



MiSeqDx Software System v4

Release Notes

MiSeq Operating Software (MOS) v4.0.1.685

MiSeqDx Recipes v4.0.0.8

Local Run Manager v3.1.0.374

Real-Time Analysis (RTA) v1.18.54.3

RTA v1.16.18.2

Universal Copy Service 2.5.0.2781

For MiSeqDx Instruments

November 1, 2021



Introduction

These release notes detail the key changes to software components for the MiSeqDx system.

Software Application	MiSeqDx Version	
	v2	v4
MiSeq Operating Software (MOS)	2.2.4.3	4.0.1
Real-Time Analysis (RTA)	1.16.18.2 1.18.54.3	No Change
BaseSpace Broker	2.9.1.2	Replaced by Universal Copy Service
Reference Genome	2.0.0.0	No Change
MiSeqDx Recipe Fragments	3.1.0.0	4.0.0.26
Local Run Manager	1.4.5.0	3.1.0.374
Run Copy Service	1.0.14.0	Replaced by Universal Copy Service
Universal Copy Service	N/A	2.5

This update must be installed by Illumina personnel and is included in all newly manufactured MiSeqDx instruments.

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

- <https://www.illumina.com/systems/sequencing-platforms/miseqdx.html>
- https://support.illumina.com/clinical_support/clinical_instruments/miseqdx.html

Applicable Local Run Manager modules have been tested with this configuration and demonstrated equivalent performance.

Refer to Local Run Manager Module Selector for applicable modules for MiSeqDx 4.0:

- <https://customprotocolselector.net/selectors/LRM-module-selector/Content/Source/FrontPages/LRM-module-selector.htm> for applicable modules for MiSeqDx 4.0.

Contact Illumina Technical Support for module installation.

I. MiSeq Operating Software (MOS) v4.0.1

NEW FEATURES:

- Windows 10 support.

- Complete User Interface (UI) refresh without impacting existing workflows.
- Improved boot selection method for switching between RUO and Dx modes.
- 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-allowlisted locations.
- Enhanced Illumina Proactive logging.
- Integrated Universal Copy Service (UCS) copies files to local or network endpoints.

DEFECT REPAIRS:

- If the user exits sequencing setup in Local Run Manager mode while on a manual consumable entry screen, MOS correctly unlocks the run.
- Returning to Run Settings screen preserves paired end selection.
- Inaccurate run time estimate removed from sequencing screen.

KNOWN ISSUES:

- If Auto-Start is enabled during Pre Run Checks, and the flow rate check fails, the Local Run Manager status is prematurely progressed to 'Sequencing'. If this occurs, recreate the run in Local Run Manager and restart sequencing setup.
- Instrument status indicator circle spins while MOS 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.
- Only users using Windowed mode can minimize MOS.
- Fluidics do not pause when the flow cell door is opened during a wash.

II. MiSeqDx Recipes 4.0.0.26

NEW FEATURES:

- Updated version number.

DEFECT REPAIRS:

- None

KNOWN ISSUES:

- None

III. Local Run Manager 3.1.0.374

NEW FEATURES:

- Windows 10 support.
- Added password recovery using security questions for unlocking user accounts.
- Cybersecurity improvements.



- 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 v84.
- Simplified User Permission and Tool Settings

DEFECT REPAIRS:

- Fixed database backup for Service account.

KNOWN ISSUES:

- N/A

MODULE UPDATES:

- Released Local Run Manager 3.1 compatible versions of Somatic Variant Module v2.0 and Germline Variant Module v2.0.

IV. Universal Copy Service 2.5

- 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.