Data Persistence Project Group (Inaugural) Meeting – 9/4/18

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

- Requirements finalized / ratified (see previous meeting notes for details)
- Database comparison matrix available for future reference
    - https://wiki.edgexfoundry.org/download/attachments/18907176/DatabaseComparisonMatrix.xlsx?version=1&modificationDate=1534994948000&api=v2
- Database performance evaluation testing plan available for future reference
    - https://wiki.edgexfoundry.org/download/attachments/18907176/EdgeX%20Data%20Persistence%20Performance%20Testing.pdf?version=1&modificationDate=1535128848000&api=v2
- Current plan
    - For the Edinburgh release
        - The core dev team works to implement a layer/abstraction system for databases. Allowing any database to be used under the covers more easily.
            - Desire to have a preview sooner than Edinburgh release
            - In order to have abstraction, we need to get rid of BSON references (or any reference to DB specific identifier, qualifier, etc.)
        - There will be 2 persistence options for the EdgeX reference implementation: a MongoDB and a Redis set of core services (Core Data and Metadata).
        - There will be a document on how to replace the database for others.
        - There will be a certification process for core services – insuring any new core service adheres to the API sets and work appropriately in an EdgeX environment
        - There will be a marketplace for core service replacements
        - The test team works to create a performance test harness for core services that provide statistics on memory usage, CPU usage, speed of queries, writes, etc.
    - For the Fuji release
        - The community decides of which of the reference implementations we want to keep long term (may be one or both or even take one out of the marketplace if it is shows itself to be better)

New Business

- Motion to adjourn this project group until database abstraction, Redis implementation, and performance platform created