

simodont

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What is new in v4.14

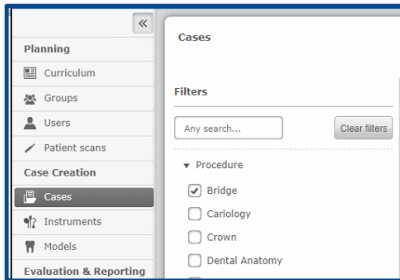
Simodont Courseware Release v4.14



WHAT IS NEW IN V4.14

Nissin Dental Products is pleased to inform you of the new software release version 4.14. This document is a short summary of the highlights in this release and what it offers you as a Simodont user. For the complete list of changes please refer to the Release Notes.

New functionality



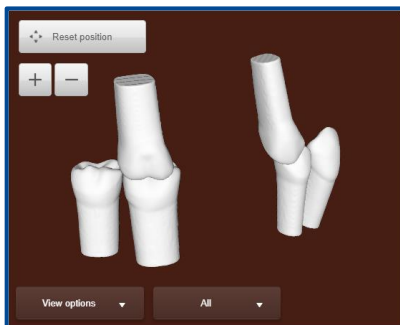
Bridge procedure

The v4.14 release introduces the Bridge procedure

The bridge procedure has a lot of similarities to the Simodont crown procedure, but has a fundamental difference in the fact that it now supports two main focus teeth instead of one. To sum up what the differences are in the Simodont courseware:

The Simodont now offers:

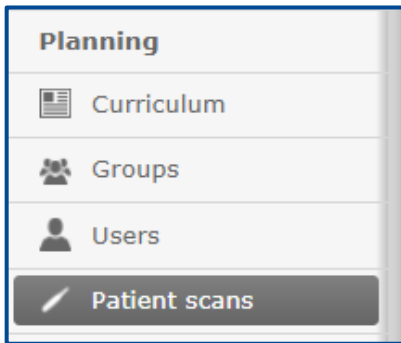
- Two main teeth to prepare, two active adjacent teeth and two antagonist teeth if available in the model.
- Plugs at the empty positions between the selected main teeth in the model.
- The long axis and outline on both main teeth when activated.
- The ability to switch a glass grid between the two main teeth in order to assess the angle of the walls of both teeth.
- One snapshot containing the state of the total model, meaning it contains the state of all prepared teeth.



New Evaluation page viewer options

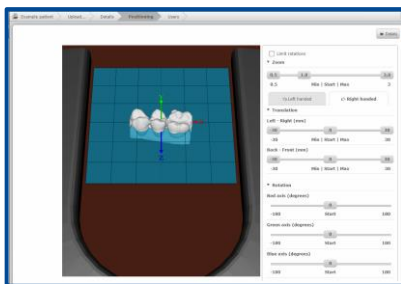
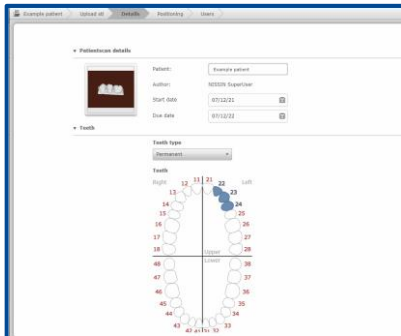
Partly due to the introduction of the Bridge procedure, the viewer options on the Evaluation page in the Course manager have been extended. It now shows/offers:

- All active drillable teeth of a model, meaning the main, adjacent and antagonist teeth in one viewer. Before, the viewer only showed one main tooth. Thereby it is now possible to not only assess the main prepared teeth, but also to inspect the damage on the adjacent teeth.
- The possibility to toggle the visibility of the main, adjacent and antagonist teeth. Thereby it is easier to inspect the preparation.
- A semi-transparent model option, but only when this option was enabled in the case. This is useful for the assessment of endodontic access cavity cases.
- Downloading an STL file containing all drillable teeth from the model in their relative position. This allows the main, adjacent and antagonist teeth to be seen in one view in any third party tool that supports STL files.
- Downloading the STL files from the predefined stages of an attempt. Making it possible to load these files in any third party tool that supports STL files.

