System Management WG Meeting: 4/2/19

Attendees: Iain, Tom (IoTech) Jim, Trevor Akram (Dell), Drasko (Mainflux), Rodney (Beechwoods), Vlado (TU Berlin), Ian (Canonical) . 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

- DS C SDK and system management (Akram & Iain)
    - Issues for implementation
    - Differences in implementation (metrics)
    - Status: provide endpoints for configuration & metrics
        - Metrics present but differences
        - C doesn't have garbage collection so not the same memory usage stats
        - What will be provided: current allocation and heap size
        - CPU usage: total time used by the service and the average usage (basic ratio based on actual time) [Go gives system load]
            - "Alloc" (total heap memory in use)
            - "Heap" (current heap size)
            - "CPU" (CPU time consumed in seconds).
            - CpuBusyAvg
        - Is the CPU time in Go for the whole system or just the service? Ex: if some other program fired up on the box, it would affect the numbers.
        - Akram/Iain – to work out the keys
    - Configuration already in place and aligned.
        - Raw JSON payload that is what the config is provided to the service
- Documentation is to do.
- Any consideration for generic monitoring from the Docker container? – from Vlado
    - Maybe its worth to check into tools like C-advisor, tools that are modular to borrow/include for internal as well.

New Business

- Responsibilities of service discussion
    - Discussion in line with document
    - Akram's sequence diagrams for getting metrics or config if we have agreement on responsibilities (did not get to this)
- Fuji system management scoping (did not get to this)
    - Use of registry or local manifest to drive service interaction (per previous discussion)
    - Use of executor for metrics collection
    - Allow for setting configuration (through registry/config service)
    - 1st translation layer