



# **NovaSeq Software Release Notes**

**NovaSeq Control Software 1.6.0**

**NovaSeq Service Software 1.6.0**

**Real Time Analysis 3.4.4**

**Universal Copy Service 1.5.6**

**04-FEB-2019**



## Introduction

These Release Notes detail new features, improvements, and known issues for the NovaSeq™ 6000 Sequencing System. Please contact your field representative to schedule the upgrade to v1.6.0.

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 1.6.0
- NovaSeq Service Software 1.6.0
- Real Time Analysis 3.4.4
- Universal Copy Service 1.5.6

## I. NovaSeq Control Software 1.6.0

### NEW FEATURES:

- Enabled use of the SPv1 flow cells
  - Added SPv1 recipes for 100, 300 and 500 cycle kits
- Added new laser variability file to support SPv1 500 cycle kits
  - Intensity plot will look different in comparison to other run types
- Added pre-run check to confirm Z drive is mounted
- Added configurable default index cycles for Run set up in Software Settings
- Added Release Notes screen to software update workflow

### Improvements:

- Removed maximum index cycle limit
  - Limit is now tied to maximum cycles allowed by kit
- Sample sheet is no longer uploaded when IPD only is selected
- Added more informative error messaging when recipe fragments are missing

### BUG FIXES:

- Fixed bug when no index cycles specified in the custom recipe resulted in using default index cycle specified in the UI
- Fixed bug where Z drive mount would cause initialization error
- Fixed bug with Maintenance Wash when using file-based mode from Settings which caused intermittent wash failures



## II. NovaSeq Service Software 1.6.0

### Improvements:

- Updated laser power threshold to 50 +/- 15 for shutter check during initialization and Pre-Run checks

### Bug Fixes:

- Fixed an issue where software was not monitoring sensors during optics mock Pre-Run check

### Known Bugs:

- If a configuration file is missing, initialization fails but an exception is not displayed

## III. Real Time Analysis 3.4.4

### Improvements:

- Added improvements to PhiX alignment and error rate feature
  - Added feature that allows user to configure default adapter sequence to be trimmed
    - Default adapter sequence is AGATCGGAAG
  - Software now handles short PhiX reads by detecting when basecalling has read through to the read terminating adapter and removes these reads from further per-cycle error rate calculations

## IV. Universal Copy Service 1.5.6

- No changes to this software