Phase 1, System Management Delhi Release

Latest Requirements Scoping Document: EdgeX Foundry Micro Service System Management-v5-awe-comments.pdf

Current Design Doc:

System Management Design.odt

System Management Design-v2.odt

System Management Design-v3.odt

System Management Design-v4.odt

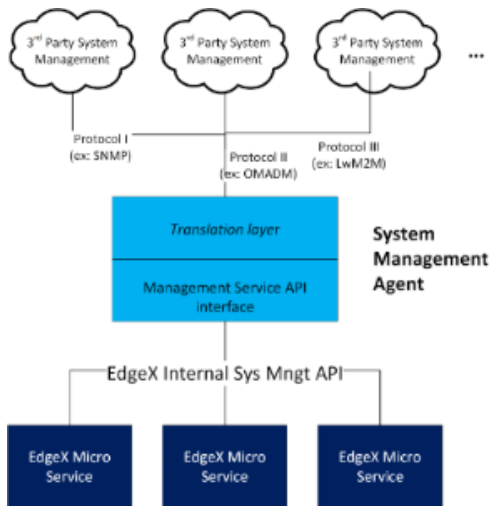System Management Design-v5.odt

System Management Design-v6.odt

System Management Design-v7.odt

System Management Design-v8-Delhi-final.pdf

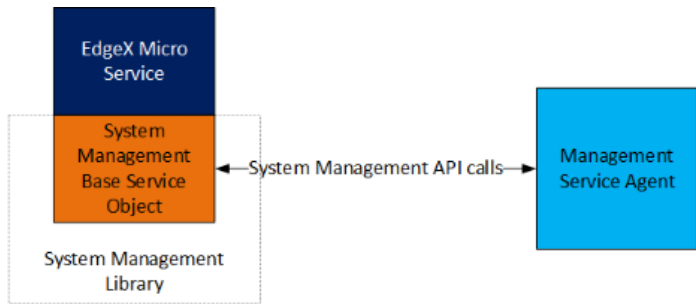## System Management (SM) Agent

Functions and eventual public API Offered by the SM Agent

- Stop all EdgeX microservices
- Start all EdgeX microservices
- Restart all EdgeX microservices
- Stop an EdgeX microservice by name
- Start an EdgeX microservice by name
- Restart an EdgeX microservice by name
- ~~Ping an EdgeX microservice (check that the service is still up)~~
- Get the configuration settings (aka properties) for an EdgeX microservice by name
- Get the configuration setting (aka property) for an EdgeX microservice (by name) by configuration setting name (aka key)
- ~~Set the configuration setting (aka property) for a writable (versus read only) property for an EdgeX microservice (by name). Example: the port of a service is read only where as the log level maybe updated (writable).~~
  - Removed from scope due to shortened release time line and complexities of persisting info in Consul or file system.
- ~~Get the current Admin status (locked or unlocked) of an EdgeX microservice *(only valid for Device Services?)*~~
  - Removed from scope due to shortened release time
- ~~Register a client for change to a configuration setting to a named EdgeX microservice~~
- ~~Register a client for change of the operating state between enabled and disabled states to a named EdgeX microservice~~
- ~~Register a client for change of the admin state between locked and unlocked state to a named EdgeX microservice~~
  - Removed from scope due to shortened release time
- ~~Register a client for (significant) change in memory usage to a named EdgeX microservice~~
- ~~Deregister a client from any existing registration~~

Stretch goal: to facilitate native system processes call of above (like systemd) per Delhi Release#SystemManagementTasksandNotes

Microservice level support for SM

SM per microservice API

- Stop this microservice
- ~~Get the current Admin status (locked or unlocked)~~ ***(not sure if this should only be valid for Device Services)***
- Get the configuration settings (aka properties) for this microservice
- ~~Get the configuration setting (aka property) for this microservice by configuration setting name (aka key)~~
- ~~Set the configuration setting (aka property) for a writable (versus read only) property for this microservice.~~
  - Removed from scope due to shortened release time
- Get the memory usage for this microservice

Microservice SM Callbacks

(each microservice will send out a notification on these events)

- ~~Notify registered clients on change to a configuration setting~~
- ~~Notify registered clients on change of the operating state between enabled and disabled states. *(not sure if this should only be valid for Device Services)*~~
- ~~Notify registered clients on change of the admin state between locked and unlocked states. *(not sure if this should only be valid for Device Services)*~~
  - Removed from scope due to shortened release time
- ~~Notify registered clients on (significant) change of the memory usage~~