

# **BaseSpace Onsite Platform Release Notes**

**For BaseSpace Onsite v2.1**

**October 27, 2015**

## Introduction

These release notes detail the key changes to the BaseSpace Onsite (BSO) operating system and software components since the package containing BSO v2.0. If you are upgrading from a version prior to BSO v2.0, review the release notes for BSO v2.0 for a list of requirements, features, and bug fixes in that version. Please be aware that the system must be updated to v2.0 before the v2.1 update can be applied.

The update to v2.1 may be performed by a trained Illumina staff person or by a customer who follows the step-by-step upgrade procedure ("BaseSpace Onsite Software Upgrade User Guide") document provided on our support website below. Data on the BaseSpace Onsite will be preserved through this software update. To enable BSO functionality with the instruments below, you must have at least the version of that instrument's control software or a newer version:

MiSeq / MiSeq Dx (RUO Mode Only):

The MiSeq Control Software (MCS) must be updated to version 2.6 or newer

NextSeq 500:

The NextSeq Control Software (NCS) must be updated to version 1.0 or newer

NextSeq 550:

The NextSeq Control Software (NCS) must be updated to version 2.0.0.10 or newer

HiSeq 2500/3000/4000:

The HiSeq Control Software (HCS) must be updated to version 2.2.68 or newer

BaseSpace Onsite v2.1 is an optional, but strongly recommended software update. This update should be installed if the customer wants to add any of the additional features and functionality listed below.

Please note, prior versions of the software will not be "patched" or otherwise improved upon, except under extreme or special circumstances. This is to ensure that customers understand that if they choose not to update to this newest version, they understand and accept that fact, which may impact our ability to support their system over time if they wait too long to upgrade, so it is recommended that all BaseSpace Onsite customers always upgrade to the latest software version on their system(s).

You may access:

- The BaseSpace Onsite Datasheet
- These BaseSpace Onsite Release Notes
- The BaseSpace Onsite User Guide
- The BaseSpace Onsite Software Upgrade User Guide

At this link:

[http://support.illumina.com/sequencing/sequencing\\_software/basespace\\_onsite.html](http://support.illumina.com/sequencing/sequencing_software/basespace_onsite.html)

## I. BaseSpace Onsite v2.1

### NEW FEATURES:

- BaseSpace changes (Moving to BaseSpace 3.22):  
[The version number in the parenthesis (x.xx) after each feature below indicates the version of BaseSpace Cloud in which that feature was first released]
  - NeoPrep planning and reporting changes in Prep tab workflow (3.15)
  - Ability to pool NeoPrep libraries (3.15.1)
  - Ability to upload BGZipped FASTQ files on Project Import page for creating samples to support bcl2fastq2 release (3.16)
  - API auto-launch for apps (3.16.2)
  - New download dialogue and options for downloading packages from a Run or App Result details page, using BaseSpace Downloader (3.17)
  - Updated Interop.dll for viewing SAV charts, Updates and Improvements to SAV charts on Run details page (3.19)
  - App Versioning (3.20)
  - NeoPrep v2 report changes (3.21)
  - New Dashboard and Storage Metering (3.22, 3.22.1)
  
- BaseSpace Onsite System and Admin changes:
  - MiSeq and MiSeq Dx (in RUO mode) Instrument Support
  - NeoPrep Support
  - NextSeq 550 Support (Sequencing only)
  - HiSeq 3000 and HiSeq 4000 Instrument Support
  - Ability to recover from system failures not affecting swift drive integrity (disk drive migration ability)
  
- BaseMount Support Changes:
  - BaseMount (<https://basemount.basespace.illumina.com/>) is now supported for BaseSpace Onsite v2.1.
  - Allows users to mount their BaseSpace Onsite account content on a customer linux environment. It can then be used to perform offline analyses with custom workflows, as well as to download user account data via command line interface.
  - See BaseSpace help site for extensive details on BaseMount, including installation and usage instructions:  
<https://help.basespace.illumina.com/articles/descriptive/introduction-to-basemount/>
  
- Analysis App Changes:
  - Disabled and unpublished Novoalign
  - Updated BWA and Isaac Enrichment v2.1 to be Multi-launch apps (i.e. one VM analysis per sample input)
  - New Native and 3<sup>rd</sup> Party Apps:
    - 16S Metagenomics v1.0.1 (bug fix)
    - FASTQC v1.0 (BaseSpace Labs App)
    - FASTQ Toolkit v1.0 (BaseSpace Labs App)
    - Isaac WGS v4.0
    - Kraken Metagenomics v1.0 (BaseSpace Labs App)

- MethylSeq v1.0
- SmallRNA v1.0
- SPAdes v3.5 (3rd Party App)
- TruSeq Targeted RNA v1.0

BaseSpace Onsite HT now has 25 Apps Included with the system.  
(Note the BaseSpace Onsite LT will have 22 Apps)

#### **KNOWN ISSUES:**

- There is a known issue that may occur with very low frequency in which FASTQ generation for HiSeq 3000/4000 sequencing data may hang on FASTQ results upload. If it is suspected that this has occurred, please download the Active Analysis Logs from the Admin page and contact Illumina Customer Support for resolution.
- Enrichment v2.1 Native Apps (both BWA and Isaac) does not support Adapter Trimming for this release. This issue is described in a tooltip message on the Input form for both apps. The note in the tooltip indicates that the user should refer to the BaseSpace Onsite user guide for information regarding alternative workarounds for adapter trimming.
- The Active Storage tab in the BaseSpace Onsite Admin part of the site has incorrect values for the pie chart on the right (Storage Use Per Owner). The calculations for the pie chart slices overestimate the usage per-user. This issue will be corrected in a future release.
- BaseSpace Onsite v2.1 is compatible with IE (10 or higher), Chrome (43 or higher), Firefox (38 or higher), and Safari (8 or higher). Hardware requirements for these browsers can be found on the developer's website. A PC running Windows 7 or greater is required to access the BaseSpace Onsite.