evaluation environment	v4.10.1
June	2020	Dental Anatomy (DAN) Module added Ability to create smoother preparations Translation and rotation settings revisited Applications support Arabic, German, Polish, Portuguese, Italian Procedure filtering on models	v4.10.0
August	2019	Case Grouping Adjustable headlight Exam option Application supports Russian, Japanese, Spanish	v4.8.1
April	2019	Nissin branding Support for Questions and Answers in cases Import of intra oral scans in the model library Intra oral scan upload by students Auto logout from the Simodont Courseware on Teacher Station Easy update of case revisions in courses	v4.8.0

2. RELEASE V4.18

2.1 Software release notes

New functionality		
Reference	Category	Description
185124681	Implantology	The v4.18 release officially introduces the implantology procedure. The implant procedure in Simodont focuses on the drilling part of the procedure.
184821120		
184821372		The new procedure comes with new features and a set of 9 new cases based on Nissin's IMP5003 model.
184821200		The new features include:
185291393		- Drillable jawbone with cortical and cancellous bone types simulated.
184821217		- Possibility for guided (haptic) and free-hand drilling, with the option to toggle the drill guide on and off.
184821307		- Real-time bur angulation assistance to guide the student while drilling.
184821120		- Ability to show and hide the ideal preparation axis.
180065979		- Ability to show and hide the target and leeway zones in the bone (Target in Tooth).
180130330		- Ability to make the bone semi-transparent to inspect the preparation. - Nerve damage feedback. - Statistics of the preparation, using target scoring.
		For an overview of the new content related to Implantology (model, instruments, cases) please see the Content section: Available Content updates 3.2.
179718586	Patient Scans – support for colored scans	The v4.18 release supports the use of patient scans containing color information in Simodont. In addition to the support for STL files, the Courseware now also accepts PLY files.
179249004		
180660150		Both PLY files with built in color information, and PLY files with a reference to external textures are supported.
180874787		
180660223		OBJ files are not supported.
181137198		The preview of the uploaded scan is shown in the wizard. The model is made watertight for better results when converting the scan into a 3D drillable model. And for better looks.
182244313		
186110620		Patient scans can be uploaded via the;
185559907		- Patient Scan page – for single use
185869593		- Models page – for repetitive use
186361716		
186211983		

181092456	Patient Scans – support for cropping	The v4.18 release makes it possible to crop the patient scan within the Simodont Courseware. Before it was necessary to crop the scan to the appropriate size with an external cropping tool. Now, the selection of the so called 'region of interest' is done as part of the workflow which makes working with patient scans much easier and faster. The part of the scan that falls inside the 'region of interest' is made into a haptic drillable model. The remainder of the scan is also shown in the simulator but is solely a visual model. This latter part is not made haptic for performance reasons.
179718642		
180437129		
185401542		
185518276		
186211768		
186361623		
186361716		
185510939		
184820172	Mirror usage	The mirror surface turns dark when the drill touches the mirror. Thereby it is not possible anymore to cheat by preparing a tooth using the drill through the mirror.

Fixes & improvements		
Reference	Category	Description
186280512	Reporting	Special characters in Case name, Student Number or Model Name no longer block the STL download (e.g. / \ []). These characters are now replaced by the underscore "_" character.
185541814	Remote Viewer	The auto cycle toggle is no longer outside of the screen area in the Remote Viewer page.
184895230	Teacher station	Change user language is now located in the user profile page.
185200847	Case wizard	When selecting teeth in the case creation wizard, the available tooth type is now also displayed for positions that only have one version. Before, the type for these teeth positions was not shown to the user.
185042723	User settings	The following user specific settings are removed from the User edit pane in the Course Manager: depth factor, language and handedness. These settings are now editable by the user on the Dental Trainer.
184613631	Reporting	The format in which duration is stated in the different CSV reports is made uniform. This affects course data reports: totalAttemptTime, drillScoreTime, totalDrillTime. And for the cases-, groups- and user-reports: sessionTime, totalTime and totalDrillTime.
184378747	Reporting	The time it takes to create the full course data report was reduced by 80%, to avoid long waiting times and possible timeout errors when generating the report.
186381065	Dental Trainer	A fix was made to the scrolling behavior in the cases overview on the dental trainer as it sometimes did not allow users to scroll.
183061062	Automatic Objective Assessment Class I	The Automatic Objective Assessment feature has been removed from the Simodont Courseware. Due to the limited use and possibilities and the decision for another more flexible solution of objective assessment in the future, it was decided to remove this functionality.

