Notices

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Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051
USA

Software Revision
This guide is valid for the 2.4 revision or higher of Agilent OpenLab Server and OpenLab ECM XT until superseded.

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*OpenLab Server and ECM XT Release Notes*
1 Introduction

This document provides a listing of the major feature modifications made in each release of OpenLab Server and OpenLab ECM XT Software. References to product documentation regarding known issues and workarounds are also provided.

For our Regulated Customers

When any change is made to Agilent software, the validation status of the software needs to be re-established by the user/customer.

Whenever software is changed, a validation analysis should be conducted not just for the validation of an individual change, but also to determine the extent and impact of that change on the entire software system.
OpenLab Server

OpenLab Server software is comprised of Shared Services and Content Management components. Shared Services provides system administration functions and content management provides the ability to manage data and files of any type.

Information on modifications provided in this section apply to both OpenLab Server and ECM XT.

Version 2.4

Operating System Support

New server OS support:
- Microsoft Windows Server 2016 Standard or Datacenter

New client OS support:
- Microsoft Windows Server 2016 Standard or Datacenter

No operating system support has been removed since v2.3.

Database Support

New database support:
- Microsoft SQL Server 2017 Standard or Enterprise (64-bit)
- Microsoft SQL Server 2016 SP2 Standard or Enterprise (64-bit)
- PostgreSQL Server 10.3
- Oracle 12c R2

Removed database support:
- PostgreSQL Server 9.3
OpenLab Server

- Oracle 12c R1

New Features

- Separation of Active Content storage location and Archive storage location
  Files locked for archiving are stored in a different location from non-archived files. When a file is archived, the physical file is moved from the active storage location to the archive location. Step 4 in OpenLab Installer was updated to enable the definition of active and archive storage locations. Administrator can add storage post installation by executing Step 4 of the OpenLab Installer.

- Support for multiple Active and Archive storage locations
  More than one active storage location can be defined and used. Newly added storage locations are designated as "Primary". The primary storage location is used for all file uploads; it is a read/write location. Previous primary locations are automatically designated as "Secondary" when the new storage location is configured. Secondary file storage locations are read-only. Storage locations are added using Step 4 of the OpenLab Installer.
  This same Primary/Secondary location scheme applies to Archive locations.

- Support for File Storage in the Amazon Cloud
  The Amazon S3 cloud can be used for file storage – for active files, archived files, or both. Adding an Amazon S3 storage location is done using Step 4 of the OpenLab Installer.

- Support for Automated Configuration of the Scalable topology
  The OpenLab Server scalable topology can now be configured in an automated fashion using Step 4 of the OpenLab installer. The installer supports new server configurations for all three server types: Content Management with Index and Search Services, Content Management only, or Index and Search only. Existing servers can be re-configured to be Content Management only servers.

- File Set
  Grouping of analytical files (e.g., sequence, project, study). The File Set grouping preserves analytical context, enabling access, download and version management of an entire group of files. Files grouped in File Sets are stored in special folders, indicated with dark blue color.
  File Sets are versioned as new files are added or updated in the File Set. A new File Set Version History property on File Set folders enables access to view and download previous versions of a File Set. File Sets can be downloaded as a zip
OpenLab Server

file using a new folder action. The File Set functions described above are available only via the Content Management user interface.

- Metadata-based filtering and folder search
  
  Search is enhanced with the introduction of metadata-based filtering and folder search. Metadata-based filtering makes it easier to filter search results for specific files or folders based on attributes such as data type, upload date or File Set. Folder search returns search results that contain only folders.

- Preview files inside a SSIZIP
  
  Viewing a SSIZIP file by default shows all contents of the file. Clicking one of the following types of files shows a preview of that file: .ch, .doc, .docx, .xls, .xlsx, .pdf, or .txt. Note that this enhancement allows for viewing of ChemStation chromatography data directly from the ChemStation SSIZIP; no download and file extraction is required.

Version 2.3

Information on modifications provided in this section apply to both OpenLab Server and ECM XT.

Database Support

- Microsoft SQL Server 2012 Standard or Enterprise (64-bit) SP4
- Microsoft SQL Server 2014 Standard or Enterprise (64-bit) SP2
- PostgreSQL Server 9.3
- Oracle 12c R1

Miscellaneous

- Upgraded underlying Search engine from Solr 4 to Solr 6.3
- Added new dedicated Search Service for search optimization and content indexing
Version 2.2

Information on modifications provided in this section apply to both OpenLab Server and ECM XT.

