

HiSeq Instrument Software Release Notes

HiSeq Control Software (HCS) v2.2.68

Real Time Analysis (RTA) v1.18.66

Recipe Fragments v1.5.21

.Net 4.5.1

Sequencing Analysis Viewer (SAV) v1.8.46

Batch Installer v1.4

BaseSpace Broker v2.5.1

SAV v1.8.46

***For HiSeq® 1000 HiSeq® 1500 HiSeq® 2000
and HiSeq® 2500 Systems***

May 26, 2015

Introduction

These release notes detail the key changes to instrument software components for the HiSeq 1000, 1500, 2000, and 2500 since the package containing HCS v2.2.58, RTA v1.18.64, Recipe Fragments v1.5.14, SAV 1.8.37 and BaseSpace Broker 2.4.1.4 was released.

If you are upgrading from a version prior to HCS v2.2.58, please review the release notes for HCS v2.2.58 for a list of features and bug fixes introduced in that version.

FPGA upgrade to v3.10.3 or later is mandatory prior to the installation of this software package. If you need to update your FPGA version, please contact Illumina Technical Support. FPGA updates must be completed by a trained Illumina staff person. Note: if your HiSeq is already using HCS 2.0.5 or higher, your FPGA has already been updated to 3.10.3 or higher. You can confirm the FPGA version by going to the Menu, About screen in HCS.

HiSeq configuration file settings, with the exceptions of changes made to HiSeqControlSoftware.Options.cfg, will not be preserved through this software update.

Any custom recipe files will be over written by the Recipe Fragments installation: customers should recreate their custom recipes after receiving this update.

The installer will automatically uninstall the existing softwares.

The BaseSpace Send Instrument Health data option setting will be reset by this software install to be "on." Customers should update their BaseSpace Send Instrument Health settings after receiving this update.

Note that for HiSeq v4 runs, there may be a noticeable increase in the reported intensity by cycle displayed in SAV after template generation is completed after cycle 5. This is because after this point, the reported intensities include only clusters included in the final template.

The software package includes:

- HiSeq Control Software (HCS) v2.2.68
- Real Time Analysis (RTA) v1.18.66
- Batch Installer v1.4
- Recipe Fragments v1.5.21 – no change in this release
- .Net 4.5.1 – no change in this release
- Sequencing Analysis Viewer (SAV) v1.8.46 – no change in this release
- BaseSpaceBroker v2.5.1

I. HCS v2.2.68

NEW FEATURES:

- Added support for BaseSpace Onsite (BSO) functionality.
 - Includes an error dialog when the user does not have enough space on BSO.

DEFECT REPAIRS:

- Added a fix for nonbinned v5 Qscore display.
- Fixed the maintenance wash log issue to correctly track wash start time.

II. RTA v1.18.66**IMPROVEMENTS:**

- Improved restart robustness for phasing reporting.
- Added robustness to bcl copy service.
- Removed hardcoded matrix and phasing functionality.
- Removed SaveLocsAsPos and phasing by cycle functionality.

III. Batch Installer v1.4**NEW FEATURES:**

- Updated installer to support HCS v2.2.68, RTA v1.18.66, BaseSpace Broker v2.5.1.

IV. Recipe Fragments v1.5.21

- No changes in this release.

V. .Net 4.5.1

- No changes in this release.

VI. Sequence Analysis Viewer 1.8.46

This version no longer supports Genome Analyzer IIX (GA) run files. GA run files should not use any SAV version later than 1.8.37

- No changes in this release.

VII. BaseSpace Broker 2.5.1**IMPROVEMENTS:**

- Added support for retrieving the space available for a run on a BaseSpace Onsite instance using the GetFileStorageStats API.