

NovaSeq 6000Dx Software Release Notes

NovaSeq 6000Dx Operating Software
NovaSeq 6000Dx Service Software
Real Time Analysis
Universal Copy Service
Firmware
Illumina Run Manager

Introduction

The NovaSeq 6000Dx Software Release Notes detail new features, optimizations, defect repairs, and known issues for the Illumina NovaSeq 6000Dx Sequencing System.

For more information on the NovaSeq 6000Dx Sequencing System and compatible applications with System Software Suite v2.4.0 and DRAGEN Server Software (Illumina Run Manager) v1.6.393 visit the [NovaSeq 6000Dx Support Page](#).

To install compatible IVD applications reach out to your Illumina Field Representative or Tech Support to schedule an on-site visit.

To install compatible RUO applications visit the [NovaSeq 6000Dx Software Downloads Support Page](#).

I. Illumina NovaSeq 6000Dx Software Suite 2.4.0

This package includes the following:

| Instrument Suite Installer Software | Version |
|--|----------------|
| NovaSeq 6000Dx Operating Software | 2.4.0 |
| NovaSeq 6000Dx Service Software | 2.4.0 |
| Real-Time Analysis (RTA) | 3.4.6 |
| Universal Copy Service | 2.9.0 |
| Firmware | 1.26.10 |

| DRAGEN Server Software* | Version |
|--------------------------------|----------------|
| Illumina Run Manager | 1.6.393 |

Release Date: April 2024

1.1. NovaSeq 6000Dx Operating Software

DEFECT REPAIRS

- Fixed issue where the Instrument Operating Software is not able to send data to BaseSpace Sequence Hub without specifying a separate external storage location.
- Addressed issue where Xp workflow was not supported in RUO mode when selecting runs from the Illumina Run Manager.
- Fixed issue where SP reagent reverse complement setting was improperly set
- Addressed UI issues related to displaying Illumina Run Manager windows in the NovaSeq 6000Dx Operating Software.
- Fixed issue with sensitivity of switching between RUO and IVD modes so that the UI behaves like a toggle switch.

KNOWN ISSUES

- Sample sheets are not copied to the run output folder if an improper path is defined in the LIMS file based json file.
- In certain instances when a user session times out, the Illumina Run Manager dashboard screen may be displayed upon sign in instead of the NovaSeq 6000Dx Operating software home screen. If seen, navigating to the about screen then selecting exit will resolve the issue.

1.2. NovaSeq 6000Dx Service Software**DEFECT REPAIRS**

- Fixed issue with Impedance test failing with null value error
- Fixed issue with Flo Calibration test generating NaN results in certain conditions

1.3. Real Time Analysis (RTA)

- Same version as prior released software – no changes made

1.4. Universal Copy Service**OPTIMIZATIONS**

- Added support for CRC32 Checksums in Universal Copy Service

DEFECT REPAIRS

- TBD

KNOWN ISSUES

- TBD

1.5. Firmware

- Same version as prior released software – no changes made

1.6. Illumina Run Manager**NEW FEATURES**

- Added support for applications that utilize DRAGEN versions above 3.9.5 in Illumina Run Manager
- Improved UI display of longer application titles in app cards and updated app cards to make them “responsive” to user actions

DEFECT REPAIRS

- Resolved issue causing analysis in Illumina Run Manager to be stuck in progress during power outages
- Improved support for custom kits in Illumina Run Manager
- Enhanced requeue analysis experience
- Resolved user experience issues in Run Planning

KNOWN ISSUES

Analysis run results are not displayed in run details for runs started by Sequencer Operator users. In order to see the run results for runs that were started by users with Sequencer Operator permissions only, users must navigate to their Network Attached Storage location.

II. Illumina NovaSeq 6000Dx Software Suite 2.3.1

- **Release Date:** September 2021

| Software Application | Version |
|-----------------------------------|---------|
| NovaSeq 6000Dx Operating Software | 2.3.1 |
| NovaSeq 6000Dx Service Software | 2.3.1 |
| Illumina Run Manager | 1.2.150 |
| Real-Time Analysis (RTA) | 3.4.6 |
| Universal Copy Service | 2.8.0 |
| Firmware | 1.26.10 |

NEW FEATURES

- Initial release.

OPTIMIZATIONS

- N/A

DEFECT REPAIRS

- N/A

KNOWN ISSUES

- Instrument Operating Software is not able to send data to BaseSpace Sequence Hub without specifying a separate external storage location.
- Sample sheets are not copied to the run output folder if an improper path is defined in the LIMS file based json file.
- In certain instances when a user session times out, the Illumina Run Manager dashboard screen may be displayed upon sign in instead of the NovaSeq 6000Dx Operating software home screen. If seen, navigating to the about screen then selecting exit will resolve the issue.
- Xp workflow not supported in RUO mode when selecting runs from the DRAGEN server.