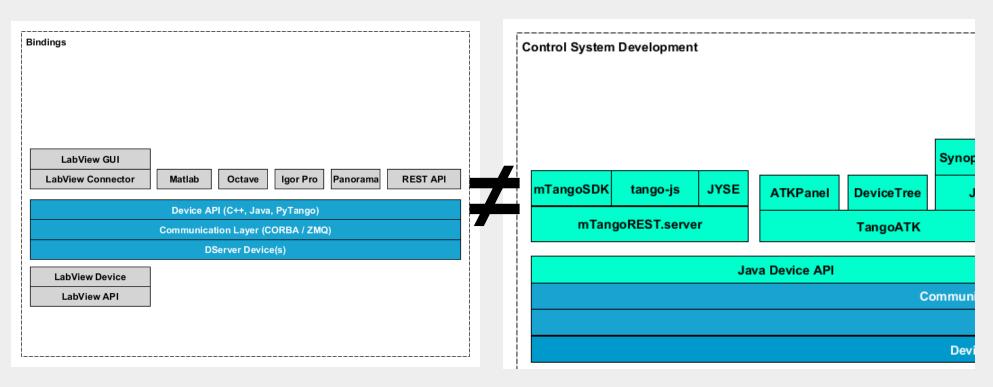
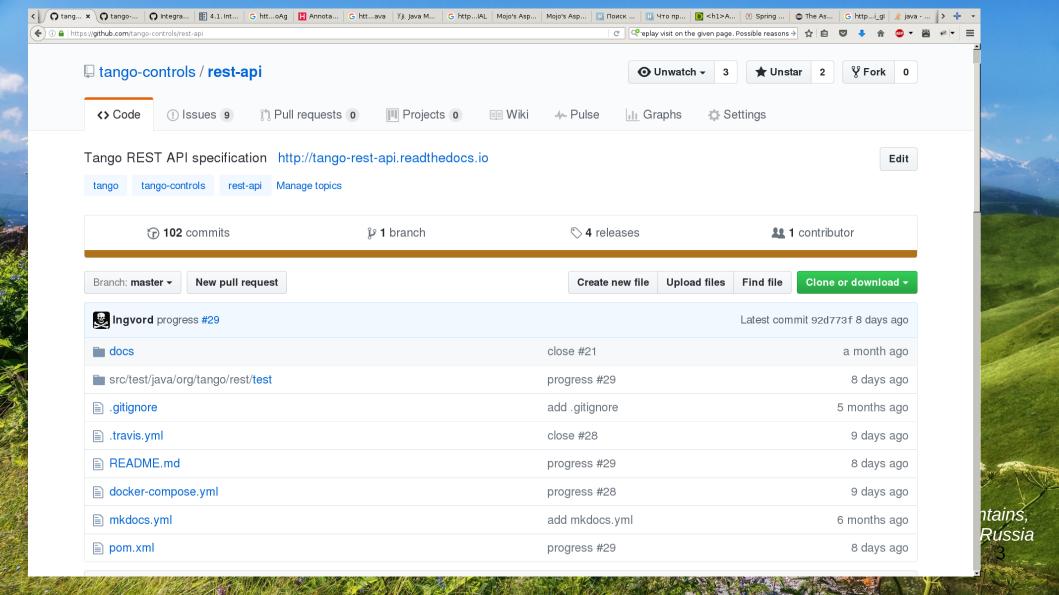
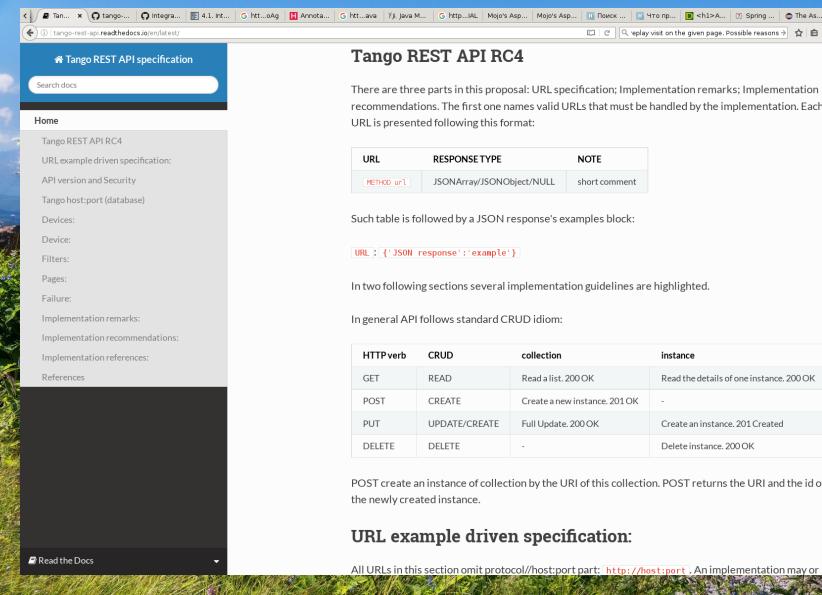


