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MiSeq RUO Software System Customer Release Notes

MiSeq System Suite Installer v4.1.0

MiSeq Control Software (MCS) v4.1.0

MiSeq Recipe Fragments v4.1.0.24

Local Run Manager Framework v4.1.0

Real-Time Analysis (RTA) v1.18.54.4

Universal Copy Service v2.7.4

For MiSeq

November 17, 2023

Introduction

These Release Notes detail the MiSeq System Suite v4.1.0 software new features, improvements, and resolution to Illumina Local Run Manager and Universal Copy Service issues for the MiSeq Sequencing Systems. This software release is only compatible with Windows 10 operating system and is not backwards compatible with Windows 7.

This update is customer installable and is included in all newly manufactured MiSeq instruments. For further assistance, contact Illumina Technical Support.

For more information about the MiSeq instrument, see the product and support pages at www.illumina.com.

- https://support.illumina.com/downloads/illumina-local-run-manager-4-0.html
- https://www.illumina.com/systems/sequencing-platforms/miseq.html
- https://support.illumina.com/sequencing/sequencing_instruments/miseq.html

I.   MiSeq System Suite (MSSI) v4.1.0

Software Application	MiSeq System Suite Version
MiSeq System Suite Installer (MSSI)	4.1.0*
MiSeq Control Software (MCS)	4.1.0*
Local Run Manager	4.1.0*
Universal Copy Service	2.7.4*
MiSeq Recipe Fragments	4.1.0.24**
Real-Time Analysis (RTA)	1.18.54.4

*Indicates change from previous release
**This change is only to the version number. It does not have impact to functionality or integration.

NEW FEATURES:

- Enhanced LRM authorization

- Enhanced security configurations

- Local Run Manager will prompt users to set Database Backup Secret (password). Backup will not complete until that password is set

- Bundled support Chromium browser v108

  - Note: Accessing Local Run Manager locally on instrument or remotely from the same local network as the instrument via an unsupported browser or version is allowed after user acknowledgement. Using unsupported browser and version may result in loss of some Local Run Manager User Interface functionality.

- Password expiration setting is required in Local Run Manager. Default password expiration period is set to 90 days. User can set to a maximum of 180 days

- Service accounts can be configured for Analysis Service, Job Service and Universal Copy Service individually.

- Updated Local Run Manager component version:
    - Postgres to v13.3 (previous version has EOL)
    - RabbitMQ to v3.8.17 (previous version has EOL)
    - Erlang OTP to v24.0 (12.0) (it is a dependency of RabbitMQ v3.8.17)
    - jQuery to v3.6.0 (includes patches for security vulnerabilities

- UCS update from v1.6.3.1423 to v2.7.4 – cybersecurity enhancements

- Update to the FTS to include LRM Password Update Warning

- Increase Max Index Length from 100 cycles to 1000 cycles to enable custom workflows

FIXED ISSUES:

- Addresses the LRM cybersecurity vulnerability as mentioned in PQN2022-1244

- Resolves the UCS out of memory issue

- Fix consistency for RunParameters.xml

- Remove Initialization Lag when Proactive is not accessible, software simply hangs during splash screen

- Reduces the occurrence rate of tile image swapping

- LRM Fails to Install when upgrading from RC1 to RC2, suite installer prevents LRM upgrading from one 4.x to higher version 4.x.

- Private Domain Input Box not Displayed

- UCS error message not displayed when UCS not running during Pre-Run Checks

KNOWN ISSUES:

- Pinned shortcut name on taskbar is not 'Local Run Manager'

MODULE UPDATES:

- Release updated LRM modules: RNA Fusion v3.0.0, Amplicon DS v3.0.0, Small RNA v3.0.0

- For MCS v4.1.0 Local Run Manager compatible modules, refer to the Local Run Manager Module Selector page: https://customprotocolselector.illumina.com/selectors/LRM-module-selector/Content/Source/FrontPages/LRM-module-selector.htm

Release History

Revision	Release Reference	Originator	Description of Change
00	CN 1096520	Aileen Cua	Initial release