WebJive progress report

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Interaction Design Solutions
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Goals

To provide an overview of

- what happened since June 2020,
- where we are heading, and
- who we are

Who am I

- faculty of the Univ. of Udine, Italy
- software engineer
- co-founder of Interaction Design Solutions

- consultant for SKA
  - Lean UX specialist
  - leading the software testing activities

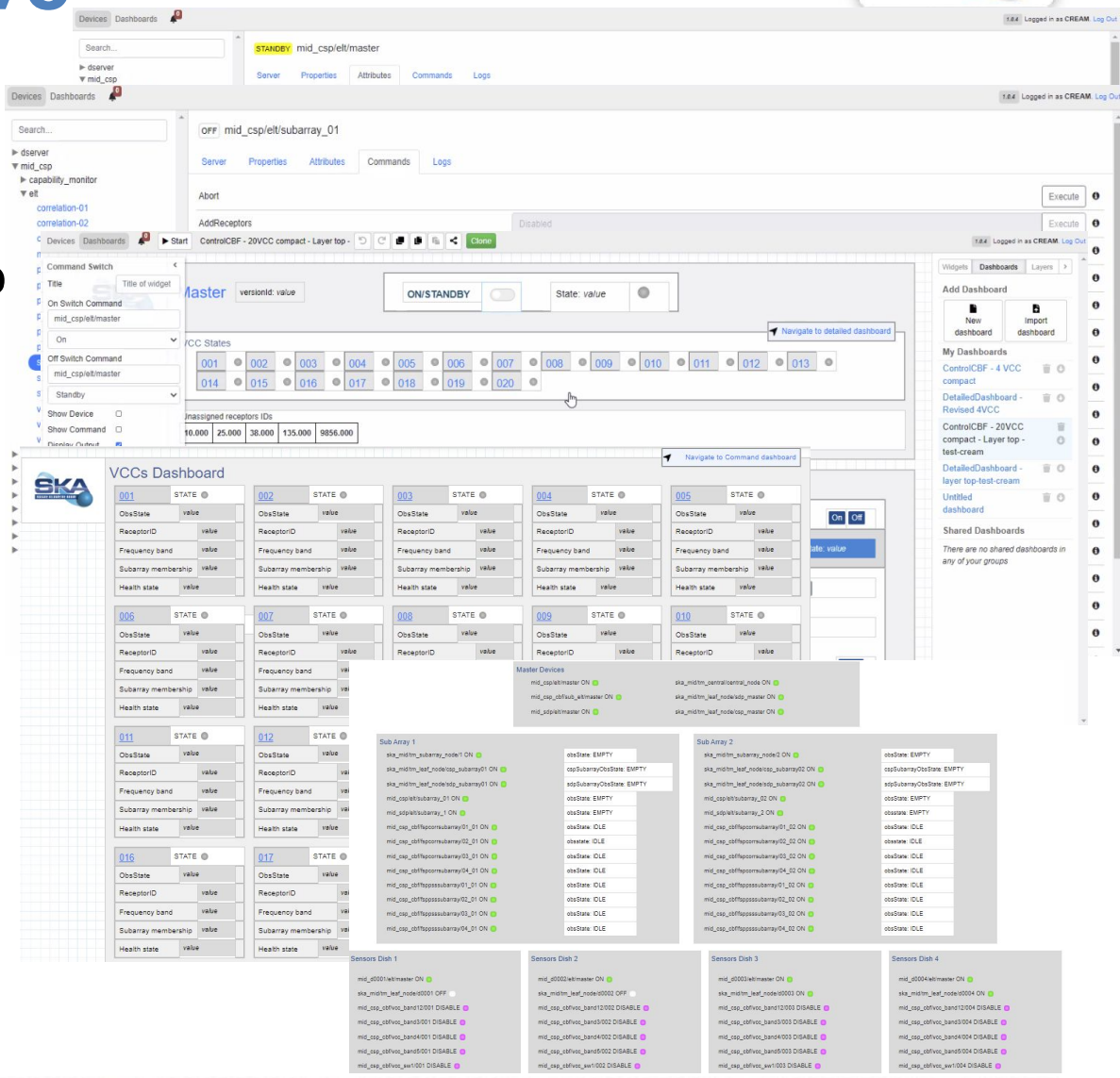
- product manager for WebJive

WebJive

What is WebJive

A web application:

- To view a list of Tango devices
- To view and modify device properties
- To view and execute device commands
- To create dashboards for interacting with devices.



