



# syncAXIS Configurator V1.6

syncAXIS control

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(Doc. Rev. 1.2 e - 17. June 2021)

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## 1 syncAXIS Configurator

This manual describes the tool syncAXIS Configurator V1.6 from SCANLAB.

### 1.1 Manufacturer

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### 1.2 System Requirements

- As with syncAXIS control.

### 1.3 Related Documents

- Manual "syncAXIS-DLL – Application Programming Interface"
- Manual "Installation of SCANLAB XL SCAN Components and Initial Operation of the XL SCAN System"

### 1.4 Intended Use

syncAXIS Configurator is a tool (with GUI) for creating of XML configuration files for syncAXIS control. With the tool, new XML configuration files can be created as well as existing files can be loaded and edited.

### 1.5 General Information about XML configuration files

An XML configuration file for syncAXIS (for example `syncAXISConfig.xml`) contains a configuration of all system parameters in syncAXIS control. The files consist of several partial configurations of for example RTC or scanner. Every XML tag of an XML configuration file starts with `cfg:` and continues with an element, possible attributes and the content. Here is an example for the partial configuration to the RTC:

```
<cfg:RTCCfg>
  <cfg:BoardIdentificationMethod>UseFirstFound
</cfg:BoardIdentificationMethod>
  <cfg:ProgramFileDirectory />
  <cfg:Boards>
    <cfg:RTC6>
      <cfg:SerialNumber>0</cfg:SerialNumber>
      <cfg:HeadA>ScanDevice1</cfg:HeadA>
      <cfg:HeadB>Stage1</cfg:HeadB>
    </cfg:RTC6>
  </cfg:Boards>
</cfg:RTCCfg>
```

XML configuration files are used to define various system parameters of syncAXIS control. The XML configuration file is imported by the program.

For further detailed information about XML configuration files and the description of all `syncAXISConfig.xml` tags, see manual "syncAXIS-DLL – Application Programming Interface":

- in chapter 2.2.3: Configuring Safe syncAXIS control Instances
- in appendix E: Reference of syncAXISConfig.xml Tags



## 1.6 Program Installation and Start

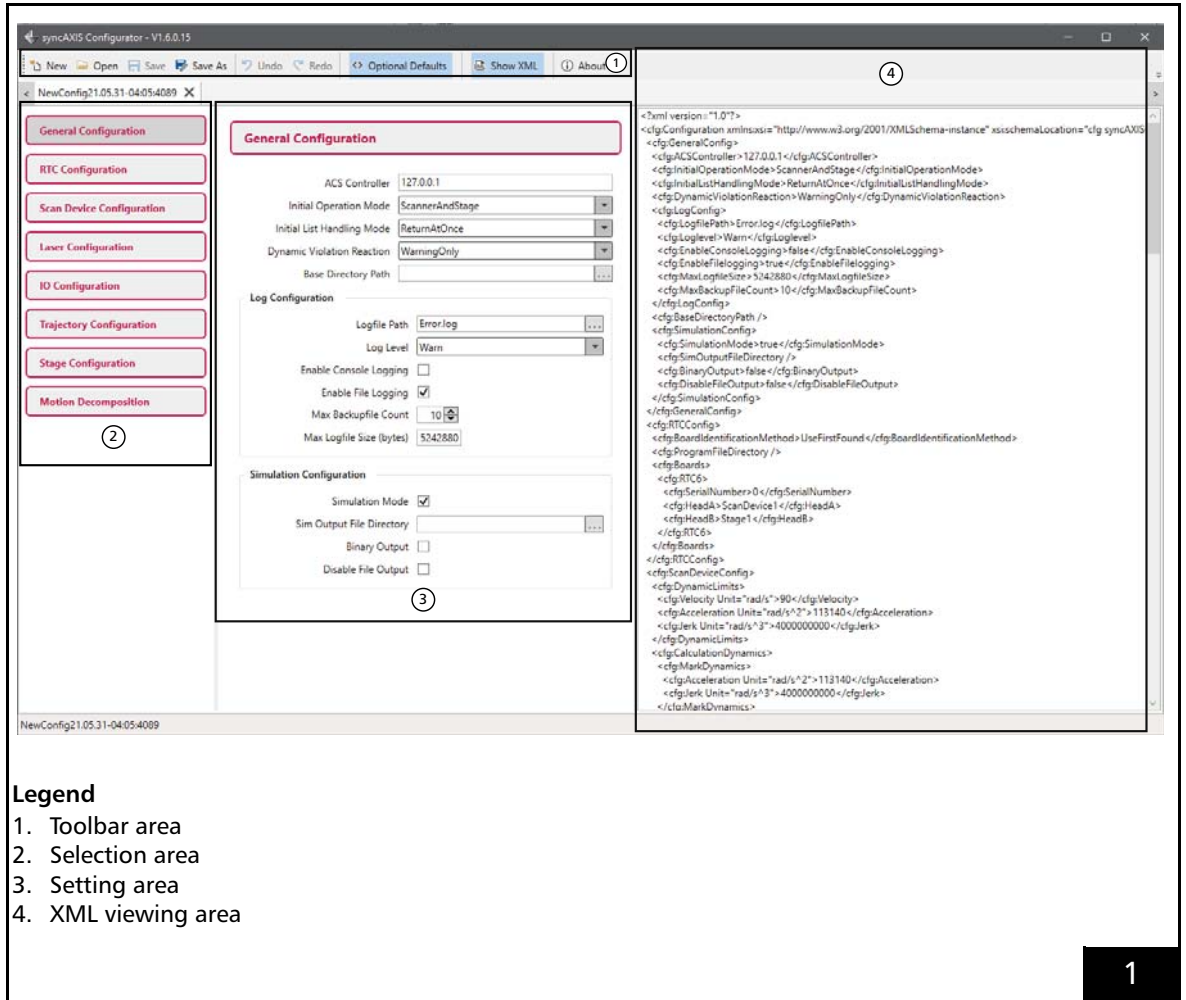
- Copy all delivered files to an installation folder on your system.
- Start **syncAXIS\_Configurator.exe**.  
The program is opened.

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\_Configurator.exe [OPTION]... [FILE]...**  
With no [FILE] syncAXIS Viewer opens in default screen and ignore options (multiple files are allowed).

## 1.7 Graphical User Interface (GUI)

The main window of syncAXIS Configurator is split in four areas:



### Legend

1. Toolbar area
2. Selection area
3. Setting area
4. XML viewing area

Areas of the syncAXIS Configurator V1.6 main window

### Toolbar Area

Here you can create a new XML configuration file (**New**), load an existing one (**Open**), or save an edited one (**Save/Save As**). Further, an **Undo/Redo** function, a switch-on/off function of **Optional Defaults** (see [page 6](#)) and of the XML viewing area (**Show XML**), and a button to display program information (**About**) is available in the toolbar area.

### Selection area

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

### Setting area

Here you can change the settings for the selected partial configuration. 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 Decompsing** -> **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. Changes in the selection area are inserted in the XML text immediately.

## **1.8 Notes for Using the syncAXIS Configurator**

- With the button **Optional Defaults** in the toolbar area, 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 settings are not overwritten by the **Optional Defaults** function.
- If an XML configuration file which was created with an older syncAXIS Configurator Version is imported to the syncAXIS Configurator Version 1.6, the file will be updated to version 1.6 automatically. A corresponding message is shown in the main window. Save as an old version is not possible.
- All program settings are saved in the program and are shown again when restart the program. That means area sizes, view options and loaded XML configuration files are shown again when starting the program new.