Software Changes for Revision 3.3.2

Document Purpose

This document provides an overview of the new functionality and software changes included in revision 3.3.2 relative to the previous revision 3.3.1 for OpenLAB ICM.

This document may be used to assess the extent of the software changes and determine the appropriate incremental qualification and acceptance test activities.

Scope of OpenLAB ICM 3.3.2 Release

OpenLAB ICM 3.3.2 includes support for new and updated instrument drivers including the new Agilent 7890 GC. The release also includes several quality fixes.

Pre-requisites

- OpenLAB ECM 3.3.1
- OpenLAB ICM 3.3.1
- OpenLAB ECM 3.3.1 Hotfix 31[1]
- OpenLAB ECM 3.3.1 Hotfix 45[1]

Classification of Software Changes

Prior to implementation, each proposed change has been subjected to a change impact analysis to preclude that the change would adversely impact software stability or data integrity for the system. Based on these impact analyses, only changes with no appreciable effect on the operational characteristics and reliability of the product and its fitness for the intended purpose were implemented. After completing the software change, Agilent Technologies personnel have executed specified test cases to verify the correct and effective implementation of the changes.

Classification	Definition
Major	Software changes with an appreciable effect on the operational characteristics and reliability of the product and its fitness for the intended purpose, relative to the previous version.
	Major software changes typically warrant full re-qualification of the system and the execution of detailed acceptance tests at least in the affected areas.
	Examples of major software changes in chromatography data systems are modified or new algorithms, calculation changes, storage format changes for central system functions such as integration or quantification of chromatographic signals. Examples of major software changes for central storage systems are customer visible changes to data storage mechanisms, or changes to database storage resulting in substantial metadata modifications.

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[1] Refer to the respective Hotfix readme for detailed changes and recommended re-qualification activities.

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Minor	Changes with no appreciable negative effect on the operational characteristics and reliability of the product and its fitness for the intended purpose relative to the previous version. Minor software changes typically result in one or multiple modified system files. The installation of an update or service release containing minor software changes typically requires the execution of the updated qualification protocols specified and provided by the supplier.

Recommended Re-qualification Activities

Users of OpenLAB 3.3.1 who are considering an upgrade to OpenLAB ICM 3.3.2 should review this document and check for software changes that may be applicable to their intended use of the software.

Agilent recommends:

1. Verify the installation upgrade on all OpenLAB servers by running the module validation program on each server and attaching the reports to the system qualification documents.

2. Verify the installation upgrade on all OpenLAB clients by running the module validation program on the client and attaching the reports to the system qualification documents.

3. Verify the installation upgrade on all OpenLAB AICs by running the IQ report on the AICs and attaching the reports to the system validation documents.

4. For each Rev B AIC, re-perform the instrument communication test of the AIC IQOQ protocol on one instrument connected to that AIC.

5. For each Rev A AIC, re-perform the instrument communication test of the AIC IQOQ protocol on each instrument connected to that AIC.

Functional Areas Affected by OpenLAB 3.3.2 Release

The following functional areas of the software are affected.

Functional Area	Change	Validation Impact
Agilent GC Instrument Driver	The Agilent 7890 GC is now a supported instrument	Minor
Agilent GC Instrument Driver	The instrument driver for the Agilent 6850 and 6890 GCs now support the micro EC detector and PTV Inlet,	Minor
Agilent GC Instrument Driver	Support for the PCM Board has been added to the Agilent 6890 GC instrument driver.	Minor
Agilent GC Instrument Driver	Support for the G2880 autosampler has been added to the Agilent 6890 GC instrument driver.	Minor
Agilent LC Instrument Driver	Support for the Seal Wash has been added to the Agilent LC instrument driver	Minor
AICs	New images for the Rev A and Rev B AICs which include .Net 2.0 are required for this release. The Rev A AICs require instruments connected to those AICs be reconfigured. Rev B AICs retain instrument configuration through the upgrade.	Minor
Analysis Server	Multilevel calibration with sequence bracketing has been added to the software.	Minor
Analysis Server and Instrument Drivers	Trace ID data type has been changed from numerical (INT32) type to string (CString)	Minor
Analysis Server and Instrument Drivers	Implementation for keeping Vial information has been changed from numerical (INT32) type to string (CString) type	Minor
Audit Trail	(Incident 15874) When a user stops a run or a sequence that was started by another user, the audit trail will now list the user stopping the run or sequence and not the user who started the run or sequence.	Minor
CTC Instrument Driver	Several small fixes were made in the CTC instrument driver.	Minor
Instrument Control	(Incident 15648) Clients viewing Shimadzu instruments with PDAs will see a properly scaled chromatograph during the run and not just at the end of the run.	Minor
Instrument Drivers	Multi-tower autosampler implementation has been changed. Now multiple traces are supported for each tower instead of single trace	Minor
Instrument Drivers	Retention time locking has been added as an instrument method option for Agilent GCs (6850, 6890, 7890)..	Minor
Instrument Drivers	The Alltech Associates ELSD-2000 and CD650 are now supported instrument detectors	Minor
Instrument Window	The ICM window will now lock like the ECM window	Minor
Instrument Window	Support for Agilent Lab Monitor and Diagnostic software has been integrated in this release	Minor
Perkin Elmer Instrument Driver	The Perkin Elmer Nelson Interfaces 940, 941A, 950, 950A, 960, 960A, 970, 970A, NCI 901, and NCI 902 are now supported instrument interfaces.	Minor
Users/Groups/Roles	(Incident 15990) A user is now prompted to login when revoking signatures on result files. Audit trail entries are also made for the signature revocation.	Minor
Varian Instrument Driver	The Varian 3900 GC is now a supported instrument.	Minor
Waters Instrument Driver	Waters LC detectors can now be configured for any instrument	Minor
Waters Instrument Driver	(Incident 15991) The Waters LC with a PDA will now complete a running sequence if the AIC running the instrument loses its connection to the OpenLAB servers.	Minor

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