

Taranta: project status and community



Matteo Canzari (INAF - OAAb - SKAO) Yimeng Li (MAX IV)

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Introduction

- What is Taranta?
- Demo Taranta v. 1.3.2
- SKAO use cases & long-term plan
- Community: how to contribute and 1st Taranta F2F meeting
- MAX IV use cases & long-term plan











Taranta is a **web application** that allows a user to **explore Tango devices** and to create a **graphical user interface** to interact with them; the user interface may include a variety of charts, numerical indicator, dials, commands that can be used to monitor and to control devices

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Taranta is a tool used by **engineers**, **integrators** and **commissioners** for monitoring, controlling and debugging Tango devices for the telescope.

Key selling points:

- quick development of UIs
- easy to modify existing UIs
- no need for UI-related skills
- no need to use other tools





The following Users are set on SKA Taranta-Auth:

Slides from Giorgio Brajnik



A lot of improvements and new features added from the last meeting

 fix bugs, improved UI and documentation, added more tests (unit and system/integration tests)

Merge Requests merged Avg: 3.08 · Max: 6

- Renamed in Taranta
- Timeline widget
- Variables
- Box widget
- Macro Executor



Taranta SKAO Future



Roadmap - short-term plan (3 months)

- provide a new widget
 - Elasticsearch log viewer
- explore feasibility of modularity based on webpack5
- Fix some bugs

Slides from Giorgio Brajnik



Roadmap - long-term plan (12-18 months)

- usability improvements (palette, filters, config. of widgets)
- Look & feel improvements (color themes, conditional styles, digital assets, improve keyboard navigation)
- dashboards for handling alarms, for monitoring health-status
- handle tango multifacilities
- display of connectivity status of a running dashboard
- new widgets (starburst, tabbed, cyclic & active dashboards, collapsible widgets)
- synoptics (with links, with LEDs, with dynamic text info)
- telemetry, to support remote analysis of user behavior
- user-defined widgets

Slides from Giorgio Brajnik

Community: how to contribute



- Join the **#taranta-webjive slack channel** in the Tango Slack Domain (http://tango-controls.slack.com/)
- Attend the **Taranta Weekly meeting**, every Friday from 9:00 AM to 10:00 AM UTC on Google Meet (in the slack channel you will receive the details)
- Add **feedbacks**, new **desiderata** or report **bugs** in our GitLab Repository, in the Issue Section
- Contribute to code and raise your merge request

https://taranta.readthedocs.io/en/develop/install_howto_contribute.html

Community: Taranta F2F meeting







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	First Name	Last Name	Affiliation	
	Ajaykumar	Dubey	Persistent Systems	
	Arnaud	LE MEILLOUR	ESRF	
	Carlo	Baffa	Istituto Nazionale di Astrofisica (INAF)	
	Giacomo	Strangolino	Elettra Sincrotrone Trie	artecipants (11 in person)
	giorgio	brajnik	4.4.T.	
	Helder	Ribeiro	Atlar Innovation	istitutes/companies
	Leonard	Doyle	Faculty of Physics, LM	untries
	Linh	Nguyen	MAXIV Laboratory	
	Matteo	Canzari	INAF - OAAb	
	Nicolas	Leclercq	ESRF	
	Piotr	Gretkierewicz	SOLARIS National Synchrotron Radiati	
	Raphaël	GIRARDOT		
	Stephane	Deghaye	CERN	
	Valentina	Alberti		





Taranta F2F discussion



Development Process	Reliability/Stability	Frontend Improvement	Deployment Process
Track requests and bug report - Use milestone on gitlab repo - Template for issue report and MR - SKAO: separate repo for issue tracking	Unit-test - Testing-coverage report in gitlab Cl - Integrated tests (Cypress E2E tests) Time consuming analysis for large database Module Federation – Webpack 5 - Separate the widget library for easy deployment	 Plotly library Resize issue Increases the response time UI simplification Dashboard management 	Gitlab-CI for easy taranta-test deployment - Fully test - Trigger taranta-test deployment

Taranta F2F meeting outcomes



Must Have 3

Template for Merge Request and bug tracking

Development

Gitlab milestone to manage tasks

Development

Increase TangoGQL test coverage Test

+ New

Should Have 5

Responsivity, grid layout

Feature

Variable by URL

Feature

Share dashboards with other users dynamically

Dashboard management

Modularized deployment

Deployment

Module federation - Webpack 5

Development

+ New

Could Have 6

Search box for sorting widgets

Feature

Moving between dashboards in run mode

Feature

Grouping widgets for easier reusability

Widgets

Connect variables to each widget

Widgets

Dashboard versioning with MongoDB

Dashboard management

Simplify UI function

Widgets Dashboard management

Taranta MAX IV use cases



Taranta is widely used in MAX IV from accelerator operators to the beamlines. Dozens of dashboards are created for monitoring usage, device configure/control and motor movement.

Machine/Accelerators

- monitoring various systems
- motor movements

Beamlines

- Overview of equipments
- Configure parts of the experiments

Users

- engineers
- beamline staffs
- experiment users

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->/	Inboard		1 ×	Temperature: 27 C	Humidity: 5	.10 %		
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Taranta MAX IV Future



Roadmap - short-term plan

- Spinner to show the dashboard status
- Introduce the macro filtering for macro executor widget
- Support image reading from cameras/detectors
- Informative website under Tango-Control

Roadmap - long-term plan

- Support svg synoptic
- Introduce class and alias to device tree
- Improve the dashboard management
 - Create versions, dashboard groups
 - Dashboard handling alarms and health check
- Local network based application



Thank you for your attention!

Matteo Canzari - *matteo.canzari@inaf.it* Yimeng Li - *yimeng.li@maxiv.lu.se*