Who we are aiming at

- an **engineer** that develops Tango devices
  - who needs a GUI to monitor and debug his/her devices
    ⇒ quick cycle time
    ⇒ little expertise on web technologies and UIs

- a user (like a **commissioner**)
  - who uses existing dashboards to monitor and control devices
    ⇒ relatively complex and dense dashboards
    ⇒ built by others

WebJive: recent changes

Recent changes

History of changes to WebJive

The current version is 1.0.4.

Latest changes:

- improved installation of WebJive (with kubernetes and minikube)
- added the Command File Widget
- added the Boolean Display Widget and made it customizable
- added the Command Array Widget
- added the Attribute Writer Dropdown Widget
- added the Import/Export Dashboard functionality
- revised the way in which layers are handled: drag & drop, last widget on top
- changed notifications: now they appear in a dedicated area as an overlay panel
- fixed a problem with the display of Enum's in attributes
- fixed several usability defects
- greatly improved test code coverage

Command argument upload

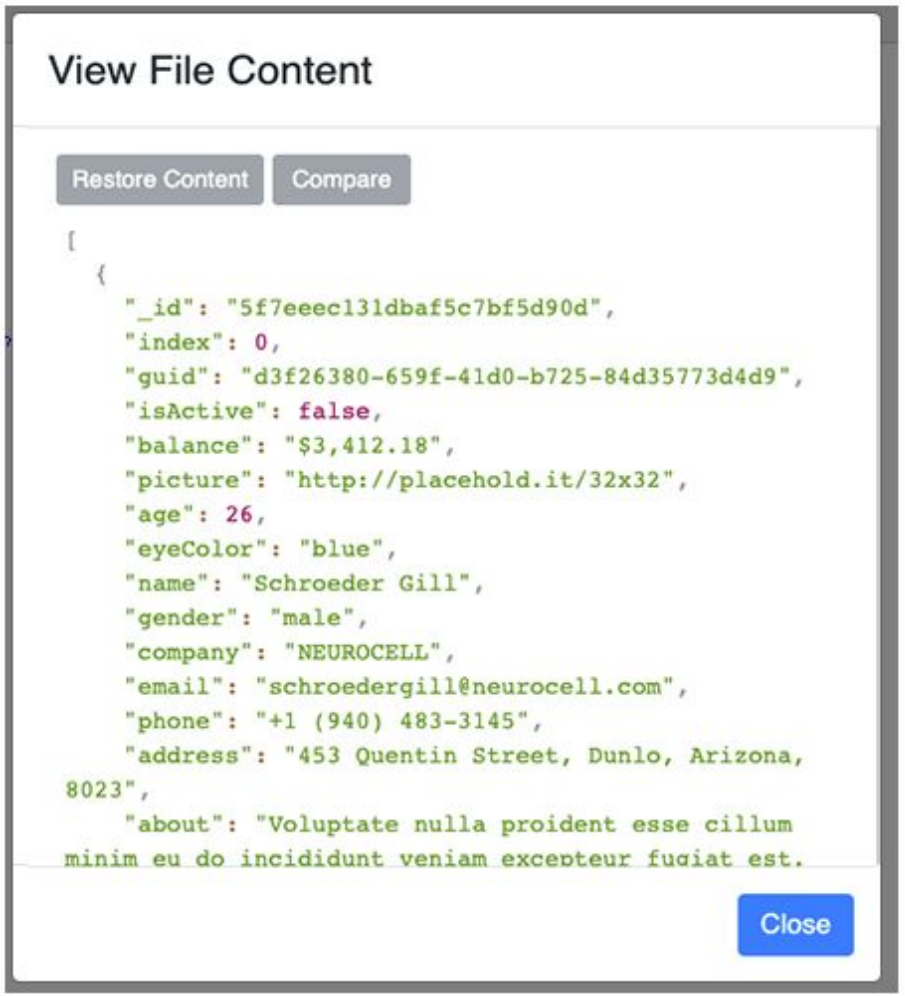
Widget with no file uploaded

Upload File *No file selected* Send DevBoolean

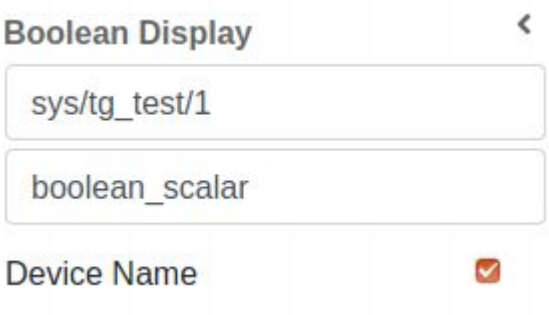
Widget with file 'untitled.txt' uploaded

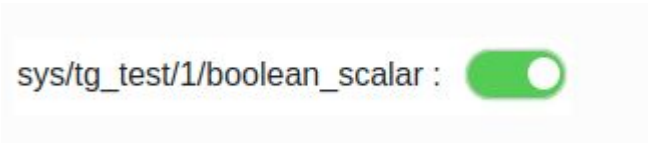
Upload File *Untitled.txt* Send DevBoolean

Uploaded file 'Untitled.txt' content



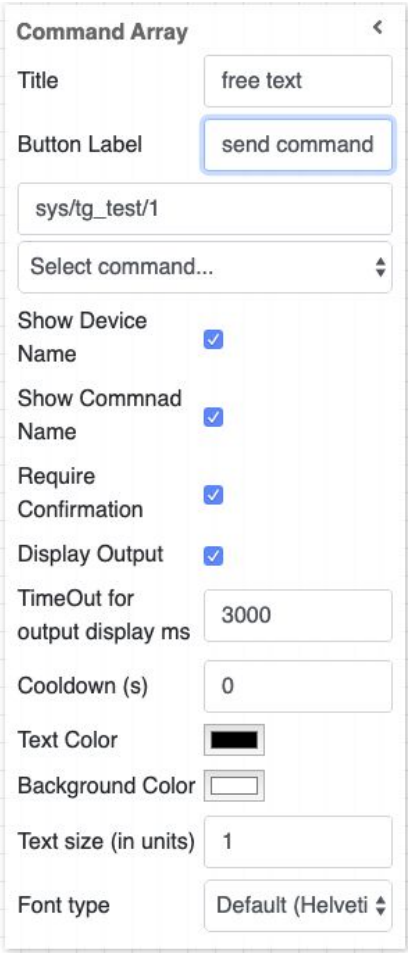
Switch widget





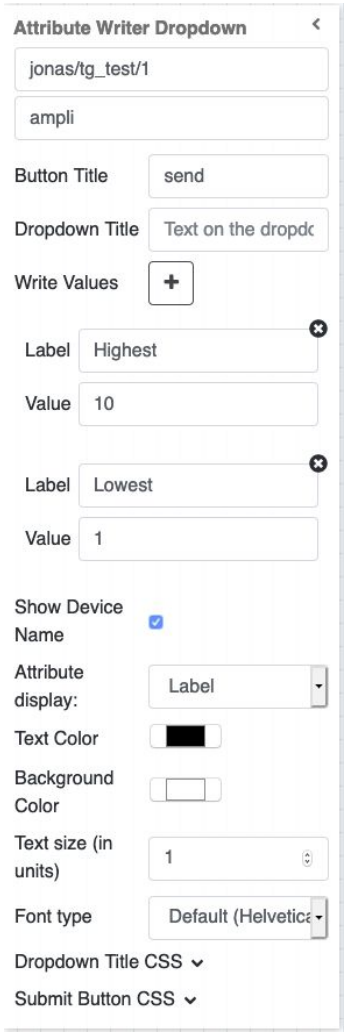
- Used for setting boolean attributes
- Customizable look & feel

