

System Management WG Meeting: 8/28/18

Attendees: Attendees that may have joined after the start of the meeting may not have been captured and listed.

Discussion and action items as a result of meeting in **RED**

Old Business

- Updates on implementation of SMA and micro service management API (MSM API) from Akram
 - PR submitted and first system management bits now on the master branch of edgex-go
- Edinburgh Release
 - Add metrics (not all of these would be in Edinburgh – TBD)
 - #Objects detected, inferences per second, time per inference (@ analytics level/AI)
 - Some metrics would be service specific (like above) some would be generic (ex: memory, CPU)
 - Need, potentially, to think about resolution of metric data (but don't want to impact service performance itself)
 - Data flow metrics: events per second, readings per second ideas
 - SMA Translation layer (to talk LWM2M, OMADM, etc.)
 - How to push data/metrics to other systems (REST v message)
 - How to allow for pull of data/metrics
- Fuji Release
 - Setting config (what is read only vs. writable property)
 - Callback (alerts on changes config/metrics)
 - Add actuation based on metric change (control plane level rules engine/analytics)
 - Ex: Stop or restart a service if we see CPU rise to a certain level
 - Anomaly detection at system level
 - Storing metrics collected locally?
 - How to push data/metrics to other systems (REST v message)
 - How to allow for pull of data/metrics
 - Concern with too many database; or should it be a shared database in EdgeX
 - Could be supported of in-memory database vs disk? Allow down stream to store to disk as needed. (Use Redis for this for example).
 - Get metrics into time series database (like InfluxDB)
- Wish list beyond two releases
 - Software update of micro services
 - Vs hardware/BIOS/etc.
 - How to do with various containers (Docker, Snap, Kubernetes, etc.)
 - Talk about broader “standard” for system management & system management APIs
 - Prescriptive guidance
 - Using EdgeX sys management as example implementation of
 - Test bed potential with consortia/standard groups

New Business

- Pre-cursor to Edinburgh meeting – what is EdgeX management versus broader gateway management (what in Salim's diagram is part of EdgeX)