



# cppTango: What's new this time around?



9.5.0, 9.3.6 (LTS) and the brand new 10.0.0<sub>(rc1)</sub>

# cppTango: The releases



## 10:

- 10.0.0-rc1 has just been released on 2024-05-28

## 9.5:

- 9.5.0 released on 2023-10-09

## 9.3.6 (LTS)

- released on 2023-04-02

## 9.3.7 (LTS) to be released on 2024-07-01

- 9.3.x in maintenance mode
  - Critical bug fixes only
  - No backporting of new features
  - No new features
  - 9.3.7 bug fix release planned but no date

Yes, we visit cool places! 😊

## main

## 9.3-backports

Next: minor release cppTango 10.1.0

(9.3.x **LTS** branch)

- Requires **C++17** (at least)
- Requires **CMake 3.18**

- Only requires **C++98**

Reserve the right to break API/ABI as required in this branch. However, we are conservative about breaking API.

Even binary compatibility with cppTango 9.3.x is guaranteed.

### Gitlab CI:

- Debian 11 and 12, 12-cross-32bit
- Alpine
- Ubuntu 20.04, 22.04 and 24.04
- LLVM (**17**)/GCC (**14.1**) (c++17/20/23)
- Clang-tidy, clang-analyzer
- Sanitizers (ASAN, TSAN, UBSAN)
- MacOSX x86\_64/aarch64
- MSVC 2022

### Gitlab CI:

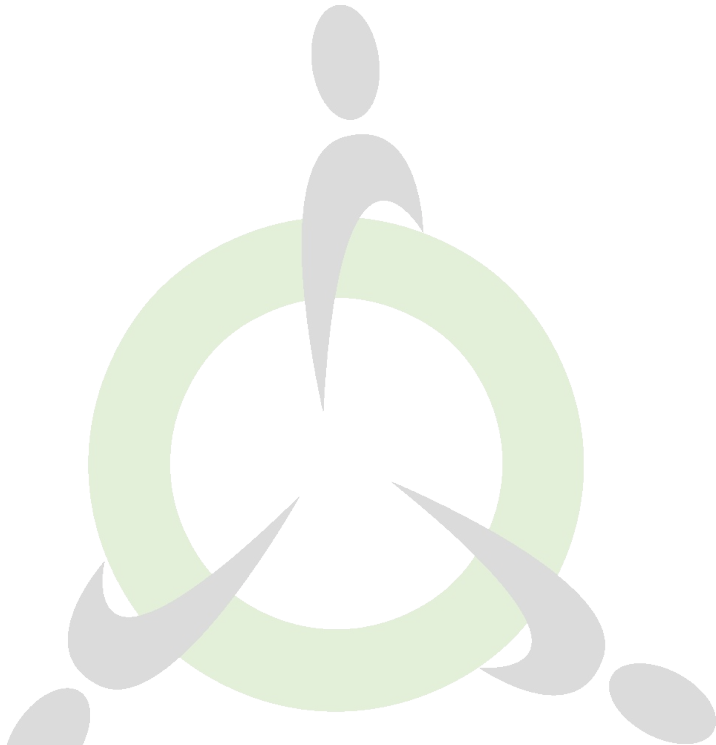
- Debian 7 (c++=\*), 8 (c++=\*), 9 (c++=\*) and 10 (c++=\* and c++98) (frozen)  
\*=distribution default
- Alpine
- GCC (8.3.0, frozen)

Appveyor: win32 and x64 for msvc9, msvc10, msvc12, msvc14 and msvc 15

Latest cppTango 9.3 LTS release:

9.3.7, to be released 2024-07-01

(Remember: 9.3 LTS support ends 2027-10-02)



★ [https://gitlab.com/tango-controls/cppTango/-/issues?label\\_name=Bug&milestone\\_title=9.3.7&state=all](https://gitlab.com/tango-controls/cppTango/-/issues?label_name=Bug&milestone_title=9.3.7&state=all)

- Setting alarm range for memorized attributes



Please refer to `RELEASE_NOTES.md` in the repository!

👉 Release notes

👉 cppTango 9.5.0 includes many bug fixes



cppTango 10.0.0-rc1 released today!

Major improvements/changes when compared to 9.5:

- New DevInfo\_6 structure
- Added Open Telemetry support
  - New Alarm event

Broken promise: Alarm hysteresis is not in Tango 10!

(We make another promise: Coming in Tango 11.