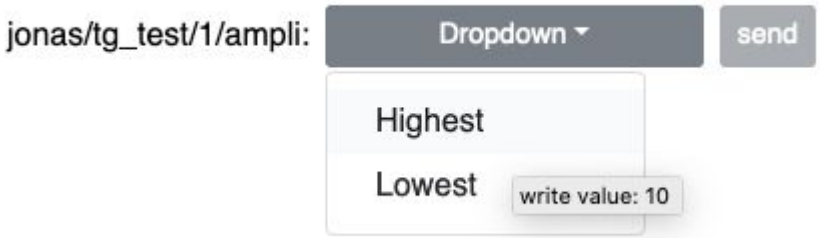
Command with array arg



sys/tg_test/1/DevVarStringArray: ["test", "test"] send command

Attribute dropdown writer



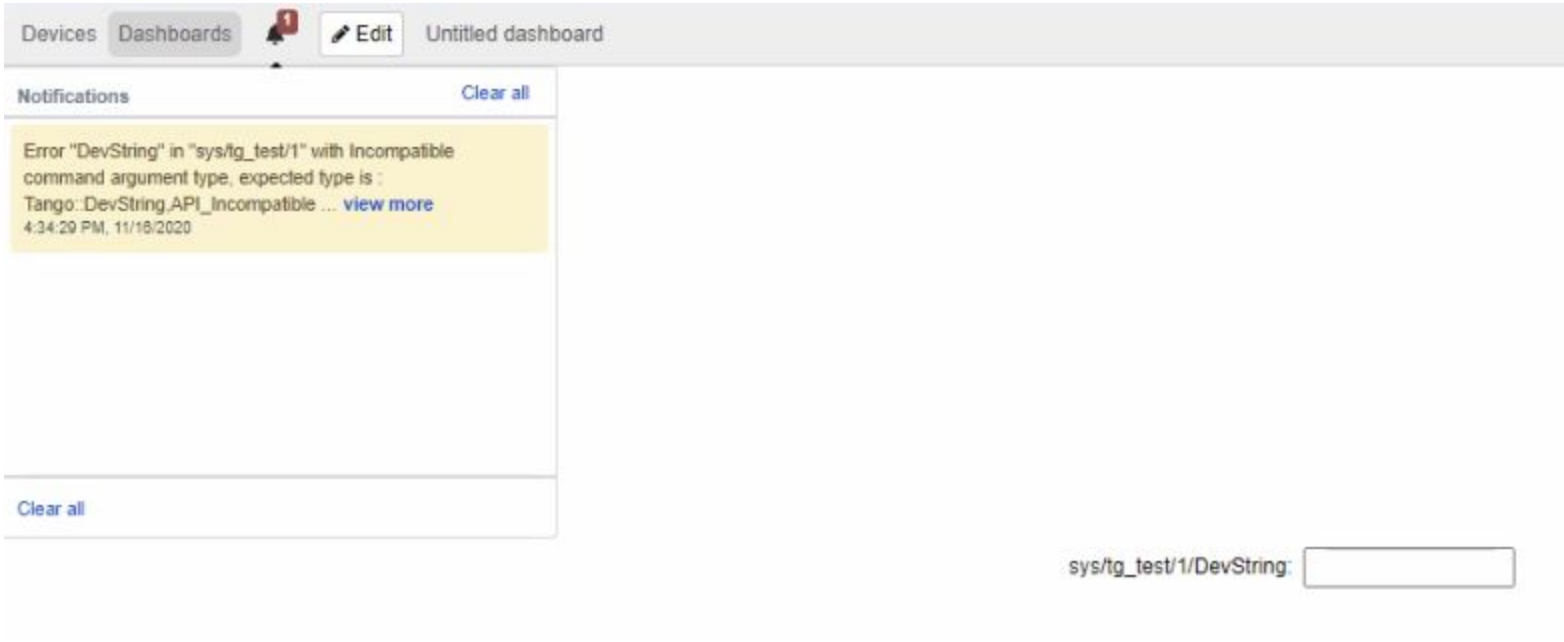


Import/export of dashboards

- ability to export a dashboard
  - as a versioned JSON file in the local file system
- ability to import a saved dashboard
  - and validate/migrate the JSON file

