

# Northstar Release Notes

---

## Version 1.2.3

- ❖ [NORTH-490] Added ability to check all as normal/abnormal to ROM in Physical/Neurological.
- ❖ [NORTH-491] Updated narrative impairment reports to show correct motion impairment values instead of regional impairment values.
- ❖ [NORTH-494] Updated history graphs for inclinometry to always show values going up from the X-axis.
- ❖ [NORTH-509] Updated PDL tables in narrative reports to display decimal places correctly.
- ❖ Added the ability to authorize the software over the internet using a serial number and set this as the default authorization method.

## Version 1.2.2

- ❖ [NORTH-389] Added Grip Impairments.
- ❖ [NORTH-415] Updated to current DOT exam document.

## Version 1.2.1

- ❖ [NORTH-389] Added Grip Impairments.
- ❖ [NORTH-415] Updated to current DOT exam document.
- ❖ [NORTH-480, 479, 478] Additional Active Directory logging.
- ❖ [NORTH-393] Added log to when converting databases from Tracker 5.
- ❖ [NORTH-380] Added drop-down calendar to Birthday's similar to the Visit date drop-down.
- ❖ [NORTH-368] Rearranged Muscle Test History narrative report table's labels for readability.
- ❖ [NORTH-386] Changed default setting values for Grip and Pinch tests.
- ❖ [NORTH-395] Moves the SFG MAX label/field under the Static Gauge in Settings – Device.
- ❖ [NORTH-446] Removed the AD Check message on splash screen.
- ❖ [NORTH-409] Fixed bug that would affect the Impairment adjustment/modification value.
- ❖ [NORTH-410, 397, 394, 375, 369] Other Bug fixes and UI Improvements.

## Version 1.2.0

- ❖ [NORTH-329, 363] Impairments module added. It can be found in the Analysis screen.
- ❖ [NORTH-330] The default INC help video on the Static category.
- ❖ [NORTH-365] Fixed bug where Isometric ISO tests did not show details in the narrative report.
- ❖ [NORTH-362, 358, 345] Addition of SFG MAX device testing. The device can be selected in the Device Tests under STA – Static Strength (after entering a Serial Number for the SFG MAX device in the Devices menu).
- ❖ [NORTH-335] Update name of “Hand Switch” to “End Test Switch”.
- ❖ [NORTH-351] Added Pre/Post module to custom muscle tests.
- ❖ [NORTH-269] Removed Auto-run.
- ❖ [NORTH-364] Switched out Northstar manuals to a web link. Accessing the User Manual in the Help drop down menu opens a web browser to the manuals.
- ❖ [NORTH-370] Fix a bug related to the Collect Usage Statistics/Allow Notifications in General Settings. The options to check the boxes are removed.
- ❖ Renamed “Instrument” to “Device” throughout the UI for clarity.
- ❖ Slightly increased the resolution of narrative report graphs.

## Version 1.1.5

- ❖ [NORTH-357] Add Active Directory capability.
- ❖ [NORTH-350] Reintegrate Tracker 5 database importer (Theia) to the setup wizard.
- ❖ [NORTH-346] A bug was fixed that displayed a false error with Revulytics during startup.

## Version 1.1.4

- ❖ [NORTH-339] Color change for deficit numbers in reports.
- ❖ [NORTH-339] Color change for Match: NO in Functional test reports.

## Version 1.1.3

- ❖ [NORTH-323] The image highlighting device serial numbers within the *Settings – Instruments* form has been updated to reflect our most current labels.
- ❖ [NORTH-326, NORTH-327] Various improvements to the Revulytics functionality to better handle a lack of internet connection. In addition, the remaining duration of customer support plans is now tracked via a new property.
- ❖ [NORTH-328] The software will now send an additional message to Iris when exiting an instrumented test form to ensure any connected Echo devices are fully disconnected.

