Architect’s Meeting

July 27, 2022
Today’s Agenda

• ADR and UCR Updates
• EdgeX Minnesota (3.0?) Planning
  • Deprecated Items - Summary
  • Breaking Change Items - Summary
  • Backward Compatibility Items - TODO
## ADR & UCR PROCESS review (as of 9/26/22)

<table>
<thead>
<tr>
<th>ADR name and PR number</th>
<th>Status</th>
<th>owner</th>
<th>Work Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extending Device Data (UCR) - split from parent/child UCR</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/845">https://github.com/edgexfoundry/edgex-docs/pull/845</a> under review - approvals so can be put to TSC vote</td>
<td>Tom-Eaton</td>
<td>AS/core</td>
</tr>
<tr>
<td>Parent/Child device relationship &amp; Application Services Extending Device Data (UCR)</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/800">https://github.com/edgexfoundry/edgex-docs/pull/800</a> up for TSC vote (5 votes in favor so far) 6 votes received, UCR merged</td>
<td>Tom-Eaton</td>
<td>DS</td>
</tr>
<tr>
<td>Provision Watch more Device Properties (UCR)</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/806">https://github.com/edgexfoundry/edgex-docs/pull/806</a> up for TSC vote (3 votes in favor so far) 6 votes received, UCR to be merged</td>
<td>Tom-Eaton</td>
<td>DS</td>
</tr>
<tr>
<td>Hybrid App-Device Services (UCR)</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/809">https://github.com/edgexfoundry/edgex-docs/pull/809</a> under re-review</td>
<td>Tom-Eaton</td>
<td>DS</td>
</tr>
<tr>
<td>Record and Replay (ADR)</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/863">https://github.com/edgexfoundry/edgex-docs/pull/863</a> under review</td>
<td>Lenny</td>
<td>App Service</td>
</tr>
<tr>
<td>core data cache</td>
<td><a href="https://github.com/edgexfoundry/edgex-docs/pull/723">https://github.com/edgexfoundry/edgex-docs/pull/723</a> Jim to add UCR for this</td>
<td>Jim White</td>
<td>Core</td>
</tr>
<tr>
<td>global configuration</td>
<td>EdgeX 3.0 item (not in scope now)</td>
<td>Lenny</td>
<td>Core</td>
</tr>
<tr>
<td>URI reference (profiles, config, etc.)</td>
<td>EdgeX 3.0 item (not in scope now; may be sub part of global config)</td>
<td>Lenny</td>
<td>Core</td>
</tr>
</tbody>
</table>
EdgeX 3.0 Planning

Deprecated items list

- References to ZeroMQ (allowing for the refator of go-mod messaging - see next slide)
- Remove SMA and executor
- Username/password for SMTP
- App Services old AES encryption
- Legacy Snap options
- Old tagging in edgex-UI
- LastConnected and lastReported in Device Services
- Kong Oauth2 plugin (keeping JWT)
- Deprecated aspects of App Functions SDK:
  - MessageProcessor interface
  - SetFunctionsPipeline and LoadConfigurablePipeline
  - NewTags factory method in app functions

Note: these will actually be removed in 3.0
EdgeX 3.0 Planning

Focused on non-backward compatible changes:

**New Features**

Yes:

- Global configuration

Needs more discussion:

- Internationalization of metadata
- Time Series DB in place of Redis

No

- Internationalization of metadata
- Time Series DB in place of Redis

**Technical Debt**

Yes:

- refactor go-mod messaging to support single host messaging (relating to removal of ZeroMQ)
- Move protocol properties to JSON typing

Needs more discussion:

- Lowering JSON overhead (gzip an option)

No

- Move command service and API into core metadata
- Move some config options to static vars in code
- Force units on a device resource to be mandatory

Still to process: backward compatible changes… see https://docs.google.com/document/d/1-77RGBo76K3OBxmaJK96KfWsM2c3MNU2dyI7tCJQkKU/edit
Thank You