

### Elements 2022.1

#### AVAILABLE PLATFORMS

Elements has been tested & certified on the following platforms:

- Windows 10 (version 21H2)
- Windows 11 (version 21H2)

#### INSTALLATION

##### INSTALLING

Windows users can double-click the `elements_2022.1_windows64.exe` to run the installation program.

##### LICENSING

A valid license file is required to run Elements. Authorization codes are e-mailed to you by Hexagon. A license can be configured as:

1. An MSC License server (ex: `27500@licserver.your.company`),
2. Or simply a license file on disk (ex: `c:\license\license.dat`)

The installation procedure prompts the user for either of these options. Note that the installation procedure creates or modifies the `MSC_LICENSE_FILE` environment variable with the specified path. Users may edit this environment variable in Windows Control Panel by searching for 'environment'.

##### MICROSOFT VISUAL C++ COMPILER

Creating compiled FMUs from Elements requires a C++ compiler. It is recommended to have the Microsoft Visual C++ compiler from Visual Studio Professional 2017, 2019 or 2022. These compilers create optimized code that runs efficiently.

If the Microsoft C++ compiler is not found on the system, Elements can compile code using the Tiny C Compiler (installed with Elements). This compiler does not have the same code optimization abilities as Microsoft Visual C++.

Visit the Microsoft website to obtain the Visual C++ compiler:

Latest Visual C++ compiler: <https://visualstudio.microsoft.com/vs/features/cplusplus/>

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Older versions: <https://visualstudio.microsoft.com/vs/express/>

The 'Community' edition of the compiler is expected to work properly but has not been explicitly tested/certified.

### CUSTOMER FEEDBACK & DISCUSSION

Contact Support, search the Documentation, search the Knowledge Base and more using the [Elements Support Home Page](#).

### SMARTFMU

A key feature in the initial release of Elements is the new SmartFMU functionality. SmartFMUs make it easier to create, debug and maintain co-simulation models involving Elements, Adams and/or Easy5. See [here](#) for an overview of the SmartFMU and visit [this article](#) for an example showing how Elements can be used to create a controller component which is imported into Adams and then easily modified & updated.

### KNOWN ISSUES

Known Issues for this release include the following:

Issue ID	Description
ELEMS-508	Documentation within a SmartFMU may have broken html links: If users inspect unused html files within a SmartFMU they may encounter broken html links.
ELEMS-502	Missing library pop-up notifications may not report the Elements product name properly.
ELEMS-501	Lack of detail in messages when loading a model and associated licenses are missing.
ELEMS-498	Help documentation missing for Toolboxes such as Control Design
ELEMS-484	License-free FMU creation is missing a checkbox option.
ELEMS-389	Error message is needed when reading a model with unsupported blocks. Currently the model can be opened but unsupported blocks will produce errors.
ELEMS-387	Filled shapes, from the drawing tools, can obscure connections in the model.
ELEMS-382	Too many decimal places displayed for Point Probe in Plot Window.
ELEMS-369	Some tooltip text not displaying properly for Chinese localization version.

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