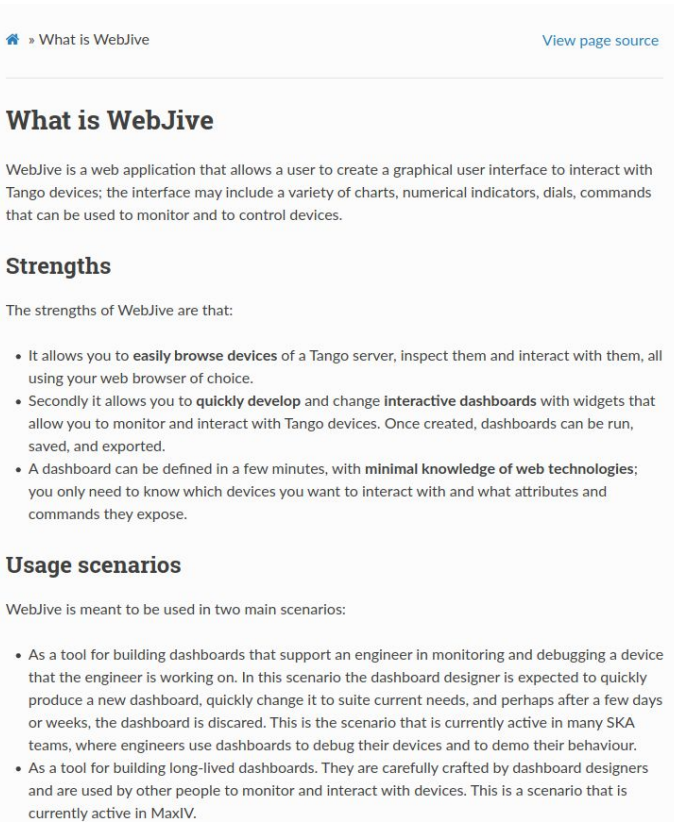
- to share it with others
- to cope with instability of the server on which WebJive is running
- to load it on another instance of WebJive

