

# What do we have now?

- Sardana training materials
- Sardana follow-up meeting materials
- Sardana wiki with links to articles, etc.
- Sardana issues/pr discussions
- SEPs
- Sardana web page [www.sardana-controls.org](http://www.sardana-controls.org) that contains links to:
  - Home Page
  - Project Page (github)
  - Download from PyPI
  - Sardana 2.4 documentation

## Sardana Documentation - top level

(User's Guide and Developers Guide will be discussed in more details later on)

- [User's Guide](#)
  - [Overview](#)
  - [Getting started](#)
  - [Spock](#)
  - [Sardana-Taurus Widgets](#)
  - [Scans](#)
  - [Standard macro catalog](#)
  - [Screenshots](#)
  - [FAQ](#)
- [Developer's Guide](#)
  - [Overview](#)
  - [Writing macros](#)
  - [Writing controllers](#)
  - [Writing recorders](#)
  - [Sardana Testing](#)
  - [API](#)
  - [Migration guide](#)
  - [Examples](#)
  - [Development guidelines](#)

- [Sardana Enhancement Proposals](#)
- [Glossary](#)
  - Nice chapter
- [To do](#)
  - It lists missing documentation (TODOs).
  - It is autogenerated.
- [History of changes](#)
  - Competes with CHANGELOG.md
  - It could be removed
  - [History of modifications](#)
  - [Version history](#)
- [Index](#)
- [Module Index](#)
- [Search Page](#)

## Zibi's impressions about the documentation

- Users documentation is intended to be followed chapter-by-chapter. It is for the beginners.
- Developers documentation is more a reference with some hierarchical order.

Color guide:

- Highlight color:
  - green - more or less fine
  - yellow - requires work
  - red - completely missing or wrong
- Text color:
  - Links from documentation
  - Zibi's comments

## User's Guide

### ● Overview

- Requires review and small corrections. But in general OK
- [What do we “sell” to our users](#)
- [Starting a procedure](#)
- [Taurus as a toolkit for applications](#)
- [Configure – don't program](#)
  - TODO: Remove Sardana configuration GUI
- [How to write your own procedure](#)
- [How to adapt it to your own hardware](#)
  - TODO: Sketch is not visible and does not add information
- [Symbolic Sketch](#)

### ● Getting started

- [Installing](#)
  - Upgrade installation instructions on Windows
    - Could be moved to a separate, upper level chapter e.g. Installation.
- [Working directly from Git](#)
  - Could be moved to a separate, upper level chapter e.g. Installation.
- [Dependencies](#)
  - Could be moved to a separate, upper level chapter e.g. Installation.

- [Running the server](#)
- [Running the client](#)
  - sar\_demo is here.
- [Spock](#)
  - [Starting spock from the command line](#)
    - “Running the client” chapter already explains how to start spock, but it may be ok, if someone enters just to read the spock chapter.
  - [Starting spock with a custom profile](#)
  - [Spock IPython Primer](#)
  - [Executing macros](#)
  - [Stopping macros](#)
  - [Exiting spock](#)
  - [Getting help](#)
  - [Moving motors](#)
    - Could be moved to “Getting Started” chapter.
  - [Counting](#)
    - Could be moved to “Getting Started” chapter.
  - [Scanning](#)
    - Could be moved to “Getting Started” chapter.
    - Some of the environment variables are described here
  - [Using spock as a Python console](#)
  - [Using spock as a Tango console](#)
- [Sardana-Taurus Widgets](#)
  - [MacroExecutor](#)
  - [Sequencer](#)
    - TODO: Document loading from plain text
  - [Experiment Configuration](#)
    - TODO: Missing big part
  - [Sardana Editor](#)
    - TODO: Missing documentation
- [Scans](#)

- [Step scans](#)
- [Continuous scans](#)
  - TODO: what should we do with ascanc?

