



syncAXIS control Configurator

syncAXIS control **V1.8.0**

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1 About this Manual

This manual describes the software
SCANLAB **syncAXIS control Configurator**.

Notice!

Carefully read the document "syncAXIS control Software License Agreement" before installing and using syncAXIS control. This agreement defines matters such as terms of usage, warranty information and liability disclaimers. If you have questions, simply contact SCANLAB.



Caution!

Read and observe all safety instructions in this manual!

SCANLAB accepts no liability for damages or consequential losses resulting from non-observance of this manual, in particular the safety instructions contained herein.

1.1 Related Documents

- RTC6 Manual
- "syncAXIS control-DLL – Application Programming Interface" Manual
- "Installation of SCANLAB XL SCAN Components and Initial Operation of the XL SCAN System" Manual
- "syncAXIS control Viewer" Manual
- "syncAXIS control Configurator" Manual
- "syncAXIS control Master-Slave-Synchronizer" Manual

1.2 Manufacturer

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1.3 Glossary

syncAXIS control instance	A software object which is created in the PC-RAM when a valid <code>syncAXIS controlConfig.xml</code> is called by a syncAXIS control-based user program.
<code>syncAXIS controlConfig.xml</code>	XML configuration file. Although the file name can be freely chosen, it is denominated as " <code>syncAXIS controlConfig.xml</code> " throughout this document. The complete tag descriptions can be found in " syncAXIS control-DLL – Application Programming Interface " Manual, Chapter 13 " Appendix F: Reference of syncAXISConfig.xml Tags ", page 357.
XML configuration file	<p><code>syncAXIS controlConfig.xml</code>. Text file in XML format. Contains the parameter values ("configuration") with which a syncAXIS control-DLL-based user program initializes the syncAXIS control instance, see "syncAXIS control-DLL – Application Programming Interface" Manual, Chapter 2.4 "About Initializing syncAXIS control-based User Programs", page 26.</p> <p>It consist of several sections, for example, <code>RTCCConfig</code> and <code>LaserConfig</code>.</p> <p>Example for <code>RTCCConfig</code>:</p> <pre><cfg:RTCCConfig> <cfg:BoardIdentificationMethod>UseFirstFound </cfg:BoardIdentificationMethod> <cfg:ProgramFileDirectory /> <cfg:Boards> <cfg:RTC6> <cfg:SerialNumberSerialNumber>0</cfg:SerialNumber> <cfg:HeadA>ScanDevice1</cfg:HeadA> <cfg:HeadB>Stage1</cfg:HeadB> </cfg:RTC6> </cfg:Boards> </cfg:RTCCConfig></pre> <p>For further information refer to "syncAXIS control-DLL – Application Programming Interface" Manual,</p> <ul style="list-style-type: none"> • Chapter 2.2.3 "Configuring Safe syncAXIS control Instances", page 20 • Chapter 13 "Appendix F: Reference of syncAXISConfig.xml Tags", page 357

2 syncAXIS control Configurator

2.1 Intended Use

syncAXIS control Configurator is a software (with GUI, [Figure 1, page 7](#)) for processing [XML configuration files](#) for syncAXIS control-DLL-based user programs.

With syncAXIS control Configurator, new [XML configuration files](#) can be created as well as existing files can be loaded and edited.

2.2 System Requirements

As with syncAXIS control-DLL.