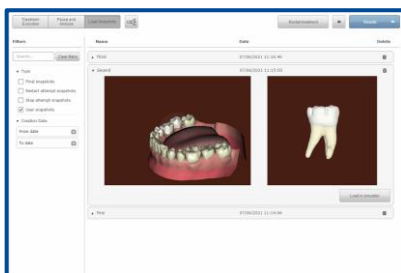


Patient scans page

The v4.14 introduces a new page for the patient scan workflow. The patient scan workflow is considered a key feature of the Simodont, but was also found to be not really user friendly. To give it a more prominent position in the software and to allow an entirely new user workflow, it was decided to design a dedicated page for patient scan use. To sum up all improvements:



- There is no need to create patient specific cases anymore in order to upload patient scans. Patient scans can be directly uploaded using the new Patient Scans page.
- The new page offers a preview of the scan before it is assigned to a user.
- The new page allows positioning of the scan and limiting the model movements like is done in regular cases.
- Gaps in the patient scan due to the scanning itself are automatically closed which improves the final shape of the model.
- It is now possible to assign the scan to one or multiple users in one selection pane. Thereby it is no longer needed to upload the same scan multiple times in case it needs to be assigned to more than one user.
- A case tile image of the model is automatically created by the software, but can be altered by the user in case preferred.
- Larger volumes of patient scans are allowed. Thereby it is now possible to import scans of bridge cases into the Simodont. The volume is now suitable for 6 to 7 teeth in a row.
- The orientation of the scan is automatically optimized to reduce the size of the scan's bounding box. This improves the performance of the model in the Simodont and it avoids unnecessary refusal of scans due to unfavorable bounding box sizing.



New load snapshot menu

The entire "load snapshot" menu on the Simodont was redesigned to solve various issues related to the loading of snapshots. The improvements are:

- The menu now shows the snapshots with a larger image of the preparation and on v3 systems (Simodont serial numbers 300 and up) also a preview of the 3D model is shown. This makes it a lot easier and faster to pick the correct snapshot as it is unnecessary to actually load the snapshot in the simulator to see a preview.
- The instrument is hidden in the preview such that it is no longer blocking the view on the model.
- It is now possible to delete snapshots, allowing the user to keep the list of snapshots clean.
- Default names of automatically taken snapshots are more intuitive, referring to when the snapshot was taken (for example when stopping the case or restarting the treatment).

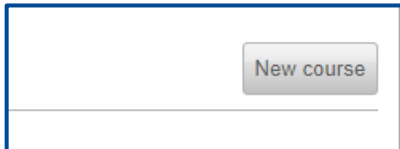
Improved functionality



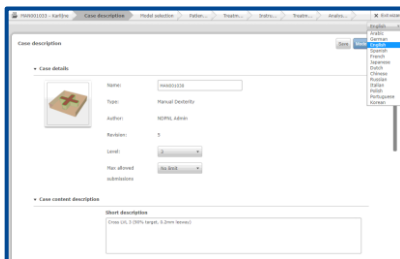
Improved Curriculum Planner usability

Various UI optimizations were implemented for the curriculum planner to give a better overview when courses with a short time span are planned. For example, various courses of one hour in a day. From this release on, the calendar can be viewed in month, week, day and hour view.

In addition it is now possible to use the mouse buttons to zoom and scroll through the calendar.



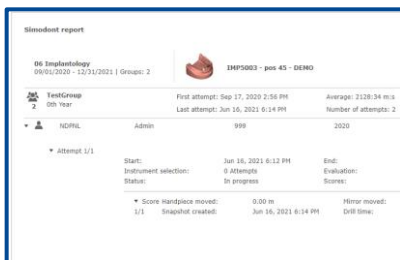
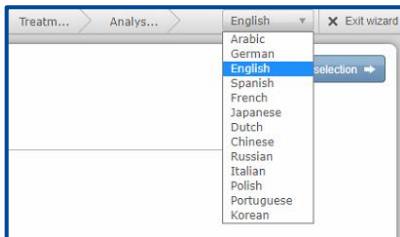
Also a "new course" button is now available to add new course in addition to the double clicking in the calendar. This is especially helpful to add new courses in an already crowded calendar.



Easier language switching for case content

A language switch is now made available inside the Case Editor to switch to another language for specifically the case content. In the past, the language that the user selected at the login page of the Course Manager was also the language in which the case content was created. In order to switch to another language a user had to logout and login again with the other language.

