

EdgeX Application Working Group 8/6/2019

Topics for today:

- Update from Cloud Export Meeting this morning
 - Mike to share module for extending App Functions SDK
 - Alex will start working on AWS Export
 - Cloud will port existing implementation so that it can extend the app functions SDK
 - Brad will share feature enhancements in the Application Working group meeting
 - CloudEvent should be added as an export formatter
 - Put it in holding along with the other cloud/north bound exports
 - Defer decisions to move to main edgexrepo until popular
- Feature Requests from Commerce Working Group
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- App Service Configurable - Ready for TSC Approval?
 - Yes, go for TSC Approval Wed Aug 7th
 - Export to rules engine
 - BlackBox testing
 - Ci/CD pipeline needs to be in place
- Ready to close <https://github.com/edgexfoundry/app-functions-sdk-go/issues/110?>
 - Vault integration is captures as separate issue
 - Still waiting for module to leverage vault
- MarkAsPushed - break it out from HTTP and MQTT
 - Currently baked in,
 - Will move this into its own transform to be called manually
 - **TOPIC FOR FUTURE:** What is the thing that determines that the item is removed from the gateway. How and when?
 - Maybe its just a delete? Avoid mutability
- BlackBox Testing
 - ZMQ through HTTP Export out of scope

Topics from last time:

Black Box Tests - Walkthrough for App Service Configurable

HTTPS Export -- We are at parity now(Good for Fuji) - Stretch goal to extend scope to the following:

- mTLS?
- OAuth?
- Token Based Auth for header?

Azure Export

How many services do we want to provide an example for?

- Support existing Azure IoT Hub (via MQTT)
- Create issues for other Azure services that could be helpful with "help-wanted" tag
 - Blob Storage

Refactoring of Functions

Port Allocation:

- Default is 48095 today
- Option to support ephemeral ports (OS Picks).

Any Bugs needing to be discussed?

<https://github.com/edgexfoundry/go-mod-messaging/issues/31>

Any Other Updates?

Still in Beta today - Will match major release of EdgeX once released.

From Last Time:

Export Distro ([Issue #512](#)) / go-mod-messaging ([Issue #28](#))

- Only able to recreate with core-data running in docker
- Found new issue where core-data stopped publishing events
 - No errors or crash.
 - Stopping DS(s) and restarting mongo resolved until both DSs running.
 - Dropping Events & Readings collections from Mongo resolves issue
- Lenny will merge fix and update edgex-go and retest
- Lenny will create issue for new issue where Core Data stopped publishing.
 - Lenny will take his test case to the QA/Test WG.

App-service-configurable Docker

- Profile specified from compose file 'cmd:' or docker run.

- Default run without profile will cause error.
- Will start with the following profiles:
 - rules-engine
 - mqtt-export
 - http-export
 - docker
 - Default sample (filter & xml transform)
- Current filter function need to pass-thru if filter values empty, currently none passed thru.
 - This allows more flexibility with configurable pipeline

Blackbox Testing

- First pass on existing REST API using current tooling and scripts to set config
 - Will also use REST Trigger to drive testing function pipeline
 - Post event
 - Pipeline runs
 - Result send back as HTTP response
- More Robust test once we have Robot (dependent on QA/Test WG)
 - Above race condition and previous expose that we don't have sufficient full scale integration and stress testing.
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Any Bugs needing to be discussed?

Any Other Updates?

- Rules engine update
 - Jim working on it to handle MessageEnvelope
 - Looking for recommendation for CBOR package for Java
- Environment variable override has been merged.