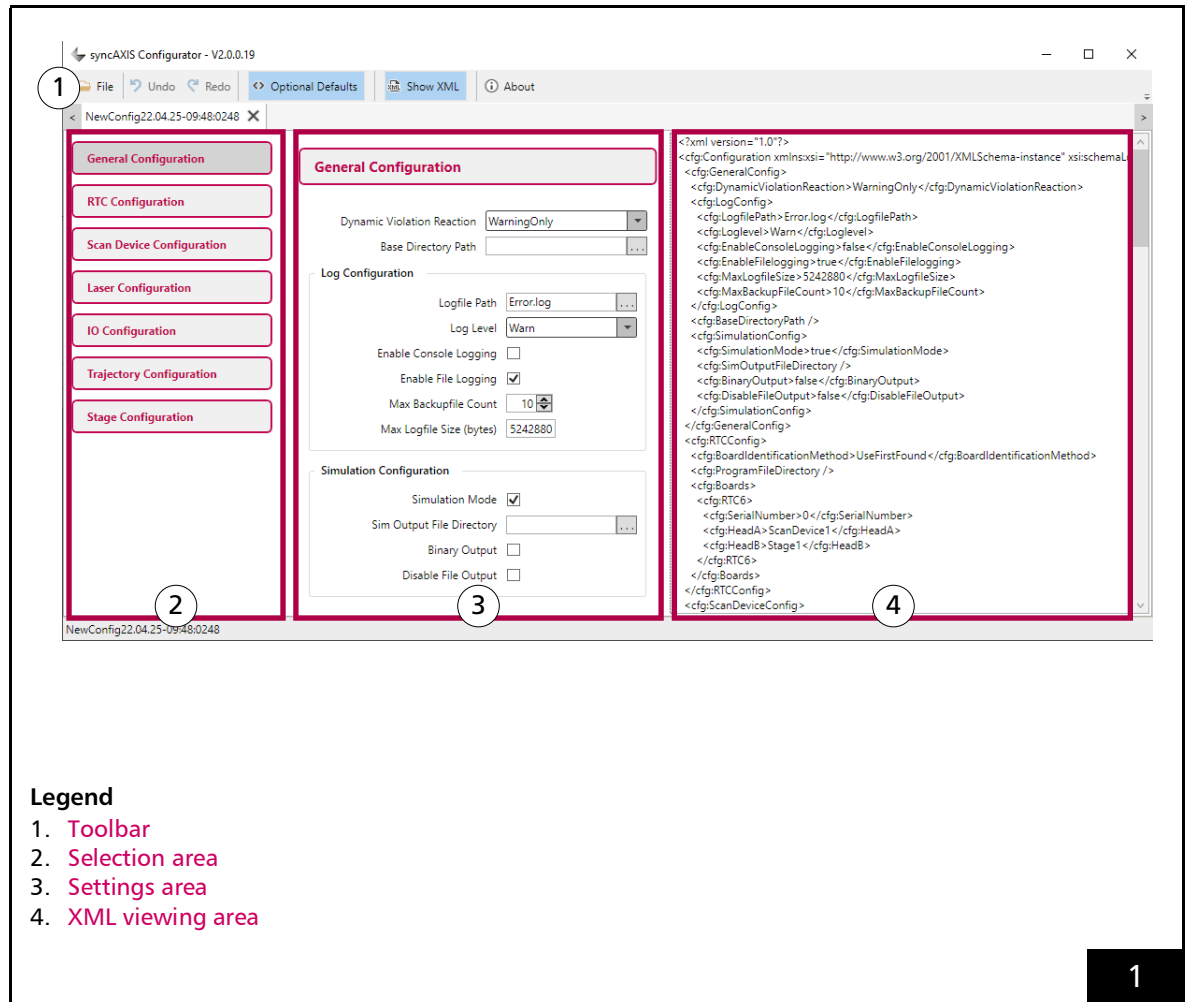
2.3 Installing and Starting syncAXIS control Configurator

- (1) Copy all delivered files to an target folder on your system.
- (2) Start `syncAXIS control Configurator.exe`.
syncAXIS control Configurator is opened.

Alternatively, you can start the program via command line arguments. Here you also can configure the graphical user interface and the simulation files to be loaded. You have the following possibilities:

- Argument in commando line:
`syncAXIS control Configurator.exe [OPTION]... [FILE]...`
With no [FILE] syncAXIS control Configurator opens in default screen and ignore options (multiple [XML configuration files](#) are allowed).

2.4 Graphical User Interface (GUI)



syncAXIS control Configurator main window: areas.

Toolbar

Here you can create a new **XML configuration file (New)**, open an existing one (**Open**), or save an edited one (**Save/Save As**). See also [page 8](#).

Furthermore, available are:

- an **Undo/Redo** function
- a switch-on/off function
 - of **Optional Defaults** (see [page 8](#))
 - of the **XML viewing area (Show XML)**
- A button to display program information (**About**)

Selection area

Here you can choose the partial configuration to set. The selected partial configuration is shown in the **Settings area** and can be edited there.

Settings area

Here you can perform the respective settings for the partial configurations selected in the **Selection area**. Note that some setting options only appear when you switch the configuration item from **Hide** to **Show**.

In the partial configuration **Laser Configuration -> Automatic Laser Control** and **Motion Decomping -> Heuristic Configuration** you can configure curves:

- Click the **Edit** button and enter the respective values in the dialog. Import, export, copy, and paste functions are available here.

Note: The settings for the curves will be lost when the respective area is closed by clicking the **Hide** button!

XML viewing area

Here the current **XML configuration file** is shown in text form (after click on **Show XML** in the **Toolbar**). The view is updated immediately as soon as you make changes in the **Settings area**

Notes for Using the syncAXIS control Configurator

- If an **XML configuration file** is opened in that has been created by an older syncAXIS control Configurator version, it is automatically updated to the current version. A corresponding message is shown in the main window. Save as an old version is not possible.
- With the button **Optional Defaults** in the **Toolbar**, all optional XML tags and attributes can be written in the **XML configuration file**. They are also shown in the **XML viewing area**. When creating a new **XML configuration file (New)**, the optional defaults are initially not in the file. When setting some optional defaults in the **XML configuration file** already, these setting are not be overwritten by the **Optional Defaults** function.
- The last settings are saved and displayed again at the next start. That means area sizes, view options and loaded **XML configuration files** are shown again when starting the program new.

3 Change Index

The following are changes in this manual due to the technical evolution of the product as well as significant editorial changes.

Changes to document revision **1.5.0 en-US** from document revision 1.4.0 en-US

Where	What
Global	Document Revision <ul style="list-style-type: none"> • 1.5.0 en-US applies to syncAXIS control-software package <ul style="list-style-type: none"> • V1.8.0
Change Index, page 9	



Notes