Currently, we are planning Tango 11 for ~May 2025)

The next cppTango planned release will be

cppTango 10.1.0

To be released on 2024-11-02

- ⇒ Will consolidate the new features that were added with 10.0.0 ⇐
- ⇒ Focus on our testing infrastructure to improve our release reliability ⇐





Video recordings available on tango-controls YouTube channel:  
<https://www.youtube.com/channel/UCezS9cMkektZNIYnPOAQvg>

The screenshot shows the YouTube channel page for 'tango-controls'. The channel name is 'tango-controls' with 71 subscribers. The page is organized into sections: 'HOME', 'VIDEOS', 'PLAYLISTS', 'CHANNELS', and 'ABOUT'. The 'Uploads' section is active, displaying a grid of video thumbnails. The thumbnails include:

- Tango Kernel Webinar #5 - Taurus - Part 2 (1:38:18)
- Tango Kernel Webinar #5 - Taurus - Bonus during break (6:27)
- Tango Kernel Webinar #5 - Taurus - Part 1 (1:39:38)
- Tango Kernel Webinar #4: PyTango (1:28:43)
- Tango Kernel Webinar #3 - Tango events system - ... (22:00)
- Tango Kernel Webinar #3 - Tango event system (1:09:15)

Each video thumbnail includes a view count and upload date. For example, 'Tango Kernel Webinar #4: PyTango' has 309 views and was uploaded 11 months ago. The channel also features a 'SIGN IN' button and a 'SUBSCRIBE' button.

- Kernel
  - On 2<sup>nd</sup> and 4<sup>th</sup> Thursday of the month at 15:00h (CET/CEST)
  - Agenda and minutes available on Gitlab: [tango-kernel-followup](#)
  - Status of recent development (cppTango, JTango, pyTango, POGO, RFCs, ...)
  - Technical discussions
  - Define priorities
- cppTango
  - Every Thursday, 16:00h (CET/CEST)
  - Prioritising issues
  - MR discussion
  - Feature discussion and prioritisation

# Meet the cppTango team



A random photo from our telecon. Starting at top left: Thomas Braun (byte physics e.K.), Thomas Juerges (SKAO), Reynald Bourtembourg (ESRF), Thomas Ives (OSL), Damien Lacoste (ESRF)

**Weekly meetings can be fun!**

**Please join us.**

Damien Lacoste

Damien Lacoste

<https://www.tango-controls.org/community/forum>

NEVER HAVE I FELT SO  
CLOSE TO ANOTHER SOUL  
AND YET SO HELPLESSLY ALONE  
AS WHEN I GOOGLE AN ERROR  
AND THERE'S ONE RESULT  
A THREAD BY SOMEONE  
WITH THE SAME PROBLEM  
AND NO ANSWER  
LAST POSTED TO IN 2003



You can also get some help from the experts on <https://www.tango-controls.org/community/slack/>

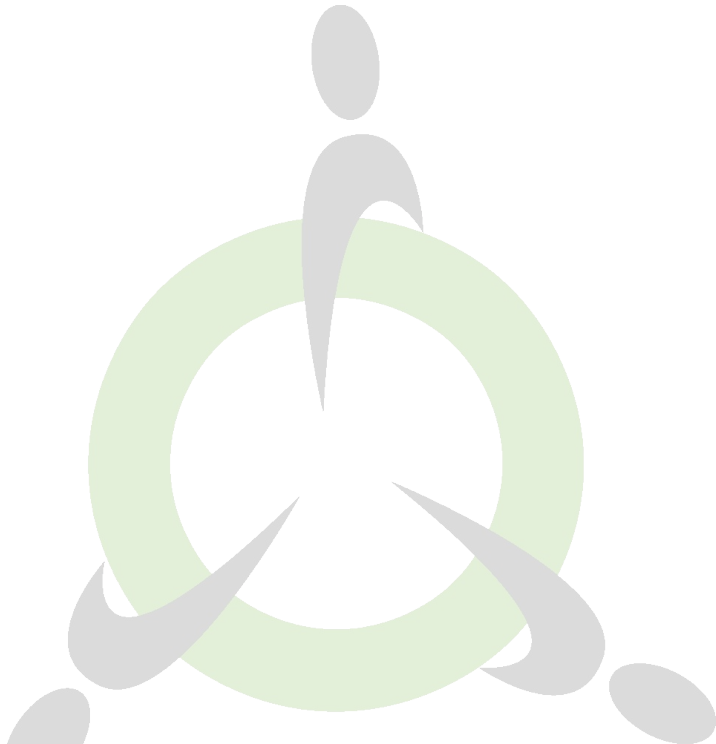


**We have started an FAQ for you!**

**It is in its infancy and we all together will add FAQs over time.**

**Please head over to:**

<https://gitlab.com/groups/tango-controls/-/wikis/The-Tango-Controls-FAQ>



# Thank you!

## Any questions?

### Acknowledgement (in alphabetic order):

Benjamin Bertrand, Damien Lacoste, Emmanuel Taurel, Grzegorz Kowalski, Guillaume Communie, Jairo Moldes, Kieran Mulholland, Mateusz Celary, Michal Liszcz, Nicolas Leclercq, Reynald Bourtembourg, Rodrigo Tobar, Sergi Rubio, Thomas Braun, Thomas Ives, Thomas Juerges, Tomasz Madej, Yury Matveyev

and so many others for their contributions (PR, bug reports, code reviews, comments, ...)

<https://gitlab.com/tango-controls/cppTango/-/milestones>

<https://gitlab.com/tango-controls/cppTango/-/issues>

<https://gitlab.com/tango-controls/TangoSourceDistribution/-/issues>