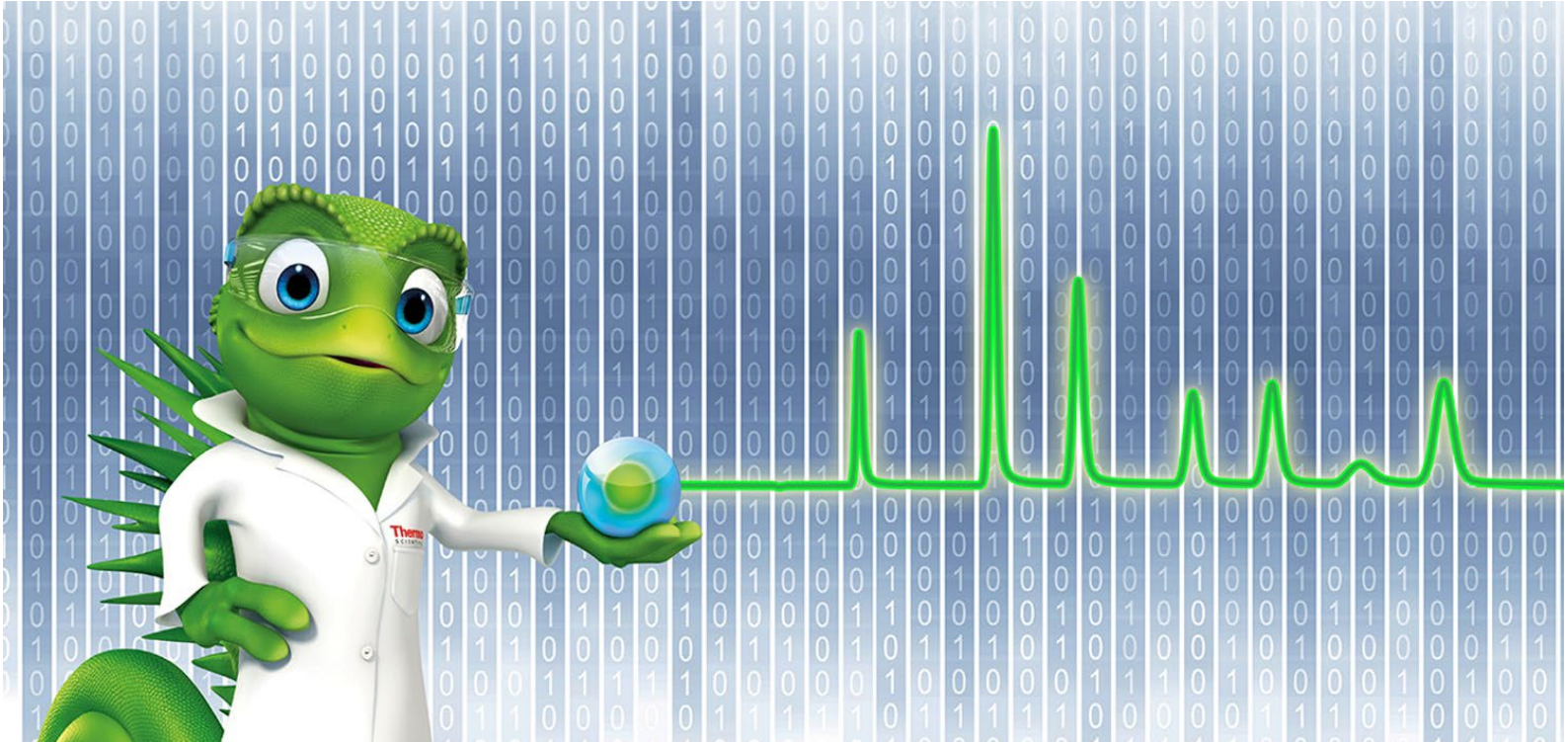




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Release Notes

SII for Xcalibur 1.8 • Mar 2024

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1 Introduction

Thermo Scientific™ Standard Instrument Integration (SII) for Xcalibur™ is an interface driver for controlling Thermo Scientific Dionex and 3rd party chromatography instruments¹ within Thermo Scientific™ Xcalibur™ software.

SII for Xcalibur is built on the Thermo Scientific™ Dionex™ Chromeleon™ 7 Chromatography Data System framework and is meant to serve as a replacement for Thermo Scientific™ Dionex DCMS^{Link}™ which is now retired.

¹ See List of Supported Instruments for currently supported instruments.

2 Abbreviations

The following abbreviations are used throughout this document. Further explanations can be found in the chapters of use.

Abbreviation	Description
SII	Thermo Scientific™ Standard Instrument Integration – Driver interface framework that allows control of supported Thermo Scientific™ chromatography instruments under various software environments using the Chromeleon 7 framework.
DCMS ^{Link}	Dionex Chromatography Mass Spectrometry Link – Driver interface framework that allows control of Thermo Scientific™ Dionex™ chromatography instruments under various software environments using the Chromeleon 6.8 framework.
CM7-xxxxx	Chromeleon and SII for Xcalibur issue tracking ID.
xxxxx	Chromeleon and SII for Xcalibur feature or issue tracking ID.
DExxxx	Foundation and Xcalibur defect tracking ID.
XCA-xxx	Xcalibur defect tracking ID.
TFS-xxxxx	TraceFinder defect tracking ID.

