

NovaSeq Software Release Notes

NovaSeq Control Software 1.7.5
NovaSeq Service Software 1.7.5
Real Time Analysis 3.4.4
Universal Copy Service 1.6.3
Install notes

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Introduction

These Release Notes detail new features, improvements, and known issues for the NovaSeq™ 6000 Sequencing System for improved sequencing robustness. The software can be downloaded from the Illumina software download page and will be queued for download on BSSH for connected systems for customer use. Alternatively, contact your field representative to schedule the upgrade to v1.7.5.

For more information on the NovaSeq 6000, see the NovaSeq 6000 Sequencing System Guide (document # 1000000019358) available on the [NovaSeq 6000 Sequencing System support pages](#).

The software package includes:

- NovaSeq Control Software 1.7.5
- NovaSeq Service Software 1.7.5
- Real Time Analysis 3.4.4
- Universal Copy Service 1.6.3

Prerequisite: NovaSeq Suite Installer v1.7.0 must have previously been installed to the instrument before upgrading to v1.7.5. If a software version previous to v1.7.0 is currently installed, run the v1.7.0 installer before upgrading to v1.7.5

I. NovaSeq Control Software 1.7.5

NEW FEATURES:

- Reagent Leak Detection
 - Sequencing runs that exhibit specific behaviors in fluidic pressure, suggesting a possible reagent leak, will be ended with a run-stopping error
 - Only the impacted side will be stopped if a dual sequencing run is ongoing
 - If a run is stopped due to a suspected leak, the post-run wash will be skipped; a maintenance wash will be required before the next run
 - Software messaging when a leak has been detected will be as shown below:



- Note: Once acknowledged, the error dialogue will disappear, and the user will be returned to the home screen; in this case, please ensure that Tech Support is contacted before a subsequent maintenance wash or sequencing run is started
- Added fluidic pressure logging during post-run wash and maintenance wash

KNOWN ISSUES:

- In rare occurrences, the reagent chiller door sensor warning during Pre-Run Checks may prevent continuation for both flow cell sides (instead of only the failed side) during a dual flow cell run. User is required to exit the workflow and setup runs for both sides again.

II. NovaSeq Service Software 1.7.5

- No changes from previous version

III. Real Time Analysis 3.4.4

- Same version as prior released software – no changes made

IV. Universal Copy Service 1.6.3

- Same version as prior released software – no changes made

Known Bugs:

- If the software is upgraded to NovaSeq Software Suite Installer v1.7, you may experience that large file (estimated to be roughly 10GBs or larger) uploads that take longer than 10 minutes to upload will fail data integrity check and will be queued for upload.
- In rare occurrences, files uploaded to BaseSpace can be truncated when the bandwidth is lower than the recommended specifications in the Site Prep Guide.

V. Manual Install notes

- Prior to performing a manual software upgrade, ensure the following:
 - The system is powered on.
 - The system is not currently performing a sequencing run or system wash.
 - The system is not currently uploading sequencing run data.

- Log in using a Windows administrator account on the NovaSeq, then download the installer from Illumina Support Site and unzip to C:\Program Files\Illumina.
- Run the NovaSeq Software Suite Installer.
- Reboot system as prompted by NovaSeq Software Suite Installer.

Known issues:

- On rare occasions, the installer can fail to communicate with one of the devices on the system in the required time and the software update process will not complete
- If seen, please run the installer package again.
 - If the issue persists, please call technical support for next steps.
- If encountering this issue via BSSH download, please call technical support for next steps