

Version 21.FP4

## Updates in Novapoint Road

For changes related to specific countries/configs check these links:

[Denmark](#) | [Finland](#) | [France](#) | [Norway](#) | [Sweden](#)

NOTE: For updates on the Intersection task please [go here](#).

### Road task

CHANGED: Tasktemplate naming for "From Existing Model" to specify the filename intended for each template (\*.DMI) or (\*.GEN).

FIXED: Exported PARAM would not import in some cases because of line-shift in the file.

FIXED: Road tasks created without using automatic crossfall/superelevation calculation did not get the "Usage" checkbox for Crossfall left/right set in the road surface properties. Resulted in crossfall not being drawn in longitudinal profile.

FIXED: Upgrading a roadtask not build in Novapoint 19.30 or later did not get the correct conversion rules in the task.

### Conversion rules

CHANGED: Landscaping surface feature changed from TrafficSeparator to FillSlope.

CHANGED: The inner slope surface attribute 'layerDescription>name' now has the value 'PAVEMENT\_INNER\_SLOPE'. Attributes for texture and generalMaterialTypes have been removed as they will never be correct.



### Build model

IMPROVED/FIXED: New methodology to build 3D results gives the model high/significant speed improvements in step 3 for most models compared to NP21.FP3 and earlier. No models should be slower with the new solution.

IMPROVED/FIXED: 'Generic attributes' from Task Settings were not applied when building from the old road tool (Road.exe)

IMPROVED/FIXED: Editing the Task Settings did not trigger a rebuild of the road task when pressing "Finish" on the task.

NEW/IMPROVED: Better warnings/information to user when there is much data to process.

- Performance notification when exceeding 15000 cross-sections.  

- Performance notification when amount of data in cross-sections are high (more than 1500 objects as average)  


NEW/IMPROVED: Better handling when there is too much data to handle.

- Data missing in the cross-section was mentioned only once as "Truncation". Now lists all cross-sections and

group them.



- Number of cross-sections exceeding 30000 just stopped the build at step 1. Now gives a warning in process info similar to when exceeding 15000 cross-sections.

IMPROVED/FIXED: Fewer warnings/messages with “Errorcode 400028; Splitting surface in two or more surfaces.”

CHANGED/FIXED: When turning solids OFF in roadmodel settings:

- Inner slope surface is now showing. It was not showing in the FP3 releases.
- Landscaping surfaces were missing.

FIXED: Tight corners with overlapping cross-sections in 3D now has improved results and works OK again.

FIXED: Issues with vegetation removal solid not created correctly.

FIXED: Some cases of missing pavement solids.

FIXED: Many illustration symbols in the cross-section could cause the cross-section results to change.

FIXED: Cases with overflow of data causing the cross-section to fail.

FIXED: Deep blasting vertical line did go too far in some cases.

FIXED: Roadtasks created before NP21.FP3 had issues for the qualityfill below terrain for situations with soilremoval (topsoil, vegetation, softsoil removal). Qualityfill ended up as a cut feature.

FIXED: Issues with softspot removal and the 3Dresults when using soiltype [12] for the subgrade surface.

## Quantities

NEW/IMPROVED: New dialog for quantity reports.

- Option for only summary report (only for Novapoint quantity reports)
- User-defined fixed interval
- As calculation interval
- Combined report with no sectioning



IMPROVED: Performance/speed when producing the report is generally improved.

FIXED: Summary report is back as an option in the dialog. Use the checkbox for summary report.

FIXED: Rockcut < 1m thickness was deducted from the overall rock quantity column in the tab for Rockcut < 1m.

FIXED: Cases of crash when extracting the report

## Cross-section Viewer

IMPROVED: Filtering data in the cross-section for better performance and to remove unnecessary data. Removed polygons representing solids from corridor design modules, and points from stringlines.

IMPROVED: Increased speed when zooming with much data in the cross-section (illustration objects from task, illustration symbols or other).

IMPROVED: For non-reserved road tasks it was possible to write any chainage to view it, but it had nothing to show. Now gives warning about the need to reserve task first.

## Road surface dialog

IMPROVED/CHANGED: Number of tablerows extended to 2000 pr. surface. Previous limit was 500 rows.

IMPROVED/FIXED: Boundary table would revert "Object" column to default English text when using other configurations than International/English.

## Advanced Pavement

IMPROVED: Deep blasting depth was only possible to set with one decimal accuracy. Now 3 decimals are stored.

FIXED: Dialog did not set the alignment name when using alignment as surface edge.

## Other dialogs

IMPROVED: Better naming of the symbols in dropdown list for dialog "Illustration objects in Cross-sections".

FIXED: Draw Sketch CS drawings from the road task to PDF did set the legend correctly.

## Alignment Design

IMPROVED: When changing fixation from 'Fixed' to 'Partially fixed' the initial placement of the fixation point (triangle) is at the middle of the element. Previously it was put at the end of the element.

IMPROVED: Performance optimized for read/write of geometry to Quadri.

## Other CAD functionality

IMPROVED/FIXED: Vehicle Track Analysis paths are now editable.

FIXED: When creating user-defined template it would crash if not a user-defined "Standard" was set in the dialog.

FIXED: Issues with draw CS failing.

FIXED: Draw LP with terrain profile offset were missing functionality in NP21. Now they are now possible to set in the Draw LP dialog.

FIXED: Draw Road model did not always remember all the layernames when setting this up in the dialog.

## Presentation Setup in Base

IMPROVED: "Default" presentation setup did not draw Kerb surface when the feature did not have attribute

generalMaterialType set.

## Export from Base

FIXED: Export to LandXML with Parabolic curves in the vertical geometry did not work