Tango REST API EcoSystem







Tango REST API RC4

There are three parts in this proposal: URL specification; Implementation remarks; Implementation recommendations. The first one names valid URLs that must be handled by the implementation. Each URL is presented following this format:

URL	RESPONSE TYPE	NOTE
METHOD url	JSONArray/JSONObject/NULL	short comment

Such table is followed by a JSON response's examples block:

URL : {'JSON response':'example'}

In two following sections several implementation guidelines are highlighted.

In general API follows standard CRUD idiom:

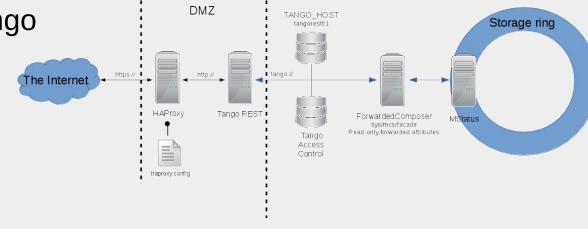
HTTP verb	CRUD	collection	instance
GET	READ	Read a list. 200 OK	Read the details of one instance. 200 OK
POST	CREATE	Create a new instance. 201 OK	-
PUT	UPDATE/CREATE	Full Update. 200 OK	Create an instance. 201 Created
DELETE	DELETE	-	Delete instance. 200 OK

POST create an instance of collection by the URI of this collection. POST returns the URI and the id of the newly created instance.

URL example driven specification:

Tango REST API status report

- Migration to GitHub
- Read the Docs
- Updates (RC4)
- Added to the official Tango documentation
- ESRF deployment
- DESY deployment
- JINR deployment



Roadmap (main points)

- RC5
 - TANGO_HOST port as a matrix parameter:

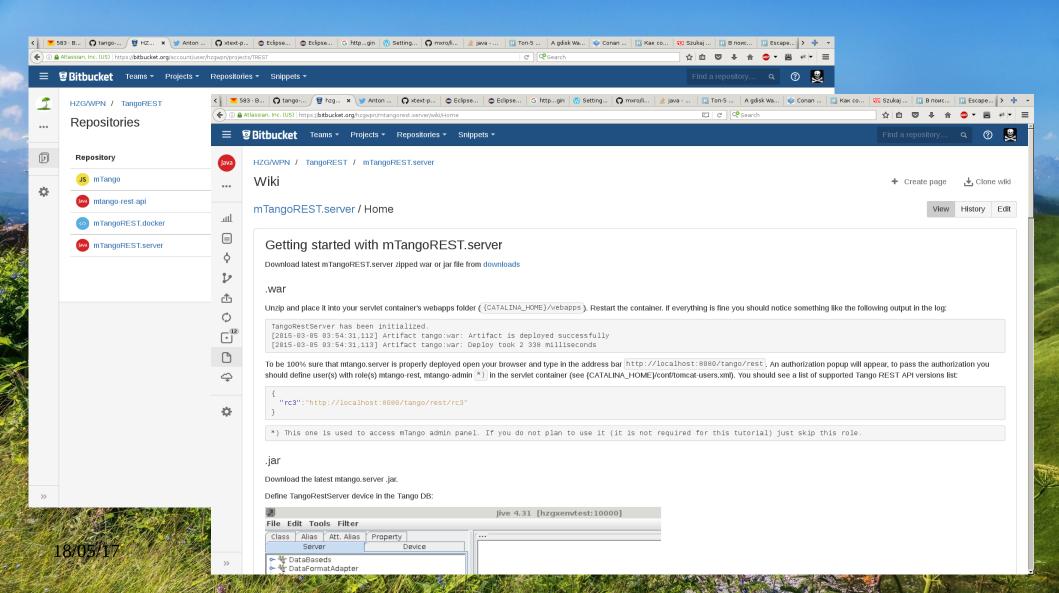
```
tango/rest/rc4/hosts/orion/10000/... VS tango/rest/rc5/hosts/orion/... OR tango/rest/rc5/hosts/orion;port=10005/...
```

