

# DevOps and QA/Test Working Group Meeting

Thursday, February 07, 2019

## Attendees:

James Gregg (Intel), Jeremy Phelps, Jacob Blain Christen (Intel), Andy Foster, Trevor Conn, Ernesto Ojeda (Intel), Walt Morton (Intel), Emad Attia (Intel), Lisa Ranjbar (Intel), Srinu Addepalli (Intel), Michael Hall, Lenny Goodell (Intel), Ramya Ranganathan (Intel), Brandon Forster

## Agenda

Time	Item	Who
	<b>DevOps WG</b>	
10 min	Go-Modules Discussion (Continued)	Trevor Conn
10 min	Work Review	James Gregg
	<b>QA / Testing WG</b>	
15 min	K8S based Cloud region support	Srinu Addepalli / (Intel ONAP)
10 min	SonarQube Discussion / Demo	Lisa Ranjbar (Intel)
5 min	Proposal to schedule dedicated QA/Test meeting(s)	Andy Foster
	Opens / Help Needed	All

## I. Go-Modules Continued Discussion

**Decision Changed after Core WG meeting discussed GitHub submodules.**

**Update** (Trevor Conn)

**Plan is to not use submodules but each module will be managed within its own separate GitHub repository.**

We want to follow this pattern:

`github.com/<organization>/go-mod-<capability>`

So the initial repos we'd want to create are as follows:

`github.com/edgexfoundry/go-mod-registry`

github.com/edgexfoundry/go-mod-messaging  
github.com/edgexfoundry/go-mod-core-contracts

Modules need to be built and unit tested. Need to use github tags.  
Question on BKM on best way to tag the modules.

All of the go module repo builds would be considered new scope and would need jobs created.  
Concern raised by Jacob that the go tooling isn't available for automating the tagging.

New jobs will run a build and run unit tests but no image will be created as an artifact.

Goal: Device services need to be converted to modules without glide by Edinburgh release (April 2019).

Jeremy suggests that we "Might need to modify `make prepare` operations."

May need a working session to discuss the topic further.  
After the meeting Jacob mentioned that use of an "orphan branch" might be another option for the tagging.

#### **Decision :**

As initial scope for work to pull in on this topic - focus on **device-mqtt-go** as the first service to convert with the go modules.

## **II. DevOps Work New / Old Review**

- **Device-sdk-go (Owner: Ernesto)** – Merged last week - **DONE**
- **Device-grove-c (Owner: Lisa)** – Merged – Issue with underlying java dependencies in docker template – **WIP**  
Suggestion to remove java dependencies from Docker template.  
Jeremy can help to show Lisa where the triggers are found.
- **Device-sdk-c (Owner: James)** – Merged last week - **DONE**  
Issue with Checks that was corrected by Eric Ball. At this point, the merge job is not working.  
Same issue as device-grove-c with java dependencies.  
Note: the device-sdk-c may require some additional work from developers to refactor the way the Docker build. Suggestion is to use a multi-stage build.
- **Archive legacy Java repos** – **DONE**
- **Configuration of the Allure Plugin on all Jenkins environments** – **DONE**
- **Initial Test of Allure plugin on Sandbox** - **DONE**
- **Remove all legacy Java Jenkins Jobs** – **WIP**
- **New Repo Request for go-mods** – **DONE**
- **Add Allure publisher to Integration Boiler Plate JJB Template** – **Not Started**
- **Setup Integration Blackbox testing in Sandbox to prepare for new Security Services** – **Not Started**

### III. **K8s Cloud Region Support**

New Topic (Srini Addepalli / Intel ONAP)

Request to create tests to support the K8s Cloud Region Support ONAP use case

Ask for help but no resources to help contribute to the EdgeX Foundry Open Source project seeking help and would like a minimum number of tests to confirm that the services are deployed to the endpoint appliance successfully and that everything is up and running.

Ramya has noted that the IOTG validation team is looking at performing IOT testing and has experience with validation of container based microservices. Invitation to connect offline. Existing documentation and developer guides should be considered in getting started.

Per Andy, suggestion to consider existing blackbox testing as it stands today but would require additional development for use case specific testing. Timelines for the request are immediate future (April) and conflict with planned roadmap for Edinburgh release.

This is an Intel specific use case and not in scope for Edinburgh release. The request comes with no resources to help contribute to the open source project.

### IV. **SonarQube Discussion**

Code Coverage / Code Quality tooling. See presentation.

Next steps: Comparison between Codecov.io / SonarQube with Cost Analysis of the tools.

### V. **Proposal for Separation of Meeting**

Andy proposed for separation of DevOps / Test-QA meeting with intention to keep agenda topics related to actual testing and validation in the new meeting. There will still be some overlap for the enabling work that DevOps will help with but with additional community interest in helping with end to end test / validation, separate meetings seems appropriate.

Look for Doodle for consideration of meeting logistics.

### VI. **Opens**

No additional Opens

### Future Agenda Items

WW07	LTS Discussion (Continued) (Jim White)