Notification handling

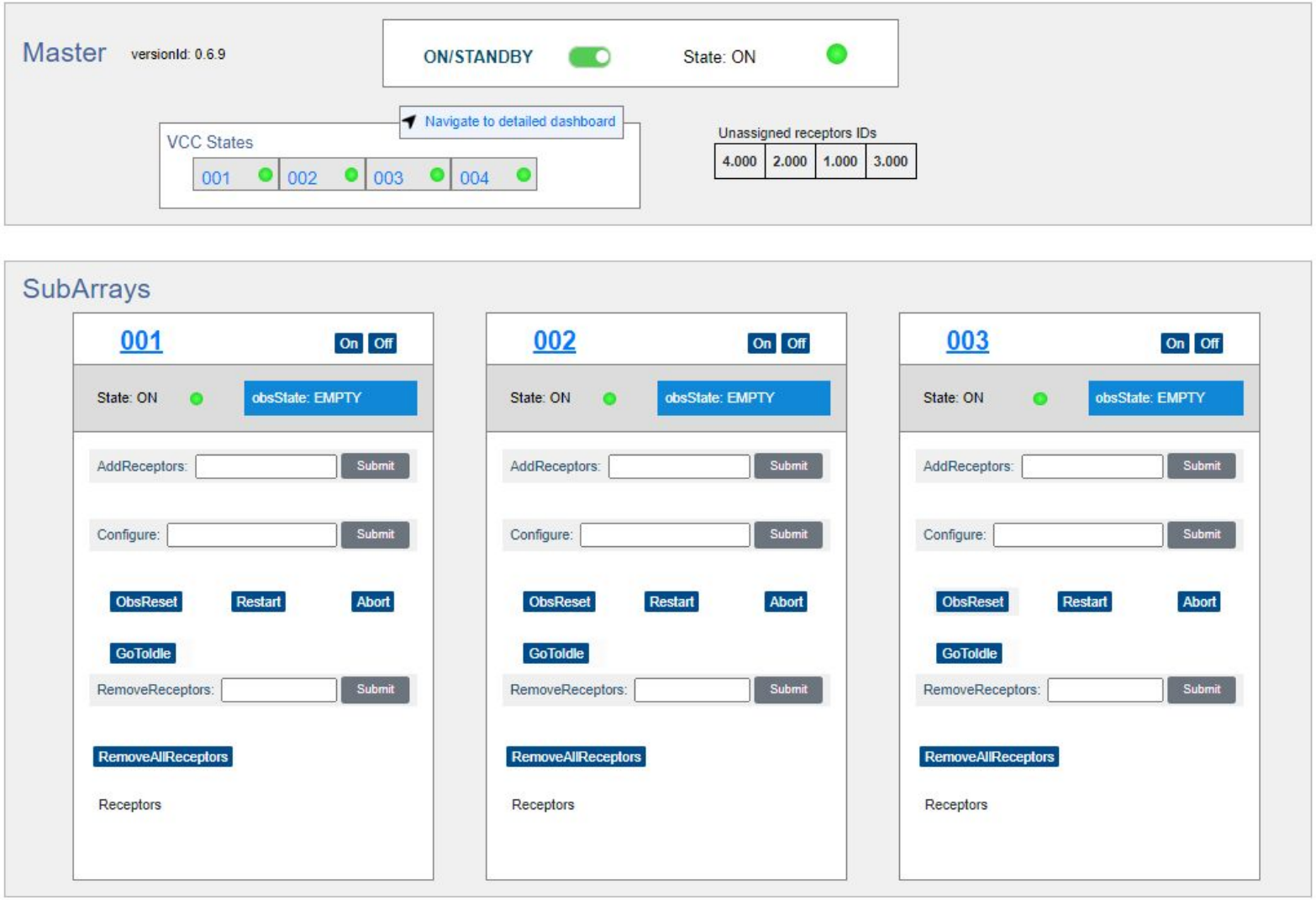


Other improvements

- better handling of layers
  - drag & drop, last widget on top
- added customization parameters for several widgets
- greatly improved test code coverage
