

Xcalibur 4.2 Release Notes

These release notes briefly list changes in the Thermo Xcalibur™ data system version 4.2, fixes to previously reported issues, and known issues still existing in the software.

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For information on installing Xcalibur software, refer to the CD insert. For information on configuring and using the Xcalibur 4.2 application, refer to the manuals available as PDF files or the Help.

This release incorporates support for the AcquireX™ Intelligent MSn Data Acquisition feature.

These are the recommended hardware and software configurations for Xcalibur 4.2 operation.

System	Requirements
Hardware	• 3.6 GHz Quad core processor with 16 GB RAM • Video card and monitor capable of 1920 × 1080 resolution • 1 TB hard drive • CD/R-ROM drive (or DVD)
Software	• Microsoft™ Windows™ 7 Professional SP1 (64-bit) or Windows 10 Enterprise 2016 LTSC • .NET Framework 4.6.2 • Thermo Foundation™ 3.1 SP5 or later • Microsoft Office 2013 • Adobe™ Acrobat™ or Reader™ 10.1

General

Xcalibur 4.2 software does not require licensing in any form. You can install the software on either a Windows 7 SP1 (64-bit) or Windows 10 operating system.

Installation

You must have administrator rights to install Xcalibur 4.2 software on your computer.

Xcalibur 4.2 software installs Foundation platform 3.1 SP5 and the Thermo FreeStyle™ 1.4 application. Any earlier versions will be removed prior to installation. Follow the appropriate procedure and any prompts to restart the data system computer when required.

- [To perform a new installation of Xcalibur 4.2](#)
- [To upgrade an existing installation of Xcalibur 4.1 or Xcalibur 4.1 SP1](#)

Features

System Requirements

Important Information

❖ To perform a new installation of Xcalibur 4.2

1. Click **ThermoLauncher.exe**.
2. Click **Adobe Reader 10.1** to install the Adobe Reader application.
3. Click **Xcalibur 4.2**.

Xcalibur 4.2 (build 4.2.28.13) installs on the data system computer, and includes Foundation 3.1 SP5 (build 3.1.237) and FreeStyle 1.4 (build 1.4.60.34).

❖ To upgrade an existing installation of Xcalibur 4.1 or Xcalibur 4.1 SP1

1. Using the Foundation Instrument Configuration window, remove all configured instruments.
2. Click **ThermoLauncher.exe**.
3. Click **Adobe Reader 10.1** to install the Adobe Reader application.
4. Click **Xcalibur 4.2** and proceed as follows:
 - a. Follow the installer instructions to have the installer uninstall earlier versions of FreeStyle, Xcalibur, and Foundation. Then, install Foundation 3.1 SP5, FreeStyle 1.4, and Xcalibur 4.2.
 - b. When prompted, restart the data system computer.
5. (For users of mzVault with FreeStyle only) Click **mzVault 2.1** to install the Thermo mzVault™ 2.1 application.
6. (For users of NIST 17 with FreeStyle or Qual Browser only) Click **NIST 17** to install the NIST™ MS Search Program 2.3 application.

Resolved Issues

Table 1 describes significant defects that were resolved in the Xcalibur 4.2 release. The table excludes Help issues and any cosmetic fixes. In some cases the abstract has been amended or extended from the original to better describe the reported issue. Both an engineering fix and follow-up testing (verified by our product evaluation department) have resolved this issue.

Table 1. Resolved issues

Item ID	Abstract	Severity
63644	Cannot type a negative number in the Sequence table in Xcalibur 4.1.	High
70845	Occasionally, the Xcalibur Home Page launcher locks out.	High
64375	The Standby option does not save after submitting a sequence.	Medium
65193	Xcalibur does not display all instrument errors or messages sent from the Acquisition service.	Medium
65586	The Calibration check box needs to be selected automatically when the Quantitation check box is selected for batch reprocessing.	Medium
63122	An error is generated when clicking the Batch Reprocess button.	Medium
64240	XCA-364 custom columns do not appear in the sequence list unless extra steps are taken.	Medium
71965	The run sequence shows the wrong sample in Sequence setup.	Medium
72276	Xcalibur is saving a 4 KB file when the Method Editor fails to save the method due to an error in the method.	Medium

Known Issues

Suggested recovery actions

- For some issues, restarting the application is the appropriate recovery action.
- In some cases (particularly issues that arise during data acquisition), restarting applications such as the Roadmap might not ensure complete recovery. Typically, restarting the data system computer resolves issues, but some devices with error conditions might require power cycling.
- As a fix we generally do not recommend reinstalling the software or the operating system, which more commonly occurs after you install a new hard drive.

Feature requests and other removed items

- Issues are excluded when there is insufficient information logged to successfully reproduce the reported problem.
- Feature requests are not listed as software issues, regardless of the reported significance or severity of the request. Product managers evaluate logged feature requests for future releases.
- Only discrepancies in the documented software are reported as known issues.

