

# Tango Controls Collaboration status in 2025

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# The Tango Controls Collaboration: 26 Years!!

Tango: Not just an open-source device-oriented distributed control system

It is a **well organized** and amazing **collaboration** of institutes and private companies working in many scientific fields:

light sources, astronomical telescopes, laser facilities, neutron sources, ...

## The Tango Controls Steering Committee as of 2025



## Tango Community Meetings:

- SOLEIL (2024): <https://indico.tango-controls.org/event/261/>
- INAF (2025): <https://indico.tango-controls.org/event/422/>

## Special-Interest-Group Meetings (SIG):

- Cyber security - MAX IV, Sweden - March 2024
- Documentation - ESRF, France - October 2024

## Online:

- Website moved to new CMS: <https://tango-controls.org/>
- Ancient forum moved to Discourse: <https://forum.tango-controls.org/>
- Chat moved to Mattermost: <https://mattermost.hzdr.de/tango-controls/>
- Documentation revamped: <https://tango-controls.readthedocs.io/en/latest/>



To start developing on Tango, just get the tools from your preferred channel:

- Download Docker Images from SKAO's artefact repository
  - <https://developer.skao.int/projects/ska-tango-images/en/stable/>
- Get Tango (Python, C++, Java) from conda forge and PyPI
  - `conda install -c conda-forge cpptango pytango tango-test`
- Get Tango tools already pre-installed in the TangoBox
  - <https://tango-controls.readthedocs.io/en/latest/How-To/installation/virtualmachine.html>
- Pogo, the Tango Controls code generator for creating new Tango device classes (Java, Python and C++)
  - <https://gitlab.com/tango-controls/pogo/-/releases>

## cppTango

(stable version 10.1.1, released 2025-09-18)

- Observability: OpenTelemetry for tracing distributed calls
- Performance monitoring of the ZeroMQ event system

## PyTango

(stable version 10.0.3, with 10.1.0 pending)

- Major code maintenance, including migration to pybind11
- Observability: OpenTelemetry support
- Revised and improved asyncio mode
- Device declaration using type hints

## JTango

(stable version 9.7.4, with 10.0.0-rc1 available)

- Observability: OpenTelemetry support

➔ **cppTango** is the real core of the framework

➔ **pyTango**: de-facto default binding for Tango

➔ **JTango**-based tools are the most used for configuration of a system

### Observability:

More details in the talk **WEAG006**

*"Better software observability using Tango Controls with OpenTelemetry - experience at MAX IV."*

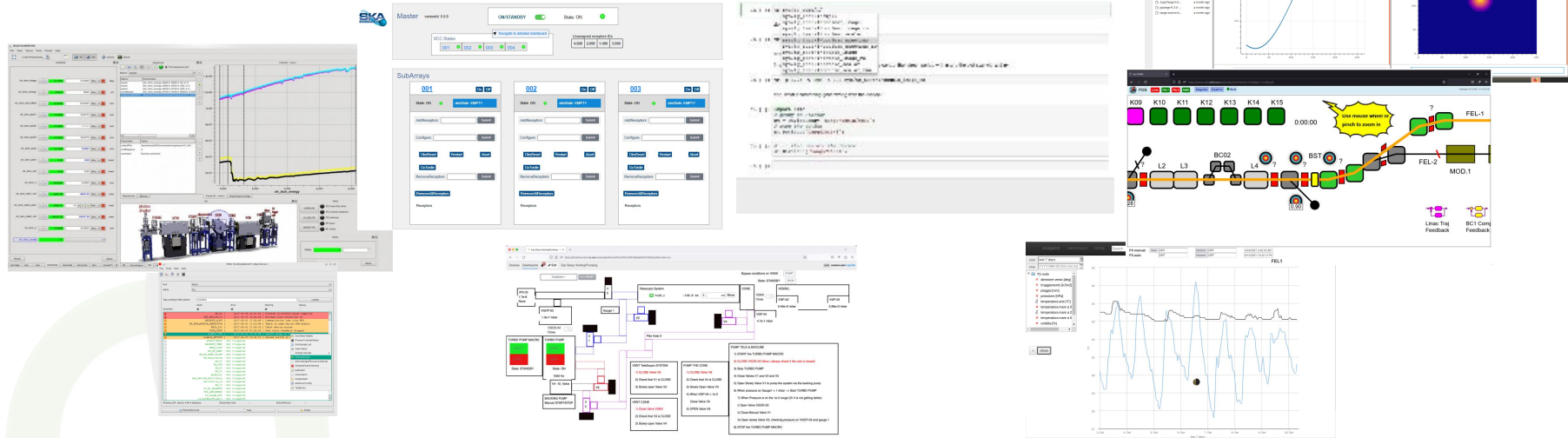
Features roadmap:

Decided by the community!

Future releases:

- **Support for overlapping LTS versions (2 years)**
- **Tango 11.x:**
  - Encryption support
  - OpenTelemetry support for the event system
  - Warning and alarm dead-band support

Taurus, Sardana, JupyTango, Taranta, Panic, SVG Synoptic, Puma, Tango GraphQL, eGiga, ArchViewer, PAnTHER



Different User Interface communities are **meeting yearly** to share experiences, organize **workshops**, **bug-squashing parties** and **documentation camps**.



## Better development dynamics

- Kernel, C++ and PyTango developers meeting every 2 weeks
- Unlocked new features by (re-)opening the Tango IDL
- Fixed release cycle
  - Releases = Milestones → Clear roadmap
- SIG meetings and workshops to push specific topics

( ) byte physics

**s<sup>2</sup>:innovation**  
Software solutions

## Vibrant community

- Number of **active code contributors** has significantly increased.
- Long-term maintenance: **3 official subcontractors** now on board
- **35 Contributions** to ICALEPCS 2025 (look for Tango stickers!)



➡ **Tango meetings are open to all!** ←

**Next Community meeting: ALBA, Barcelona, Spain, May/June 2026**

Thank you!

We want to thank Andy Götz, Emmanuel Taurel, Pascal Verdier, Manu Perez and Nicolas Leclercq who created Tango Controls 26 years ago; and also thank all the developers, contributors and users that have continued making the Tango Controls Community bigger and bigger.

**We thank you all.**



**Time for questions!**

WEAG001 - The Tango Controls Collaboration status in 2025, ICALEPCS 2025, Chicago, USA