MiSeq Software
Release Notes

MiSeq Control Software v4.0.0

RTA v1.18.54

Local Run Manager v3.0

Universal Copy Service v1.6.3

MiSeq Recipes v4.0.0

For MiSeq Systems

Revision History

Revision	Date	Description of Change
00	22-JUN-2015	Initial version
01	08-SEP-2015	Release version
02	21-OCT-2015	Product name update
03	27-MAY-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
07	21-JAN-2021	Update MiSeq Control Software and Local Run Manager Replace BaseSpace Broker with Universal Copy Service

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 (MCS)	3.1.0	4.0.0
MiSeq Reporter	N/A	N/A
Real-Time Analysis (RTA)	1.18.54	No Change
BaseSpace Broker	2.5	N/A
MiSeq Recipes	3.1.0	4.0.0
Local Run Manager	2.0.1	3.0
Universal Copy Service	N/A	1.6.3

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:

- Product page: www.illumina.com/systems/sequencing-platforms/miseq.html

- Support page: support.illumina.com/sequencing/sequencing_instruments/miseq.html

The MCS v4.0.0 software is only compatible with Windows 10. This upgrade requires an Illumina field service visit. It is not possible to self-upgrade from a previous version.

If you are upgrading from versions prior to MCS v3.1, please refer to release notes for previous changes.

Refer to Local Run Manager Module Selector for current module availability.

- Local Run Manager Module Selector page:
  https://customprotocolselector.net/selectors/LRM-module-selector/Content/Source/FrontPages/LRM-module-selector.htm

I.   MiSeq Control Software v4.0.0

NEW FEATURES:

- Windows 10 support.
- Complete User Interface (UI) refresh without impacting existing workflows.
- Camera libraries and drivers updated to run in Windows 10.
- Cybersecurity enhancements:
  - Enable software to run as non-admin OS user.
  - Restrict the installation of non-signed software in non-whitelisted locations.
- Enhanced Illumina Proactive logging.

- Integrated Universal Copy Service (UCS) copies files to local, network, or BaseSpace endpoints.

- Use of BaseSpace Sequence Hub requires enabling Proactive. Proactive allows for faster instrument repair time and viewing of historical and real-time instrument performance data.

DEFECT REPAIRS:

- If the user exits sequencing setup in Local Run Manager mode while on a manual consumable entry screen, MCS correctly unlocks the run.

- Returning to Run Settings screen preserves paired end selection.

- Inaccurate run time estimate removed from sequencing screen.

KNOWN ISSUES:

- MCS v4.0 does not accept sample sheets generated from Illumina Experiment Manager (IEM). This is because IEM is no longer supported on MiSeq instruments. Local Run Manager (LRM) will allow generation of compatible sample sheets. Template sample sheets can be found on the MiSeq Support page using the LRM Module Selector tool.

- The current release of the Clarity LIMS MiSeq Integration does not support integration with MCS 4.0 Local Run Manager Mode. If this integration is in use, please use Manual or Sample Sheet Mode.

- MCS fails to show run as complete if flow cell door is opened after pre-run checks and before starting sequencing. Check LRM for run completion and restart instrument for recovery. Runcompletion.xml also fails to generate but can be copied over from a previous run as needed.

- Instrument status indicator circle spins while MCS is open but system is idle.

- Secondary analysis does not terminate upon exit application, reboot, or shutdown. Upon restart, secondary analysis will continue and complete successfully.

- LRM user permission to minimize MCS is not recognized by MCS in Kiosk Mode. Only users using Windowed mode can minimize.

- Fluidics do not pause when the flow cell door is opened during a wash.

II.   Local Run Manager v3.0

NEW FEATURES:

- Windows 10 support.

- Added password recovery using security questions for unlocking user accounts.

- Database account security improvements.

- Decoupled Library Prep Kits and Index Kits.

- Renamed 'Library Prep Kits' to 'Index & Library Prep Kits' under Tools menu.

- Renamed 'User Management' to 'Account Management' under Tools menu.

- Improved behavior allowing off-domain instruments to access on-domain network locations.
- Includes bundled version of Chromium v76.

DEFECT REPAIRS:

- Fixed disk space check for analysis when importing a run.

KNOWN ISSUES:

- LRM database backup does not work unless service account is set to Local System Account.

III.   RTA v1.18.54

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

IV.   Universal Copy Service v1.6.3

NEW FEATURES:

- Initial release.
- Allows copy of Output Run Folder contents to BaseSpace and/or external storage.
- If Illumina Proactive is enabled, allows copy of instrument analytic logs to BaseSpace.

DEFECT REPAIRS:

- N/A

KNOWN ISSUES:

- None

V.   MiSeq Recipes v4.0.0

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