

MiSeq Software Release Notes

MiSeq Control Software v3.1.0

RTA v1.18.54

Local Run Manager v2.0.1

BaseSpace Broker v2.9.2

MiSeq Recipes v3.1.0

For MiSeq Systems

Revision History

Revision	Date	Description of Change
00	June 22, 2015	Initial version
01	Sept 8, 2015	Release version
02	Oct 21, 2015	Product name update
03	May 27, 2016	Version updates
04	04/OCT/2016	MiSeq Reporter version updates
05	17-JUL-2018	Version updates; Replacing MiSeq Reporter with Local Run Manager
06	18-JAN-2019	Update MiSeq Control Software and Local Run Manager with software hotfixes

Introduction

These Release Notes detail the key changes to software components for the Illumina MiSeq Software between the specific versions listed in the table.

Software Application	Prior Version	New Version
MiSeq Control Software	2.6.2 or 3.0.0	3.1.0
MiSeq Reporter	2.6.2	N/A
Real-Time Analysis (RTA)	1.18.54	No Change
BaseSpace Broker	2.5	2.9.2
MiSeq Recipes	3.1.0	No Change
Local Run Manager	N/A	2.0.1

This release is optional, but highly recommended. Review these changes before updating your software.

If you are upgrading from a version earlier than v2.6.2, review the release notes for v2.5 for a list of features and bug fixes introduced in that version.

For more information about the MiSeq System and how to use the software included with it, see the product and support pages at illumina.com:

www.illumina.com/systems/miseq.html

support.illumina.com/sequencing/sequencing_instruments/miseq.html

To update this software suite, your MiSeq must already be running MiSeq versions 2.4, 2.5, 2.6.1, 2.6.2, or 3.0.0.

I. MiSeq Control Software (MCS) v3.1.0

NEW FEATURES:

- Added Local Run Manager sequencing workflow
- Changed Sample Sheet workflow to validate sample sheets through Local Run Manager module
- Added Manual mode, which allows users to manually enter run parameters without sample sheet and does not automatically perform secondary analysis
- Added Illumina Proactive logging to transmit machine-readable instrument health files to Illumina
- Removed MiSeq Reporter and replaced with Local Run Manager for run setup and secondary analysis
- Allow users to send only run monitoring data and not full runs to BaseSpace
- Added option to automatically start sequencing after pre-run checks
- Added check for reagent chiller temperature during pre-run checks and warn user if chiller temperature goes out of range during sequencing
- User prompted with confirmation message when exiting the control software
- Improved error messaging
- Various UI enhancements

DEFECT REPAIRS:

- Removed an unneeded button on the temperature control warning screen
- Proper functioning of pre-run internet connection check
- Fixed erroneous standby wash warning message
- Increased max cycle limit for Q30 score calculation
- Optimized best Z-height calculation during system checks
- Generate correct recipe if read 1 or read 2 custom primer is selected
- Correctly enforce template line wash for supported workflows

KNOWN ISSUES:

- If the User exits sequencing setup in Local Run Manager mode while on one of the manual consumable entry screens, the current run will remain locked in Local Run Manager. User can unlock run in Local Run Manager manually
- Fluidics do not pause when the flow cell door is opened during a wash

II. Local Run Manager v2.0.1

NEW FEATURES:

- Various UI enhancements

DEFECT REPAIRS:

- Fixed Reference Genome path check to allow for more flexibility in directory structure
- Fixed duplicate Reference Genomes populating in run creation
- Case insensitivity implemented for User Names

KNOWN ISSUES:

- Disk space check for analysis is not performed when importing a run
- Unable to upgrade RabbitMQ when there is already an existing version on the system

III. RTA v1.18.54

- No changes were made to this application in this release.

IV. BaseSpace Broker v2.9.2

NEW FEATURES:

- Upgraded to use .NET 4.5.1
- Configured Broker to auto-restart on failure
- Added support to upload Illumina Proactive instrument data if enabled
- Now supports newer Amazon Web Services (AWS) data centers such as Europe, Middle East, and Africa (EMEA)

DEFECT REPAIRS:

- Fixed bug where attempting to upload 0 length files would result in an error

- Fixed bug that caused errors to occur retrieving sample library information in time zones ahead of GMT

KNOWN ISSUES:

- None

V. MiSeq Recipes v3.1.0

- No changes were made to this application in this release