3 Scope of this document and other resources

The Release Notes describe what is new in this release.

The following resources provide details on how to install, configure, and use the software.

Resource	Description
Installation Guide	• Describes all requirements for installing SII for Xcalibur (e.g. Xcalibur and Foundation version requirements). • Lists the supported instruments. • Provides step-by-step instructions for installing and configuring SII for Xcalibur.
Quick Start Guide	• Provides an overview of SII for Xcalibur. • Provides step-by-step instructions on how to control instruments and acquire data from HPLC and IC modules supported by SII for Xcalibur via the Xcalibur software.
List of Supported Instruments	• Lists instrument modules which are supported under the current version of SII for Xcalibur. • Lists recommended software configurations for use with the current version of SII for Xcalibur.
Chromeleon 7 Online Help	Provides general information and help regarding the various options in SII for Xcalibur that are shared with Chromeleon 7. Note: This resource is installed with the prerequisite installation of Chromeleon 7.

Tip: You can access the Installation Guide, Quick Start Guide, List of Supported Instruments, and these Release notes from the SII for Xcalibur media, and after installation of SII for Xcalibur, from **C:\Program Files (x86)\Thermo\SII Xcalibur**

You can access the Chromeleon 7 Online Help from **Start > All Programs > Thermo Chromeleon 7 > Chromeleon 7 Help**.

4 What's new

SII for Xcalibur 1.8 provides support for new chromatography instrumentation and improves on usability, features, and performance over SII for Xcalibur 1.7. The new instruments and features are listed in this section.

4.1 New Instrument Drivers

This chapter lists new and updated Thermo Scientific™ drivers supported under SII for Xcalibur 1.8. For details on supported options, required licenses, installation, and control, refer to the Online Help or the List of Supported Instruments document found on the SII for Xcalibur 1.8 media.

4.1.1 Dionex AXP Sample Loading Pump

This release of SII for Xcalibur introduces support for the Dionex AXP sample loading pump.

4.1.2 Waters Driver Pack removed from the SII for Xcalibur Installation Package

Responsibility for the drivers to control Waters Chromatography Systems in SII for Xcalibur has been transferred from Thermo Fisher to Waters. Please contact your local Waters representative to obtain Waters Driver Packs and corresponding Waters Support Layers, as well as licenses to control Waters Chromatography Systems in SII for Xcalibur.

4.2 Compatibility

4.2.1 Compatibility with Foundation, Xcalibur, TraceFinder, and MS Drivers

SII for Xcalibur 1.8 has been validated for use with Xcalibur 4.7 and TraceFinder 5.1 SP3.

Not all MS drivers have been designed to be compatible with all Foundation, Xcalibur and TraceFinder versions. Please consult the documentation for your MS driver to ensure that it is compatible with the corresponding Foundation version.

There exist various versions of Thermo Scientific Foundation, Xcalibur, TraceFinder, and mass spectrometer driver software in the field. This may lead to a large number of software combinations that do not work with SII for Xcalibur 1.8.

4.2.2 Compatibility with Chromeleon 7 Version

Version 1.8 of SII for Xcalibur is based on Chromeleon 7.3.2.

Important Note: It is essential to ensure that Microsoft IIS (Internet Information Services) is installed and activated prior to attempting to install SII for Xcalibur 1.8. This will avoid station IQ errors and possible other issues.

5 Resolved Issues

This chapter describes the issues that have been resolved with the release of SII for Xcalibur 1.8.

Many trivial and minor issues have been resolved but are not mentioned here.

If you require information about the status of an issue observed in the previous SII for Xcalibur release that is not listed here, please contact your local Thermo Fisher Scientific representative for more information.

The numbers in the first column of the table refer to the Thermo Fisher Scientific tracking IDs.

ID	Description
264806	If using Xcalibur 4.5 or 4.5 SP1, or TraceFinder 5.1 SP3, direct control and instrument setup are not available. It is necessary to install additional config. files provided on the media. Further details are available in the readme.txt file provided on the media. The extra files are no longer required for Xcalibur 4.7.

6 Limitations and Known Issues

This section describes the known issues that have not been resolved with the release of SII for Xcalibur 1.8.

The numbers in the first column of the table below refer to the Thermo Fisher Scientific tracking IDs.

ID	Description
CM7-23452	In rare cases, installation of MSFileReader results in a mfc120.dll missing error. When configuring a new instrument in SII for Xcalibur the message states: <i>“Trying to configure a new instrument in SII for Xcalibur Configuration resulted in an error: The program can't start because mfc120.dll is missing from your computer. Try reinstall the program to fix this problem.”</i> To resolve this error, remove all instruments from Xcalibur Configuration and run repair from the SII disk.
120000	LC Method Transfer: Running an instrument method with Method Transfer activated leaves the system in a state with modified GDV. To run a method without the Method Transfer option afterwards, the idle volume of the sampler must be manually reset to its normal value.

