

Performance Test Cases

Services

- Core MetaData
- Core Data
- Core Command

Monitoring Metrics

- Request/Response Time
- CPU (average, peak, latest)
- Memory (average, peak, latest)
- Service start-up time

Core Metadata

- Upload 5 device profiles which file size are around 500k concurrently
 - Once / per 5 secs continuously around 1 hour
- Create 50 addressables concurrently
 - Once / per 5 secs continuously around 1 hour
- Create 50 devices concurrently with same device profile
 - Once / per 5 secs continuously around 1 hour
- Create 50 devices concurrently with different 5 device profiles
 - Once / per 5 secs continuously around 1 hour
- Create device profile continuously 24 hours, 1 request/per 1 min

Core Data

- Send event / reading continuously for 24 hours from 50 devices.
 - Each device contains 2 or above resources.
 - Each resource has different interval time, ex. 0.5/1/30/60 seconds
- Create 50 value descriptors concurrently.
 - Once / per 5 secs continuously around 1 hour
- Delete all events created by the past 24 hours
 - Use delete event by device API

Core Command

- Get all devices command at once (50 devices)
 - Once / per 5 secs continuously around 1 hour
- Get 50 devices command by name/id concurrently
 - Once / per 5 secs continuously around 1 hour
- Update (Put method) 50 devices adminstate command by name/id concurrently
 - Once / per 5 secs continuously around 1 hour
- Update (Put method) 50 devices opstate command by name/id concurrently
 - Once / per 5 secs continuously around 1 hour