## Version 1.1.2

- ❖ [NORTH-286] The DOT Physical Exam has been updated to display a warning message stating that the exam is outdated. A link is provided to the proper website where more up-to-date forms can be found.
- ❖ [NORTH-317] Updates have been made to the usage data statistics and notification messages.
- ❖ [NORTH-318] The *Neck Bending* posture test has been renamed to *Neck Lateral Flexion*.
- ❖ [NORTH-319] The max allowed force for Muscle Tests has been increased to 200 lb.
- ❖ [NORTH-320] Web links have been updated throughout the software. Obsolete links have been updated to use current links and applicable links have been updated to use HTTPS URLs.
- ❖ [NORTH-321] The *Hand switch* instrument in the *Settings – Instruments* frame has been renamed to *End Test Switch*. On top of this, devices will now disconnect after testing them with the *Test* buttons.
- ❖ [NORTH-322] Values recorded by the main Inclinometer will now be registered if the second Inclinometer is desynchronized during dual Inclinometer tests. Previously the values would be discarded but now the values will be entered in the order they were registered once the Inclinometers resynchronize.
- ❖ [NORTH-325] A bug has been fixed which caused the database importer (Theia) to trigger many unexpected errors.

## Version 1.1.1

- ❖ [NORTH-283] Images in the Setup Wizard screen now appear with correct transparency.
- ❖ [NORTH-285] If there is data to show, the *% Diff* column (which displays bilateral differences) now appears in the narrative summary table for all Isometric and Muscle tests, including spine/trunk tests.
- ❖ [NORTH-299] Narrative summary tables for Isometric and Muscle tests will hide any columns with no data to report.
- ❖ [NORTH-301] Headings in the *Patient Information* narrative section were updated to remove redundant wording.

- ❖ [NORTH-303] The caption for the validity column in the *Reliability of Effort* narrative item was simplified to *Valid*.
- ❖ [NORTH-306] The character limit for the Patients Complaints Location field was expanded to 4000 characters.
- ❖ [NORTH-310] A dash no longer appears when a value between 359° and 0° is registered from the inclinometers. Now the value just appears as 0° instead of a dash.
- ❖ [NORTH-311] Range of Motion test screens handle large inclinometer values differently. Values greater than 359° are now accompanied by warning text/colors and an error message.
- ❖ [NORTH-314] Empty *Pain Evaluation* headings should no longer appear in narrative reports.
- ❖ [NORTH-315] The criteria used to detect calibration errors were updated to accommodate recent changes to our Echo instrument firmware (v1100).

### Version 1.1.0

- ❖ [NORTH-174] Patients and Visits can now be deleted.
- ❖ [NORTH-271] Narrative reports for instrument tests have been cleaned up. Columns for reps that were never tested are now hidden, and many unimportant test settings have also been removed.
- ❖ [NORTH-272] The software now repositions itself if it opens up off screen after a multi-monitor display configuration has changed.
- ❖ [NORTH-277] Various prompts have had their button captions clarified to better convey what action will be performed when clicked.
- ❖ [NORTH-279] A summary has been created for the Validity SLR test in the summary section of the narrative reports.
- ❖ [NORTH-280] A bug with paragraph line breaks not showing correctly has been fixed within the *Narrative Expert* section.
- ❖ [NORTH-281] Usage data statistics and notification messages have been introduced. Users have the option to turn these on and off at any point from the *Settings – General* section.
- ❖ [NORTH-282] A bug preventing auxiliary functional and observational data from showing in the reports has been fixed.

### Version 1.0.3

- ❖ [NORTH-185] Reports can now be created as PDF files. When in the Reporting section of Northstar the user can select between generating reports as either RTF or PDF files.
- ❖ [NORTH-230] The Northstar Data Importer now displays error messages with JTECH contact information.
- ❖ [NORTH-248] Medical necessity statements can now be included within reports.
- ❖ [NORTH-256] Fixed bug where errors would pop up when generating reports while Northstar was maximized.
- ❖ [NORTH-265] VO<sub>2</sub> values are now displayed with their corresponding units (*L/min*).
- ❖ [NORTH-266] Users now have the option to restore their devices' calibrations to their factory calibration from the full calibration menu.
- ❖ [NORTH-267] Changed history tables in the range of motion test reports to display Norm Difference values instead of % of Norm.
- ❖ [NORTH-270] Test sequences are maintained in the test hopper for patients when switching back and forth between the testing section and other parts of the software.