Content-type VS URL addressing:

```
.../attributes/ushort_image/value/image VS .../value Content-type: image/jpeg .../attributes/ushort_image/value/plain VS .../value Content-type: text/plain
```

- RC6
 - HTTP/2push events!!!

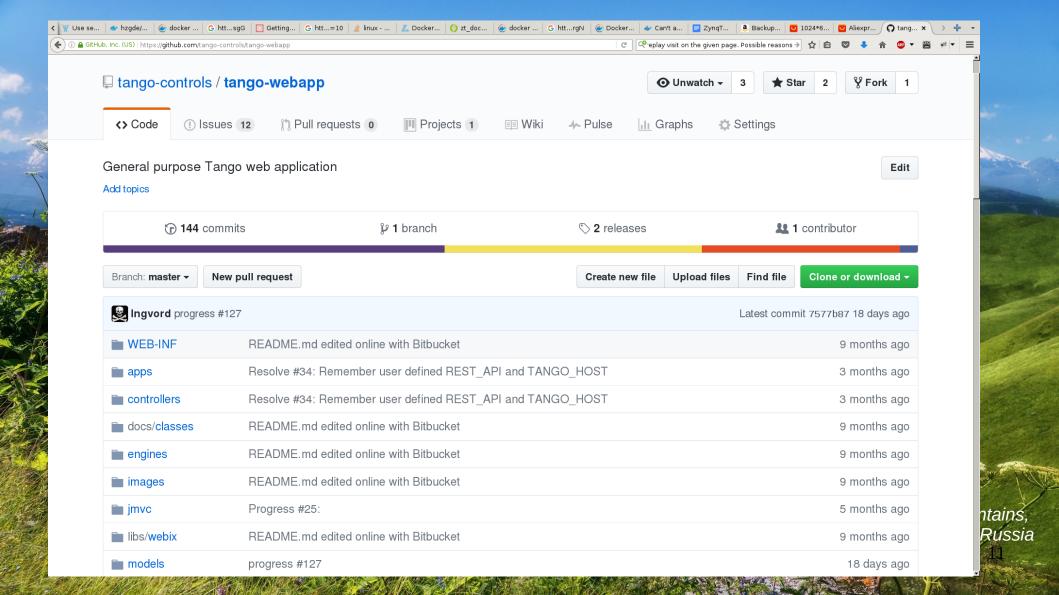




mtangorest.server

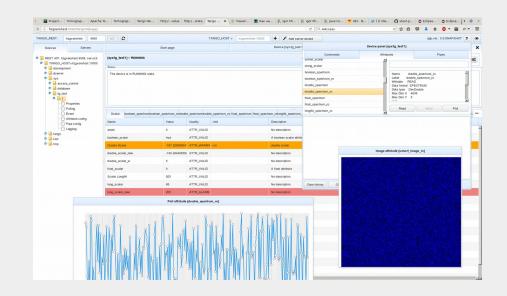
- Latest release rc4-1.4
- RC4
 - Image (2D array) data types
 - Event mechanism tweaks
- Refactoring (JAX-RS)
- Consistent http response codes (305, 500, 503)
- Docker container
- Bug fixes
 - No filter configured with id 'json-response-fields-filter'
 - Events wrong response





TangoWebapp status report

- Moved to GitHub
- Updates
 - Multiple TANGO_HOSTs
 - Use cookie to rememberTANGO_HOSTs
 - Migration to RC4
- Amazon Cloud deployment
- Deployed at DESY (P03nano)





Related projects

- JYSE studio (the next talk)
 - In-browser dashboard builder
- tangojs
 - A bunch of JS components for data visualization
 - MAX IV prepared a demo project: https://github.com/Unknown22/TangoJSDemo
- mTangoUI
 - Component based framework for building web/mobile applications