New Database Support
Microsoft SQL Server 2014

New Features
• Updated Installer
• Link to the Admin Console module added to the Content Management web user interface
• Updated Storage API to support OpenLab CDS version 2.2

Version 2.1

New Database Support
• Updated PostgreSQL version to 9.3.6

New Features
• Metadata Extraction and Search enhancements to support OpenLab CDS version 2.1 file formats
• Support for OpenLab CDS version 2.1 search feature
• Updated Web User Interface extensions and customizations
• New Access Content using Web Client permission added
• Improved overall system performance

Miscellaneous
• OpenLab Data Store renamed to OpenLab Server
OpenLab Server

- Data Store web interface renamed to Content Management
- Removed capability to archive and purge files outside of the repository
- Removed capability to support Microsoft Windows Server 2008 R2 SP1
- Removed capability to support Microsoft SQL Server 2008
- Removed capability to support Oracle 11g

Version 2.0

New Database Support

- Oracle 11g R2
- Oracle 12c R1

New Features

- New installer
- Web User Interface extension and customization updated
- New User Interface based on the new Agilent design guidelines
- Added capability to archive and purge files outside of the repository
- New Storage API to support OpenLab CDS version 2.0
- Metadata Extraction and Search enhancements to support OpenLab CDS version 2.0 file formats
- High Availability and Performance support for a clustered configuration
- Added Brazilian-Portuguese support

Version A.02.02

New Operating System Support

- Microsoft Windows Server 2012 R2
OpenLab Server

- New Databases Support
- PostgreSQL 9.2
- Microsoft SQL Server 2012 Service Pack 2

New Features

- FTP Support
  Generic FTP client tools like FileZilla can be used to upload files to the OpenLab Data Store repository or to download files. The user’s permissions and privileges configured on the system are also applicable for the FTP activities. The FTP protocol is enabled by default, the procedure to enable or disable FTP is documented in the OpenLab Data Store Administrator Guide.

- Support of HTTPS and FTPS

Version A.02.01

- The OpenLab Data Store A.02.01 server can be installed independent of other OpenLab software through a dedicated installer program.
- The software can be installed on a PostgreSQL database engine rev. 9.0 in addition to Microsoft SQL Server 2008 R2 SP2.
- The server is automatically activated upon installation with internal authentication. A default user called ‘admin’ with the password ‘openlab’ is created.
- The software supports up to 30 instruments of mixed OpenLab CDS Workstations (ChemStation or EZChrom) and ICP-MS MassHunter Workstations on the same server.
- Lab Applications introduced with OpenLab Data Store A.01.02 is not supported with this release.
OpenLab ECM XT contains OpenLab Server software with advanced content management functionality (e.g. Microsoft Office) and additional functionality, including:

- **Import Service:** Sends files from your local folders to OpenLab Content Management.
- **Import Scheduler:** Automatically import files stored on network computers to ECM XT.
- **PDF Data Extraction:** Allows you to extract selected values from PDF reports into OpenLab ECM XT.

Changes in ECM XT software releases are provided in the section below.
OpenLab ECM XT

Version 2.4

Includes changes to OpenLab Server listed in OpenLab Server above, plus the following:

- Localization of Add-ons
  The ECM XT add-ons (Import Scheduler, Import Services, and PDF Templates) now support localization in Chinese, Japanese, and Brazilian Portuguese.

- File Set support in Import Scheduler
  The Import Scheduler General Task now has an option to upload files as a File Set. Empower tasks automatically upload files as a File Set.

Version 2.3

Operating System Support

OpenLab ECM XT version 2.3 server system supports:

- Microsoft Windows Server 2012 R2 Standard or Enterprise Edition

OpenLab ECM XT version 2.3 client system supports the following:

- Microsoft Windows Server 7 SP1 (64-bit) Professional or Enterprise Edition
- Microsoft Windows 10 (64-bit) Professional or Enterprise Edition
- Microsoft Windows Server 2012 R2 Standard or Enterprise Edition

Database Support

- Microsoft SQL Server 2012 Standard or Enterprise (64-bit) SP4
- Microsoft SQL Server 2014 Standard or Enterprise (64-bit) SP2
- PostgreSQL Server 9.3
- Oracle 12c R1
OpenLab ECM XT

New Features

- Empower add on for Import Scheduler
  Allows you to upload data from your Waters Empower 3 system directly to OpenLab ECM XT.

Miscellaneous

- Upgraded underlying Search engine from Solr 4 to Solr 6.3
- Added new dedicated Search Service for search optimization and content indexing
4 Version History

For known issues and workarounds in the OpenLab software at the time of release see the Software Status Bulletins, which can be found online at:

http://www.chem.agilent.com/search/?Ntt=software%20status%20bulletins

You may also visit www.agilent.com for up to date issue information for all Agilent software products.
In This Book

This document provides a listing of the major feature modifications made in each release of OpenLab ECM XT and OpenLab Server Software.