



RALS 8.6.x External Release Notes

Abbott Rapid Diagnostics (ARDx) Informatics

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1. Introduction

This document details the new features, improvements, and fixes found in the RALS 8.6.4 build 23.45.0432. For information regarding the installation, features, functionality, and use of this product, please refer to the Resources section.

2. New Device Types and Enhancements

New Device

- BIOFIRE SPOTFIRE: Connectivity via ethernet and wireless

Device Enhancements

- Roche Coagulation
 - Support for software version 04.09.01
 - 04.09.x software is being deployed for a hardware refresh of CoaguChek XS Plus meters and is NOT backwards compatible with older versions of RALS
- Abbott i-STAT® Alinity
 - Added support for high-sensitivity troponin (hs-TnI)
- Mitsubishi PATHFAST
 - Added support for high-sensitivity troponin (hs-cTnI-II)
- Cepheid GeneXpert Xpress and GeneExpert Dx
 - Added support for version 3 of the following new test types:
 - Xpress Flu RSV plus
 - Xpress Flu plus
 - Updated to support for version 3 of the following test types:
 - Xpress SARS-CoV-2 Flu RSV plus
 - Xpress SARS-CoV-2 Flu plus
 - Xpress SARS-CoV-2 plus
- NovaNet
 - Added support for NovaNet version 5.0.0.0
 - Support for receiving results with SSL enabled
- Afinion
 - Added support for version 21.16
 - Added “Auto Send” to device configurations
 - Only supported in version 21.16 or later
 - Turned off by default
 - Mutually exclusive with “Allow Discard” setting

3. New Features and Enhancements

New Configurable Reports: Reports can be configured through editable report configurations

- Configurable Reports consist of two new sets of pages:



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- Report Configurations - used to create report templates
 - Reports - used to generate report records
- Includes default report configurations for:
 - Workload Summary
 - i-STAT® 1 Reagent Usage by Location
 - i-STAT® 1 Quality Check Codes by Location
 - i-STAT® 1 Quality Check Codes by Operator
 - i-STAT® 1 Quality Check Codes by Operator Location
 - i-STAT® 1 Simulator Results
 - QC Test Results
 - Device Utilization Summary
 - Provides quick insight into how frequently devices are used for patient testing relative to other testing
- Includes support for the following resource types:
 - Results
 - Devices
 - Operators
 - Locations
 - Institutions
- Reports can be automatically or semi-automatically generated through a new Reports Task type
- Supports RALS systems enabled for multiple time zones
- Supports RALS systems enabled for certification groups

4. New Automations

- Levey-Jennings task capabilities:
 - New option to automatically review charts
 - Ability to automatically generate charts based on device assigned locations
- Updates to Recertification functionality:
 - Ability to specify which flags should be ignored (i.e. results with these flags will not be excluded from consideration) when a recertification set is executed, enabling more results to automatically satisfy recertification criteria
- “RALS Health Check Email” task
 - Automatically send daily e-mails to the RALS system admin e-mail address if the “Warning” display view on the Statuses data table is not empty (i.e. there is a potential problem)

Note: requires the RALS system to be configured to send e-mails
- E-mail View task automation now includes an option to send e-mail even when display view is empty
- Support for Bulk Printing of common views and charts



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- Results – can be bulk printed from the data table
- Levey-Jennings – can be bulk printed from data table and bulk reviewed
- Linearity – can be bulk printed from data table and bulk reviewed

5. Enhancements

- Addition of “NOT” filtering (e.g., “NOT In List”, “Does NOT Contain”) to these data tables
 - Results
 - Operators
 - Institutions
 - Locations
 - Devices
 - Materials
- The following Results columns have been updated to support grouping:
 - Device
 - Operator
 - Patient
 - Sample Type
 - Reviewed
 - Last Reviewed By
 - Specimen Type
 - Specimen Site
 - Measurement Device
 - Collection Device
 - Last Notified By
- Cost Per Test export is now available to operators with the “Results Read” permission
- TCP port used by devices to connect to RALS is now displayed in Device/Sessions
- RALS Status Service functionality has been migrated into RALS PeriodicTask Service
- New system setting to define an e-mail address for the RALS system administrator:
 - Named “System Admin E-mail”
 - Belongs to the “E-mail” system settings group
 - Blank by default
- New system setting to enable/disable pinging of download points (enabled by RALS Support):
 - Named “Ping Download Points”
 - Belongs to the “General” system settings group
 - Enabled by default
- ‘Enter’ key now works like the login button when changing password on the login page



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6. Security and Package Updates

- Official support for SQL Server's transparent data encryption (TDE)
- Package updates:
 - RALS now uses Angular 21.2
 - RALS now uses Crystal Reports Runtime 13.0.37
 - RALS now uses Microsoft OLE DB Driver for SQL Server 18.7.4
 - RALS now installs SQL Server 2019 CU31 on R70 systems
 - RALS now installs SQL Server Management Studio 20.2 on R70 systems
 - RALS installer now utilizes WiX 5

7. System Requirements

- For existing customers remaining on an ARDx Informatics Provided Image (R70 platform) the following minimal requirements should be available to upgrade to this version of RALS:
 - C Drive must have at least 10 Gb of free space.
 - D Drive must have three times the size of the backup file.
- For customers implementing in a Customer Provided Environment the following minimal requirement should be available:
 - See [Specifications for Customer Provided Environments](#)

8. Supported Environments

- Supported Browsers:
 - Microsoft Edge
 - Google Chrome
 - Mozilla Firefox

9. Required Third Party Components

- No additional third-party components required. All components are installed on the RALS server as part of the product installation.



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10. Bug Fixes

- Roche Coagulation
 - RALS no longer misidentifies devices as a Roche Coagulation device type.
- GEM Hemochron 100
 - Results with ESV values containing ranges are no longer truncated and the range information captured with the result value.
- Abbott Glucose
 - RALS can process the Venous and Arterial/Capillary specimen types for Abbott Glucose results
- Siemens epoc® Blood Analysis System
 - Resolved an issue where epoc results were flagged with the “Duplicate Value” flag, causing them to be held in RALS
- NovaNet
 - Operators can now be uploaded to NovaNet even if a single operator has multiple NovaNet-relevant certifications and at least one active NovaNet-relevant operator message
 - Operators can now be uploaded to NovaNet even if a single operator has multiple manual test entry (MTE) certifications with differing certification dates
- Charting: Levey-Jennings and Linearity
 - Levey-Jennings charts with non-positive (e.g. 0 or negative) means now display "Could not calculate due to non-positive mean" as their %CV
 - The correct target value is now used when plotting linearity charts containing results using non-common units of measure
 - Levey-Jennings charts now automatically update when changing legend toggles, selecting points on the chart, and selecting rows in the result values data table
 - The count of outliers in Levey-Jennings chart statistics now includes both “Out of Range” (yellow triangle) and “Out of Graph Range” (red triangle) results
 - Fixed a bug where Linearity and Levey-Jennings charts could print without data
- User Interface
 - Specific field names are displayed first on numeric filter labels to distinguish fields and preserve visibility to values
- System performance
 - Improved system responsiveness to prevent database locks on key results tables
- eQuiz certificates can now be accessed for printing