## Version 1.0.2

- ❖ [NORTH-86] Individual fingers and joints can now be disabled within the *Fingers Complete* test. This causes them to be skipped over while collecting data.
- ❖ [NORTH-200] The questionnaire frame now handles invalid data in a more intuitive manner.
- ❖ [NORTH-228] When importing complaint intake data from a Tracker 5 database, the onset data is better handled.
- ❖ [NORTH-231] New links to our support tools website exist within the *Help & Support* section and the installed Windows start menu shortcuts.
- ❖ [NORTH-235] Improved the alignment of various controls within material handling test frames.
- ❖ [NORTH-237] Updated the credits listed in the about form.
- ❖ [NORTH-239] The *Functional Test Assistant* (FTA) bar should now always be visible when unlocked. Previously it would sometimes be invisible upon startup.
- ❖ [NORTH-241] The main navigation buttons now appear highlighted when selected.
- ❖ [NORTH-244] Patients are now sorted by last-first-middle name within the *Patients* and *Open Patient Visit* forms.
- ❖ [NORTH-245] Importing default contact data from another Northstar database no longer causes errors.
- ❖ [NORTH-247] Blank pages should no longer appear after the cover page.
- ❖ [NORTH-250] Databases can now be opened from within the main *Databases* frame.
- ❖ [NORTH-251] Tweaked the layout of the *Add Database* frame to be more intuitive.

[NORTH-253] Contacts imported from another Northstar database are now flagged as conflicting only when both the contact and company name exactly match.

## Version 1.0.1

- ❖ [NORTH-3] When an invalid link is selected from the Recent Reports section on the Narrative Main Frame, the user will now be prompted if they want to remove the link.
- ❖ [NORTH-91] When a test row is marked as the patient's *Ability* in Material Handling tests, the *Assessment PDL* value will be automatically selected based on the test row's load and the frequency of the test. If the user doesn't agree with the automatically selected value, they can always override it.
- ❖ [NORTH-93] The *Functional Assessment* tables in *Analysis* now have a new *Match* column identifying whether the patient's ability for a given test is equal to or greater than the corresponding goal. This also appears in the corresponding narrative section.
- ❖ [NORTH-145] Database disconnects now produce fewer error messages afterward, and a new error icon appears next to the database name until it is closed.
- ❖ [NORTH-167] The mouse cursor should now change to the busy, hourglass cursor when the Northstar setup app is launched from the physical media AutoRun app.
- ❖ [NORTH-169] Addressed the issue with the Northstar Data Importer not including Tracker 5 Complaint Related Medical History - Exam notes
- ❖ [NORTH-171] There should now be a Windows taskbar item for the Northstar application during the entirety of its execution. This includes program startup when the splash and license screens appear.
- ❖ [NORTH-175] The checkbox settings for *Narrative Option B* will be maintained across all uses of Northstar. They will be all checked by default and will save their checked states when the user changes them.
- ❖ [NORTH-177] Theia's logging functionality has been revamped to more clearly indicate when significant errors occur during the import process. Exceptions that occur while processing a

section now appear in the main *Import Notes* tab, which should include cases of missing/corrupt source tables. If an import process encounters such errors, the final message to the user also indicates as much, and the overall progress bar will now appear in red as well.

- ❖ [NORTH-178] The Setup Wizard no longer prompts users to install Tracker Freedom drivers.
- ❖ [NORTH-180] Transgender is now an option for the patient's gender.
- ❖ [NORTH-181] Addressed the issue with Pain Scale History not loading correctly in the Analysis – History section.
- ❖ [NORTH-184] Displaying multiple error messages no longer makes the software disappear but continue to run invisibly.
- ❖ [NORTH-187] The image in the *Settings – Instruments* page has been updated to display current instrument labels and JTECH's current address.
- ❖ [NORTH-188] When creating a new database, the location field is automatically populated with the Public Documents path. The user is still able to change the path if they want and the database will save in their selected path.
- ❖ [NORTH-196] Fixed bug that prevented the PDL Chart from generating in the reports.
- ❖ [NORTH-199] When running the software from a remote computer (via file share), the software no longer displays errors related to retrieving the site code.
- ❖ [NORTH-210] The main Northstar app icon was updated, as was the icon for Theia (the data import app).
- ❖ [NORTH-220] Sustained Grip test data details are now output correctly in narrative reports. Algometry and Pinch narrative items are now tied to their correct license module.

## Version 1.0.0

- ❖ Initial release!