SimcenterTM FlothermTM XT Release Highlights

Software Version 2310 October 2023



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Introduction

This document provides a high-level summary of this release of SimcenterTM Flotherm XTTM software. It includes a summary of the new features in this release, any authorization code changes required, any major installation changes, and any transitioning issues you should be aware of before installing.

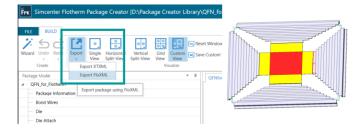
New Features

The following new features are available in this release:

- Model the Complexity New Package Styles in Simcenter Flotherm Package Creator.
 - Two new package styles added.
 - Flip Chip CBGA
 - Wirebond CBGA

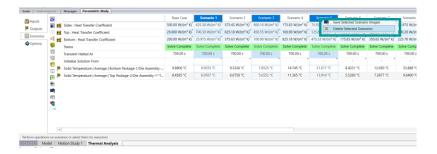


- Model the Complexity Export Simcenter Flotherm ready detailed package models from Simcenter Flotherm Package Creator.
 - Uses the floxml format which can be directly read into Simcenter Flotherm.



- Model the Complexity Increased options for defining pressure drop treatment of Fans and Flow Devices
 - Increases modelling accuracy in a variety of circumstances.
 - Free blowing pressure increase
 - Current option

- Only option available if swirl is switched on.
- *NEW*, total pressure increase.
- NEW, static pressure increase.
- Explore the Possibilities. Improved project management in parametric study.
 - Delete multiple scenarios at once.
 - Multi select scenarios.
 - CTRL and SHIFT keys operate to select blocks of scenarios or individual ones in scenario table.
 - Right click menu to access delete command.



- Explore the Possibilities. Scripting Capabilities in EDA Bridge.
 - Record a workflow and play back to repeat process on another board.
 - Note that scripting support is available for commands in the main window only at this time.
- Stay Integrated Export projects in xtxml format.
 - File extension xtxmlp to indicate project that can be opened in another instance of Simcenter Flotherm XT.
 - o Includes project set up data.
 - Transient project data written to file.
 - Exclusions from file.
 - Suppressed components not included.
 - Time patches for transient simulation omitted.

For a detailed list of new features, refer to your product specific release notes manual or

README file, available in the installed software tree or on Support Center.

Licensing

This release uses the Mentor Standard Licensing v2019_3. v2019_3 requires a FLEXnet license server running at version 11.16.4.0 or higher.

If you use server-based licenses, you will need to update the license server accordingly. Download the latest Siemens License Server Installer from Support Center:

https://support.sw.siemens.com/en-US/product/1586485382

Authorization Codes

No changes to authorization codes are required for this release.

You can download your existing authorization codes from Support Center -> Account Center -> Licenses:

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account.sw.siemens.com/licenses
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For additional information on licensing, refer to the *Siemens Digital Industries Software Licensing Manual for Mentor Products*.

New Cloud-Based Documentation Access in Simcenter Flotherm XT 2310 Release

The Simcenter Flotherm XT 2310 release provides an improved method to access your Siemens Digital Industries Software product documentation. The default option serves your product documentation from Support Center, giving you immediate access to the latest release-specific documentation, enhanced search of HTML and PDF files, and (if you use translated documentation) full multi-language search. This new method also eliminates the requirement to install product documentation as part of the local software installation.

For easy access, we offer an option to view Support Center documentation using a documentation proxy on your network. This documentation proxy removes the need for your users to have a Support Center account or to log into Support Center to view documentation.

We understand that some customers use our products on restricted networks without internet access. You have the option to download the documentation and set up a Siemens Documentation Server to view the documentation package on your local network.

See "Configuring Documentation Access" in the *Simcenter Flotherm XT 2310 Installation Guide* for instructions to set up the documentation proxy or the documentation server.

Supported Platforms

Supported Operating Systems (Full Software).

- Microsoft Windows 11 Version 21H2, 22H2 (64 Bit Pro and Enterprise).
- Microsoft Windows 10 Versions 21H2 and 22H2 (64 Bit Pro and Enterprise).
- Microsoft Windows Server 2019 Version 1809, (64 Bit Standard Edition).
- Microsoft Windows Server 2016 Version 1607, (64 Bit Edition).

Supported Operating Systems (Solver Only).

- Linux RHEL 7.9 x64.
- Linux RHEL 8.9 x64.
- Linux SUSE SLES 12.5 x64.

Note that supported operating systems may change. For most up to date information please refer to Support Center documentation.

Localized Languages

- Japanese
- Simplified Chinese

Hardware Requirements

The following minimum hardware is required to run Simcenter Flotherm XT 2310:

- 64-bit capable AMD processor or an Intel processor.
- Solid Works certified graphics card information available from https://www.solidworks.com/support/hardware-certification/.

Compatible releases

The following releases are compatible with Simcenter Flotherm XT 2310:

SmartPCB.

- For full HyperLynx PI co-simulation HyperLynx PI VX 2.11, VX 2.10 and VX 2.8
 - Note that HyperLynx VX2.12, VX2.13 and VX2.14 are not currently supported.

- For power map import HyperLynx PI V8.2.1 through VX2.11.
 - Note that HyperLynx VX2.12, VX2.13 and VX2.14 are not currently supported.

For external optimizer option in parametric study:

HEEDS 2210.

Note: To support a particular version of Simcenter Flotherm XT the portal setting in HEEDS™ software need to be adjusted to use the appropriate Simcenter Flotherm XT executables.

- In HEEDS go to File \ Options \ Analysis Portals.
- Select Simcenter Flotherm XT.
- Set "Solver Install" to correct location:
 - For Simcenter Flotherm XT 2310 the default location following installation is "C:\Program Files\Siemens\SimcenterFlothermXT\2310.0\FTXT\NGP\bin\ NGP_ParametricStudyStarter.exe"

File Imports and Exports

For import / export from / to CAD system or neutral file formats, refer to documentation for Solid Works 2023. Supplied with software (XT Help \ Geometry Help) or online (Welcome to SOLIDWORKS Online Help - 2023 - SOLIDWORKS Help).

Import *.xtxmla files exported from versions of Simcenter Flotherm Package Creator up to version 2310.

Import *.xtxmlp and *.xtxmlp files exported from Simcenter Flotherm XT up to version 2310.

Import *pdml and *.pack files exported from versions of Simcenter Flotherm up to 2304. (Note that unsupported features are ignored).

Supported ECAD Files (Import only via EDA Bridge)		
Xpedition Layout or	*.cce, *.cc	Xpedition Enterprise Flow all
Expedition PCB		versions,
		Expedition Enterprise 7.9.3 and
		later
PADS Professional	*.cce	All versions
PADS Standard	*.cce	VX.2
ODB++ Archive	*.tar.gz, *.tgz, *.tar	Version 7 and 8 (8 recommended)
IPC	*.xml	IPC2581 Revision B
IDF	Board definition *.emn, *.bdf,	Version 2.0 and 3.0
	*.brd, *.idb	
	Component definition *.emp,	
	*.idf, *.lib, *.pro, *.idl	
Prostep	*.idx, *.idz, *.xml	Version 3.0

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