- improved CICD pipelines
- fixed usability defects
- improved user documentation



Recent dashboards



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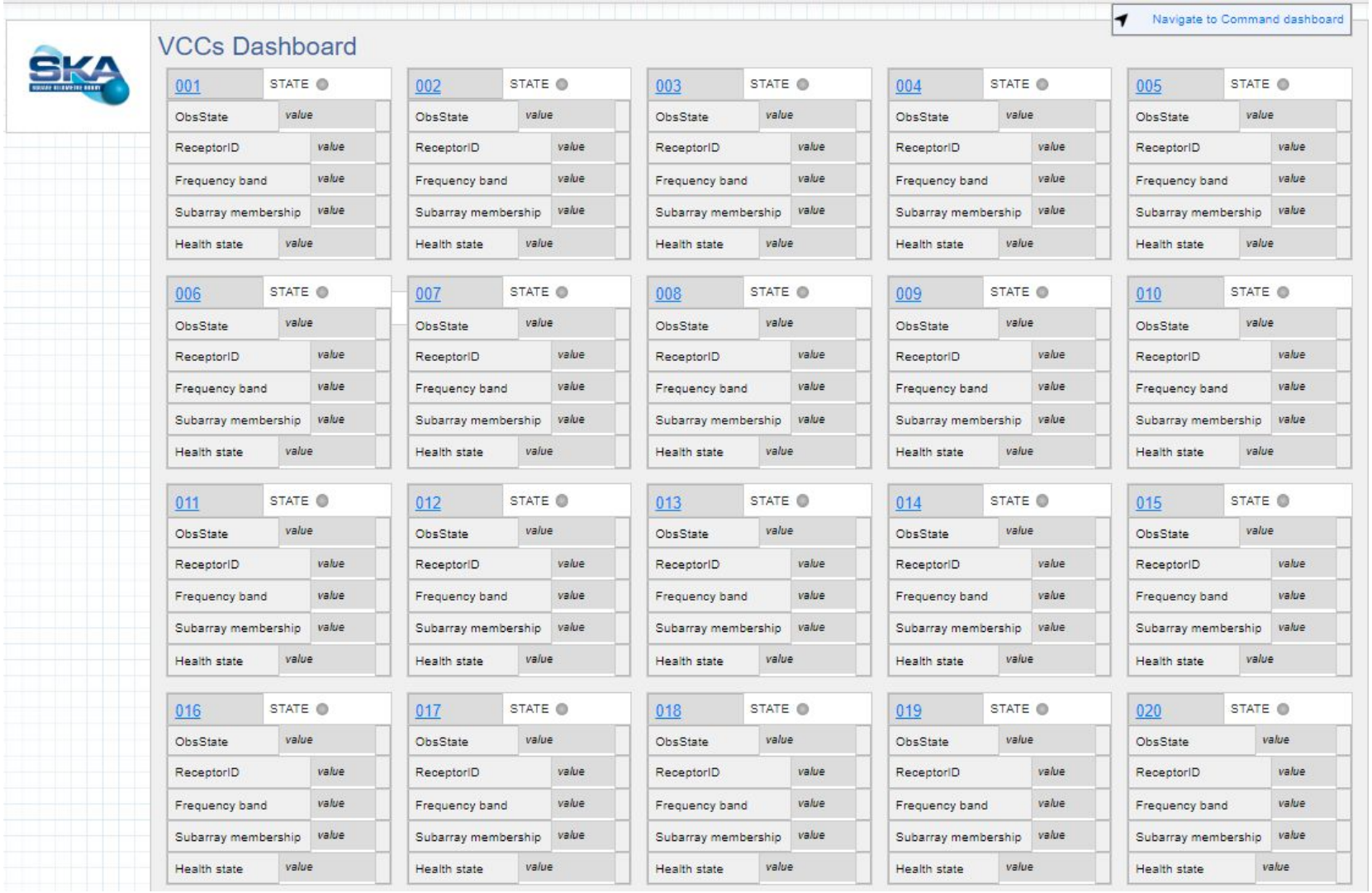
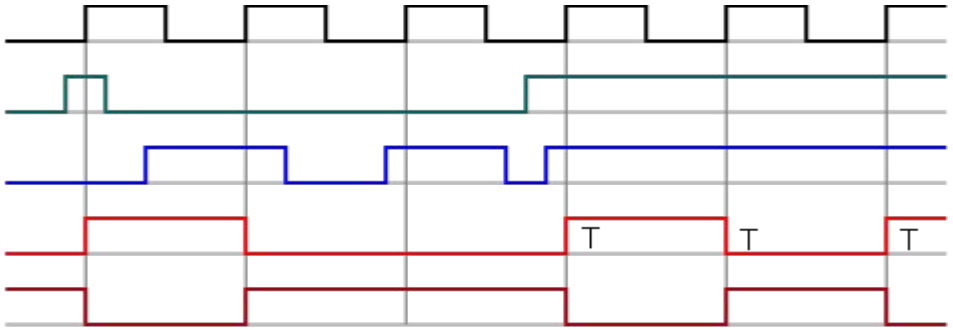