Terminology

Severity	Interpretation
Critical	A problem that renders the system unusable because either an entire function is unusable and no workaround exists, or use of the current system compromises data integrity or results in data loss. Catastrophic problems also include significant and non-obvious quantitative errors, and all human and instrument safety issues.
High	A serious issue that does not affect data integrity (meaning data loss, corruption of data, or the wrong answer), but affects the customer's ability to use the product as designed. It can be a failure, design issue, or documentation error or omission. A workaround might or might not exist.
Medium	A minor error or poor behavior of a product feature. There is probably a workaround.
Low	An issue that has a limited effect on customer usage of the product; for defects with visibility so low that a customer might never see it; or for ease of use issues or other items not causing any performance degradation.

Risk	Interpretation
High	Occurrence is likely to happen and can compromise operation.
Medium	Occurrence is uncommon, but could compromise operation if it occurs.
Low	Issue is minor; however, the software could operate differently from a user's expectations. A workaround may be available.
No Risk	This issue causes no problem but is commonly an inconsistency or cosmetic issue.

Known defects

Table 2 contains known defects in the software identified by ID number, a brief abstract, and severity level. The Item ID is the internal number assigned to each issue. Product management assesses risk, which can differ significantly from the reported severity.

Table 2. Known defects (Sheet 1 of 2)

Item ID	Abstract	Severity
65674	The sample type is displayed as N/A, instead of actual data as seen in Sequence setup.	Medium
69482	Request to have the Override factor and the experiment type (deep scan, exclusion experiment, and so on) in the instrument method so that the user can get the information from the raw data file more easily.	Medium
70931	Injection volume cell—Enter a value and then using arrow keys, Up or Down, to move to another cell decrements or increments the value.	Medium
71645	The installer does not create a menu link for Program > Thermo Xcalibur > Manual > Quick Start Guide.	Medium
71832	When an injection is stopped at the post-processing state, a stopped label does not appear next to the sample.	Medium
72198	The same m/z with the same intensity and with overlapping start and end times appears in the method exclusion list.	Medium
72224	It is hard to see the preferred ions if more than two are selected.	Medium
72243	Very slow loading of the instrument method on clicking New.	Medium

Table 2. Known defects (Sheet 2 of 2)

Item ID	Abstract	Severity
72281	When copying a row and pasting it to a selected cell, the values are copied to all cells in the row.	Medium
72829	(Cloned Platform Bug 73021) In the Audit Trail: Delete folder versus Deleting files does not show the same audit—that is, Delete folder shows Delete all.	Medium
73117	A background exclusion experiment runs without checking if the Full Scan method is full scan.	Medium
73346	The Help button for the Foundation - Permission dialog box does not work for certain applications.	Medium
73604	Pause, Stop, and Resume buttons do not work correctly in the Almanac application when running an AcquireX experiment.	Medium
73785	Request for MSn method validation when the total mass list exceeds 130 KB limit at the AcquireX experiment level.	Medium
74128	Sequence Setup view: By default, Inj Vol is set to 0.00.	Medium
74474	AcquireX does not show the sequence in the Real Time plot after upgrading from an earlier version of Xcalibur. Requires a restart of Service.	Medium
74475	A submitted sequence that is stopped before contact closure is established does not resume/start when you select the Play option from the toolbar.	Medium
74604	Enhancement request: No event (in Run AcquireX sequence) is recorded under Event tab when submitting an AcquireX sequence.	Medium
74696	F1Help: Shows as incorrect, after changing views.	Medium
75567	Run AcquireX Experiment online help is confusing.	Medium
75601	Unresponsive behavior of the application when changing the focus selection of cells using the arrow keys.	Medium
75829	Uncommitted records in the Events tab upon creating a .pmd method.	Medium
75978	The default value Inj Vol changed from time to time.	Medium
76051	Printing the sample and summary report from Quan Browser only creates a local copy of the report but does not print it.	Medium
76052	Background Exclusion & Component inclusion: Acquisition goes into an error state in the pre-acquiring step of ID_01 injection when the AcquireX flag under Targeted Mass Properties is not enabled.	Medium
76053	There should be a meaningful error message displayed regarding the output file exceeding the maximum size.	Medium
76130	For larger raw files (3 Gb) with run times of about 120 min, component ion detection processing takes 17 hours for completion.	Medium
68250	At the end of uninstalling Foundation, the installer shows that Foundation was successfully installed instead of uninstalled.	Low
68657	The Xcalibur EULA (end-user license agreement) shows version 4.0 for some applications.	Low
73150	Authorization Manager: The Print button does nothing if no private or domain secure user groups is set. Other buttons, like Export, show a message.	Low
73603	Startup and Shutdown methods do not work for the Easy-nLC™ systems.	Low

Trademarks

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