



Uppsala January 27th, 2025

Software Release Notes NPX™ Map & NPX™ Map CLI Version 1.0.1

Release version v. 1.0.1

Description version 1.0.1

NPX™ Map & NPX™ Map CLI v1.0.1 are significant releases that replace the current NPX™ Explore HT & 3072 software. The underlying mechanisms and QC logic remain the same, while adding support for the new Olink® Reveal product. NPX Map™ will also allow users to perform pre-processing from within the application for certain instruments.

NPX™ Map is compatible with projects created in previous versions of NPX™ Explore HT & 3072.

Features/updates in the software include:

- Support for the new Olink® Reveal product
- Panel Data Archive – a new feature to import support for new reagent lots without updating the software version
- Pre-processing through graphical user interface for supported FASTQ output instruments
- Support for Olink® Explore HT sequencing on Ultima Genomics Inc., UG100™
- An updated user interface for a more modern look and feel
- More intuitive user workflows and better guidance for new or inexperienced users
- Export of data in CSV format (NPX™ Map only)
- Additional information in the NPX file and the Extended NPX file
- New QC flag for deviating incubation control ratio

Features in NPX™ Map Version 1.0.1

Table 1 includes visible features and changes for NPX™ Map Version 1.0.1

Feature/changes	Description and recommended action
Support for the Olink® Reveal product	Optional product type when creating a new project.
Panel Data Archive concept - support for importing new reagent lot data	NPX™ Map allows for importing the necessary data through a Panel Data Archive instead of having to update the software version.



Support for embedded pre processing of non-Illumina instruments

Pre-processing can now be performed within NPX™ Map, without the need for ngs2counts, for the following instruments

Instrument	Data format	Qualified workflow
Element Biosciences, AVITI™	FASTQ	Olink® Reveal
MGI, DNBSSEQ T7™	FASTQ	Olink® Explore HT
Ultima Genomics Inc., UG100™ (only available using NPX™ Map CLI)	Ultima specific	Olink® Explore HT

Updated user interface	NPX™ Map features a new user interface. While conveying a more modern look and feel, it also features new ways of navigating between plates.
New workflow for creating new projects	The process of creating a new project has been simplified, with a step-by-step guide for the user to connect sequencing data to plate layouts.
QC view <i>Run Unit Details</i>	A new QC view that combines information from the NPX™ Explore HT & 3072 Plate Layout view, Run Log view and the <i>Selection Information</i> pane.
QC view <i>CV Information</i>	Replaces CV Table view and Sample Control Variation view.
Support for in-project plate layout swaps	In the Run Unit Details view, it is now possible to switch between different imported plate layouts through a dropdown selector without having to re-import the run data.
Support for multiple projects on the same plate	Manually create a single plate layout file with (optional) columns for project name and sample matrix. Then create one project in the software per customer name/sample matrix and use the same plate layout file in each.
Export of data in CSV format	Given that a project holds 1,000,000 datapoints (about 1 Olink® Explore HT kit or 11 Olink® Reveal plates) or less, the NPX file and Extended NPX file can be exported in CSV format.
Additional information in the NPX and Extended NPX file	<p>New columns have been added</p> <ul style="list-style-type: none"> • SoftwareVersion • SoftwareName • PanelDataArchiveVersion • PreProcessingVersion • PreProcessingSoftware • InstrumentType



Updates to the Analysis Report	Added details about software name and software version. Copyright footer included.
New QC flag for deviating incubation control ratio	Based on internal control counts ratios (inc/amp, inc/ext, amp/ext). It triggers when the internal control ratios deviate too much from the expected ratio (based on PCs and SCs). Raises WARN for customer samples and FAIL for external controls.

Features in NPX™ Map CLI Version 1.0.1

Table 2 includes visible features and changes for NPX™ Map CLI Version 1.0.1

Feature/changes	Description and recommended action
Support for the Olink® Reveal product	Optional product type when creating a new project.
New QC Flag	Based on internal control counts ratios (inc/amp, inc/ext, amp/ext). It triggers when the internal control ratios deviate too much from the expected ratio (based on PCs and SCs). Raises WARN for customer samples and FAIL for external controls.
Additional information in the NPX and Extended NPX file	New columns have been added <ul style="list-style-type: none"> • SoftwareVersion • SoftwareName • PanelDataArchiveVersion • PreProcessingVersion • PreProcessingSoftware • InstrumentType
Panel Data Archive concept - Support for importing new reagent batch data	Instead of having to update the software to get support for a new reagent batch, NPX™ Map CLI allows for importing the necessary data through a Panel Data Archive.
Support for Ultima Genomics Inc., UG100™	Pre processing of Ultima sequence data can now be performed within the NPX™ Map CLI.
Additional information in CLI Data Export File	Additional information/ new columns <ul style="list-style-type: none"> • RunIdentifier • AssaySystematicEffect • BlockSystematicEffect



Known limitations at launch

- It is not possible to open a project in NPX™ Map by double- or right-clicking on a saved project in file explorer. Use “Open project” from the menu in NPX™ Map software.
- When pre-processing has been performed using NPX™ Map, then NPX™ Map must be used as analysis software. Counts file folders generated using NPX™ Map cannot be imported into NPX™ Explore HT & 3072. This affects Ultima Genomics Inc., UG100™, MGI, DNBSEQ T7™ and Element Biosciences, AVITI™.
- *%passed* column in Quality Control Summary not included in this release

Customer documentation

The NPX™ Map User Manual and NPX™ Map CLI technical information are updated and available at <https://olink.com/software/download> **password:** bg7Y0??yg89&!

Current version of NPX™ Map User manual and NPX™ Map CLI technical information is 1.0.1

Software download

The new versions of the NPX Map products and the panel data archive are available to download from the Olink® Software webpage: <https://olink.com/software/download> **Password:** bg7Y0??yg89&!