

SIMULUS Documentation

SIMULUS provides a large set of reference documentation, containing both auto-generated content from design but also manual content.

The SIMULUS reference documentation site is available at: <https://sim.spacecodev.org/docs>.

Navigating the SIMULUS reference documentation

SIMULUS versions

The SIMULUS reference documentation is provided independently for each version of SIMULUS. The main differences implemented in a new version of SIMULUS are described in the Software Release Notes which can be found in **SIMULUS - SRN - Implemented Changes**. Important information about breaking changes are described as well in the **Special notes**, also part of the SRN.

Top Level documentation structure

The reference documentation top level is structure according to the [projects](#) composing SIMULUS. In addition a top level **SIMULUS** chapter provides product level documentation for the complete SIMULUS framework. This includes important documents such as:

- [Software Release Notes](#)
- [Configuration and Installation Guide](#)
- [Development Process](#)
- [Developer Guidelines](#)

Structure of project documentation

For each SIMULUS projects a set of reference documents are provided:

- **Interface Control Document:** description of the SMP interfaces defined in the project as well as other external interfaces of interest. Some of the subchapters included are:
 - System Design Overview: brief description of the interfaces defined in the project.

- **Software Interfaces Design:** auto-generated documentation of SMP interfaces.
- **Data Interfaces Documentation:** description of external data interfaces (e.g. input or output file formats, communication protocols)
- **Software Detailed Design:** description of the architectural design of the project and its defined models. Some of the subchapters included are:
 - **System Design Overview:** brief description of the models defined in the project.
 - **Software top-level architectural design:** brief description of the project design.
 - **Software Product Components:** detailed description of the models defined in the project.
 - **Detailed design documentation:** auto-generated documentation of SMP models.
 - **Data types definition:** auto-generated documentation of SMP data types.
- **Software Requirements Specification:** requirements that drive the design of the project.
- **Software Test Plan:** definition of tests used to validate the project.
- **Software Test Report:** results of the execution of the project tests.
- **Software User Manual:** description of the capabilities and usage of the project. Some of the subchapters included are:
 - **Overview Section:** brief description of the components and usage of the project.
 - **Instruction Section:** detailed instructions for the usage of the project.
 - **Reference Section:** auto-generated documentation of SMP published elements.
- **Technical Notes:** additional technical documentation related to the project.