

Local Run Manager Customer Release Notes

Amplicon DS Analysis Module v3.0

For NextSeq 550 RUO, MiSeq RUO, iSeq and MiniSeq Instruments

February 13, 2024

Introduction

These Release Notes detail notable items for the Local Run Manager Amplicon DS Analysis Module v3.0 release.

Please note that the Amplicon DS Analysis Module v3.0.0 requires Local Run Manager Framework v4.0 or higher and is not compatible with Local Run Manager Framework v3.0 or lower. For more information on module version compatibility per instrument platform, refer to <https://customprotocolselector.illumina.com/selectors/LRM-module-selector/Content/Source/FrontPages/LRM-module-selector.htm>.

For more information about this analysis module and how to use it, refer to the Local Run Manager Amplicon DS Analysis Module Workflow Guide, available from the Illumina Local Run Manager Support Page, Documentation & Literature.

https://support.illumina.com/sequencing/sequencing_software/local-run-manager/documentation.html

NEW FEATURES:

- Illumina Library Prep Kits (LPK) and Index Adapter Kits (IAK) are decoupled.
 - Users now able to choose both the LPK and IAK options from Local Run Manager interface.
 - Sample Sheet export from Local Run Manager will now include the Index Kits field on a separate line from the Library Prep Kits.
 - Added support for custom Library Prep Kits and Index Kits.
 - Added separate directories for Illumina Library Prep Kits and Index Kits.
- Added Custom Primers use warning when applicable on the interface.
- Removed Show Index Name/Sequence option when the Library Prep Kit is set to Custom.
- Compatibility check with Local Run Manager Framework v4.0 only.

FIXED ISSUES:

- Fixed the Save Run failure when accepted special characters were used in the Sample Description

KNOWN ISSUES:

- Custom Primers don't update in the Local Run Manager run if they are updated in the Control Software.
- If the Local Run Manager Analysis Service is restarted, this could cause a running analysis to crash. Analysis can be requeued if this happens.

OTHER:

- When using a custom kit, you must always enter your i5 indexes in forward orientation.
- Local Run Manager will automatically reverse complement the i5 indexes when writing the sample sheet used for analysis in the NextSeq 500/550, iSeq and MiniSeq. Local Run Manager will not reverse complement i5 indexes in MiSeq.

PREVIOUS RELEASE NOTES

Amplicon DS Analysis Module v2.0

Introduction

These Release Notes detail notable items for the Local Run Manager Amplicon DS Analysis Module v2.0 release.

Please note that the Amplicon DS Analysis Module v2.0 requires Local Run Manager Framework v2.0.0 or higher and is not compatible with Local Run Manager Framework v1.3.1 or lower.

For more information about this analysis module and how to use it, refer to the Local Run Manager Amplicon DS Analysis Module Workflow Guide, available from the Illumina Local Run Manager Support Page, Documentation & Literature.

http://support.illumina.com/sequencing/sequencing_software/local-run-manager/documentation.html

NEW FEATURES:

- Added support for overriding variant frequency filter cutoff setting.
- Changed the Variant Frequency Filter Cutoff default value from 0.05 to 0.03.
- Added support for processing datasets generated from iSeq 100, MiniSeq, MiSeq, and NextSeq 550 sequencing systems.
- Added support for importing and exporting Sample Sheet files on the Run Setup page.
- Added support for entering custom index sequences directly on the Run Setup page.
- Added support for the following special characters to be used as part of the "Run Name" and "Run Description" on the Run Setup page:
` ~ ! @ # \$ % - _ { }
- Increased the maximum number of samples on the Run Setup page to 1536.
- Module Installer enhancements
 - Update user credentials page text to be more descriptive and easier to read.
 - Update Success, Failure, and Cancel headings.
- Added analysis sufficient disk space check.
- Support module uninstallation without Local Run Manager installed.
- Added banner reminding user to upload manifest(s).
- Enabled Genome Folder selection functionality.
- Added Readme file with used open source software license agreements.
- Added IndexPlate and PlateWell columns to Amplicon DS column Configuration
- User Interface enhancements.

FIXED ISSUES:

- Fixed report URL path to handle secondary analysis worker changing underscores to dashes.

KNOWN ISSUES:

- Custom primers don't update in the Local Run Manager run if they are updated in the Control Software.
- Save Run fails when accepted special characters are used for Sample Description
- If the Local Run Manager Analysis Service is restarted, this could cause a running analysis to crash.

OTHER:

- When using a custom kit, you must always enter your i5 indexes in the MiSeq or forward orientation. Local Run Manager will automatically reverse complement the indexes when writing the sample sheet used for analysis.

Release History

| Revision | Release Reference | Originator | Description of Change |
|----------|-------------------|-------------|--|
| 01 | ER 1004586 | Arthur Wang | - Initial release for Amplicon DS Analysis Module v1.0 |
| 02 | ER 1029686 | Arthur Wang | - Updated for Amplicon DS Analysis Module v2.0 |
| 03 | CN 1101973 | Yan Hui Hew | - Incorporated the CRN template rev01 - Added a new section for Amplicon DS Analysis Module v3.0 - Moved the previous version of Amplicon DS Analysis Module v2.0 under "Previous Release Notes" |