182652249 183520785	Mirror movement	The mirror movement was removed from the Simodont dental trainer's treatment execution page.
186062282	Import Users	Users could not be imported and not be added to a group when the email address field was empty in the import file. This is fixed.
184349001	Remote viewer	The issue that caused the inability to maximize the screen at the remote viewer, is fixed.
183769880	Translations	On the User report page, some text was not translated. This has been corrected.
184710039	Change password	The issue that the user change password popup won't close, is fixed.
185705516	Network disruption	When the connection between the Simodont and the Simodont server is lost, you are no longer automatically logged out. To prevent unsaved work getting lost, some buttons are disabled during connection loss. When the connection is restored the user can continue the exercise as normal.
Various	Technical	Many technical improvements have been executed.

Known issues		
Reference	Category	Description
184549124	Case grouping	Course Manager: If a case is removed and used in a case group, it is no longer possible to edit any of the case groups in a course.
185973594	Implant model	The light reflecting from the implant model when using the electric drill, is different than when using the air rotor drill.

2.2 Available content updates

The latest content updates are always performed by Nissin personnel in addition to any software update.

As of the release of the v4.18 the following content update is available:

Content Updates		
Reference	Category	Description
185030904	Models	The v4.18 introduces Nissin's IMP5003 model for implantology training.
185481229		The model offers 3 treatable positions: 45, 46 and 47. The model comes with an optional drill guide for all three positions.
185393214		
185070567		The jawbone simulates the cortical and cancellous bone layers and contains the mandibular nerve canal. The gingiva in this model is already opened and the jawbone is exposed, ready for treatment.
185726347		
185851632		
185442915	Cases	The v4.18 introduces the new implantology procedure and comes with 9 implant cases. The cases are based on Nissin's IMP5003 implantology model. And covers 3 different drilling positions: 45, 46 and 47.
184997312		
185536813		
185967238		For each position there are three levels:
186012001		Level 1: Guided drilling with assistive tools
		Level 2: Guided and free-hand drilling with help of assistive tools
	Level 3: Free-hand drilling without assistive tools	
	The new cases are named:	
	<ul style="list-style-type: none"> • IMP5003-45 LVL1, IMP5003-45 LVL2, IMP5003-45 LVL3 • IMP5003-46 LVL1, IMP5003-46 LVL2, IMP5003-46 LVL3 • IMP5003-47 LVL1, IMP5003-47 LVL2, IMP5003-47 LVL3 	
	In addition, one demo case was created for demonstration purposes of all available features and instruments within the new implantology procedure. This demo case is called: "Implant Feature Demo".	
186088731	Burs	With the implant procedure a set of new instruments is introduced.
185245698		The available implant drill sizes are: 2.2, 2.8 and 3.5.
185242472		All burs have depth markings at 4 – 6 – 8 mm.
185433180		Bur sizes 2.2 and 2.8 come is variants for guided and free-hand drilling.
185242372		All sizes come with and without angulation assistance helping the student keeping the right angulation of the drill while drilling.
185433215		The burs are called:
	<ul style="list-style-type: none"> • IM P022 G6+A - size 22 guided, till 6 mm + angle assistance • IM P022 G8+A - size 22 guided, till 8 mm + angle assistance • IM P022 - size 22 free-hand • IM P022 +A - size 22 free-hand + angle assistance • IM P028 - size 28 free-hand • IM P028 +A - size 28 free-hand + angle assistance • IM T035 - size 35 free-hand • IM T035 +A - size 35 free-hand + angle assistance 	

184996843 185536827	Hand instruments	Two new depth gauges are introduced for measurement of the depth of the implant preparation. The depth gauges are called: <ul style="list-style-type: none"> • Depth GA - depth gauge without angle assistance • Depth GA +A - depth gauge with angle assistance
185990926 182548553 186323486	PRO700 tongue	A tongue is added to the PRO700 model. The tongue is haptic. It is possible to move the tongue with the mirror for better access to the teeth.
185851660	PRO700 background color	The background color in the PRO700 model is updated to the default red/maroon color, like other models have.
186070661	Content catalogue	The content catalogue is updated with new cross-sectional views for the manual dexterity blocks.
186425284	Content catalogue	The rubrics are added to the content catalogue as a separate chapter.



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