WebJive: roadmaps

Short term roadmap: < March 2021

- improved conditional formatting:
  - css style selected on the basis of predicates on attributes
- timing diagrams
- more consistency between “Devices” and “Dashboards”
- dropdown menu to select argument for a command



- further improvements in documentation
- better testing

Short term process improvements

- better nurturing of the Tango Community
  - improved feedback loop
  - more structured responses
  - more info/transparency
- more “Lean UX” practices
- focus on technical and UX debts

Longer term roadmap

< end of 2021

- grouping of widgets/UI containers
- parametric dashboards
- toggeable features
- configurable digital assets
- reliable and high quality tool
- improved usability of dashboard editor

SKA aims at a **mature product** that can be mandated to all teams involved in the “Construction” phase

Who we are

Teams

Two teams:

- at MaxIV, the creators of WebJive
- at SKA, co-developers
  - initially the “BUTTONS” team
  - later the “CREAM” team

SKA teams are

- adopting an agile approach, within SAFe
- work on 2 week sprints/6 sprint PIs cadence
- with a clear Definition of Done
- with a clear testing policy and strategy

Community support

We are setting up this process:

- external **merge requests**:
  - we will respond ASAP (quickly for widgets, more slowly for bigger changes)
- **bug reports**:
  - we will soon publish the medium (likely to be gitlab)
  - we do a weekly triage meeting
- **help requests**:
  - we do a weekly triage and do our best to cover everything
- **new features**:
  - we will regularly update our roadmap
  - we will analyse and respond on a weekly basis

We have a request for you

"WebJive" evokes the wrong meaning

- the current product is more than just the "web version of Jive"

What name would you suggest?

shorturl.at/gT467

Questions?

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