#### ○ [Configuration](#)

- Environment variables are defined here. This should be a link to environment variables

#### ● [Standard macro catalog](#)

- How to generate the catalogue automatically from the Sardana macros
- In general this is quite complete, maybe some recently added macros are missing.
- [motion related macros](#)
- [counting macros](#)
- [diffractometer related macros](#)
- [environment related macros](#)
- [list related macros](#)
- [measurement configuration macros](#)
- [general hooks macros](#)
- [advanced element manipulation macros](#)
- [reload code macros](#)
- [scan macros](#)

#### ● [Screenshots](#)

- could be updated but not priority
- [Sardana oriented graphical user interfaces](#)
- [Graphical user interface screen shots](#)
  - TODO: Remove Sardana configuration GUI

#### ● [FAQ](#)

- are very poorly explained, missing links
- [What is the Sardana SCADA and how do I get an overview over the different components?](#)
- [How do I install Sardana?](#)
- [How to work with Taurus GUI?](#)
- [How to produce your own Taurus GUI panel?](#)

- [How to call procedures?](#)
- [How to write procedures?](#)
- [How to write scan procedures?](#)
- [How to adapt SARDANA to your own hardware?](#)
- [How to add your own file format?](#)
- [How to use the standard macros?](#)
- [How to add conditions in macros?](#)
  - TODO: remove it
- [How to write your own Taurus application?](#)
- [Which are the standard Taurus graphical GUI components?](#)
- [How to write your own Taurus widget?](#)
- [How to work with the graphical GUI editor?](#)
- [What are the minimum software requirements for sardana?](#)
- [How to configure the system?](#)
- [How to write your own Taurus schema?](#)
- [What are the interfaces to the macro server and the pool?](#)
- [What are the data file formats used in the system and how can I read them?](#)
- [What is the file format of the configuration files?](#)
- How to access EPICS

## Developer's Guide

- [Overview](#)
  - Each of the elements contains links to the [Reference](#) (description of each of the concepts), [Sardana API](#), [Tango API](#)
  - MotorGroup is missing?
    - [Global overview](#)
      - Architecture: client - server, different configurations: Sardana, Pool, MacroServer
    - [Macro Server](#)

- Door is introduced
  - Pool
  - Controller
  - Motor
  - Pseudo motor
    - Drift Correction is here
  - IO register
  - Trigger/gate
  - Counter/timer
  - 0D experiment channel
  - 1D experiment channel
  - 2D experiment channel
  - Pseudo counter
  - Measurement Group
    - Maybe introduce actions here?
- Writing macros
  - General macro development
    - Macro result is not documented
  - Scan macro development
    - Scan hooks are explained here
    - “C” continuous scans are explained instead of “ct”
- Writing controllers
  - What is a controller
  - How to write a motor controller
  - How to write a counter/timer controller
  - How to write a 0D controller
  - How to write a 1D controller
    - Better document them after SEP2
  - How to write a 2D controller
    - Better document them after SEP2
  - How to write a trigger/gate controller
  - How to write an I/O register controller

- [How to write a pseudo motor controller](#)

- [How to write a pseudo counter controller](#)

- [Writing recorders](#)

- [Overview](#)

- [What is a recorder?](#)

- [Type of recorders](#)

- [Writing a custom recorder](#)

- [Configuration](#)

- [Sardana Testing](#)

- [General test documentation](#)

- [Run Sardana tests from command line](#)

- [Test-driven development example](#)

- [Sardana Unit Test examples](#)

- [API](#)

- [Macro API](#)

- [Controller API](#)

- [Motor API](#)

- [I/O register](#)

- [Counter/timer API](#)

- [0D experiment channel API](#)

- [1D experiment channel API](#)

- [2D experiment channel API](#)

- [Trigger/gate API](#)

- [Pseudo motor API](#)

- [Pseudo counter API](#)

- [Measurement group API](#)

- [Pool tango API](#)

- [Macro server tango API](#)

- [Library](#)

- [Macros documentation is duplicated here!](#)

- [Test API](#)



- [Migration guide](#)
  - Some part of it competes with CHANGELOG.md.
  - But it would be an interesting chapter for eventual future migration guides.
  - [How to migrate your macro code](#)
  - [How to migrate your controller code](#)
- [Examples](#)
  - [Macro examples](#)
  - [Controller examples](#)
    - Contains template - what should we do with it?
- [Development guidelines](#)
  - [Overview](#)
  - [How to contribute to sardana](#)
    - Competes with CONTRIBUTING.md
  - [Cloning and forking sardana from Git](#)
    - Duplication from how to install Sardana
    - TODO: Remove this chapter
  - [The old code repositories](#)
    - TODO: Remove this chapter.
  - [Documentation](#)
  - [Coding conventions](#)
    - Extend them, for example with variables naming lowercase with underscores, etc...