Now, switching the case content language is done directly inside the case editor. Note that switching to another case language will NOT affect the program language of the software. Program language selection is still done at the login page of the Course Manager.



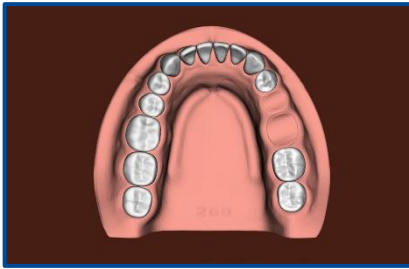
Improved Reporting usability

The Reporting page has a few usability improvements:

- Records are now by default collapsed per attempt. Only the final records of an attempt are shown and the rest is collapsed. This makes it easier to find the results.
- Names of automatically taken snapshots are made more distinctive. Before, all automatically generated snapshots were called 'final state-snapshot'. Now, snapshots have names based on the event that triggered making the snapshot. For example a stop case event, restart treatment event, or submit event.



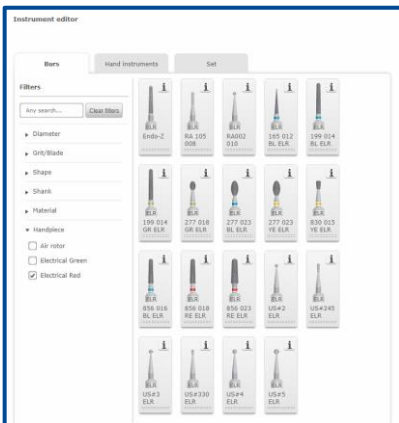
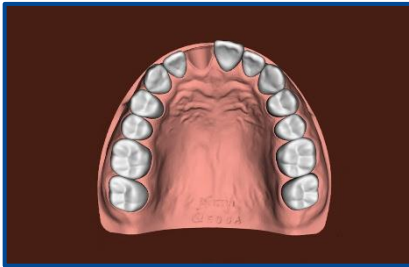
New content



Bridge cases

Three new bridge demo cases are added to show the different features of the new bridge procedure:

- **PRO200-4547**: bridge case for teeth 45 to 47 in PRO200 model
- **PRO500-1221**: bridge case for teeth 12 to 21 in PRO500 model
- **BRG011416**: bridge case for new 18_28_01_MC_J_STCatA_LDI_01 model



New burs with the electrical red handpiece

In this release also 16 burs are added to the library. These burs already existed for the airrotor handpiece, but were now put into the electrical red handpiece, which also allows variable speed. The newly available burs are:

- 165 012 BL ELR
- 199 014 BL ELR
- 199 014 GR ELR
- 277 018 GR ELR
- 277 023 BL ELR
- 277 023 YE ELR
- 830 015 YE ELR
- 856 016 BL ELR
- 856 018 RE ELR
- 856 023 RE ELR
- US#2 ELR
- US#3 ELR
- US#4 ELR
- US#5 ELR
- US#245 ELR
- US#330 ELR



New upper jaw model with natural sound teeth

1 new upper jaw model with all sound teeth is introduced.

- 18_28_01_MC_J_STCatA_LDI_01

The new model is a complete upper arch, containing all sound natural teeth numbers 18-28 based on the 18-23_01_SND_J_STCatA_LDI_01 model. This model is suitable for the crown, bridge, cariology and endo access cavity procedures.

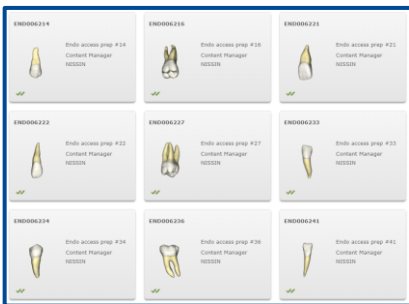


PRO200 and PRO500 models

Renewed versions of the PRO200 and PRO500 models are now available such that they support the bridge procedure and can show plugs.

Besides bridge, these models are also suitable crown and cariology procedures.

IMPORTANT NOTE: They are replacements of the existing PRO200 and PRO500 models. Although the previous versions of the models will still work in the v4.14, it is recommended to update cases to these new models as any future development will be done only for the new models.



Several new demo cases

Several new demo cases for the endo access cavity procedure and dental anatomy procedure are made available to highlight the existence of certain models and possibilities.



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