

BaseSpace[®] Onsite LT Platform Release Notes

For BaseSpace Onsite LT Systems v2.1

November 2, 2015

Introduction

These release notes detail the BaseSpace® Onsite (BSO) LT system software components.

To enable BSO LT 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

You may access:

- The BaseSpace Onsite Datasheet
- These BaseSpace Onsite LT System Release Notes
- The BaseSpace Onsite LT System User Guide

At this link:

http://support.illumina.com/sequencing/sequencing_software/basespace_onsite.html

I. BaseSpace Onsite LT Software v1.0

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 LT System and Admin changes:
 - MiSeq and MiSeq Dx (in RUO mode) Instrument Support
- BaseMount Support Changes:
 - BaseMount (<https://basemount.basespace.illumina.com/>) is now supported for BaseSpace Onsite LT System 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:
 - Core, BaseSpace Labs and 3rd Party Apps supported:
 - 16S Metagenomics v1.0.1
 - Amplicon DS v1.1
 - BWA Enrichment v1.0
 - BWA Enrichment v2.1
 - BWA Whole Genome Sequencing v1.0
 - Cufflinks Assembly & DE v1.1
 - FASTQC v1.0 (BaseSpace Labs App)
 - FASTQ Toolkit v1.0 (BaseSpace Labs App)
 - Illumina VariantStudio
 - Isaac Enrichment v1.0
 - Isaac Enrichment v2.1
 - Isaac WGS v2.0
 - Isaac WGS v4.0
 - Kraken Metagenomics v1.0 (BaseSpace Labs App)
 - MethylSeq v1.0
 - SmallRNA v1.0
 - SPAdes Genome Assembler v3.0 (3rd Party App)
 - SPAdes Genome Assembler v3.5 (3rd Party App)
 - The Broad's IGV
 - TopHat Alignment v1.0
 - TruSeq Amplicon v1.1
 - TruSeq Targeted RNA v1.0
 - Variant Calling Assessment Tool v2.0 (BaseSpace Labs App)

BaseSpace Onsite LT has 19 Apps Included with the system.
(Note the BaseSpace Onsite HT has 22 Apps)

The differences are that BaseSpace Onsite LT systems do not include the Tumor / Normal Apps, TruSeq Long-Read Assembly and TruSeq Phasing Analysis Apps, because they are not relevant to the instrument types supported by BaseSpace Onsite LT systems. All other software features are equivalent between BaseSpace Onsite LT v1.0 software and BaseSpace Onsite HT v2.1 software.

KNOWN ISSUES:

- 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 LT Software v1.0 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.