ApiGear MQTT

Spec v0.1

MQTT v5

We use MQTT v5

Specification: https://docs.oasis-open.org/mqtt/mqtt/v5.0/mqtt-v5.0.html

Topic Mapping Overview

Operations

{moduleName} / {interfaceName} / **rpc** / {functionName}

Signals

{moduleName} / {interfaceName} / **sig** / {signalName}

Properties

{moduleName} / {interfaceName} / **prop** / {propertyName}

{moduleName} / {interfaceName} / **set** / {propertyName}

Operations 1

Request

Topic: {moduleName} / {interfaceName} / rpc / {functionName}

Content: Data + correlationData(specific function call UUID) + ResponseTopic

Service subscribes, Client(s) publish

Response Topic

Topic: {moduleName} / {interfaceName} / rpc / {functionName} / {UniqueClientID} / result

Content: Data + correlationData(specific function call UUID)

Service publishes, Client(s) subscribe

Operations MQTTv3

Request

Topic: {moduleName} / {interfaceName} / rpc/ v3 / {functionName}

Content: Data{correlationData(specific function call UUID) + ResponseTopic}

Service subscribes, Client(s) publish

Response Topic

Topic: {moduleName} / {interfaceName} / rpc/ v3 / {functionName} / {UniqueClientID} / result

Content: Data{correlationData(specific function call UUID)}

Service publishes, Client(s) subscribe

Operations 2

Internal Requests

-> not defined by API, use underscore before function name

Topic: {moduleName} / {interfaceName} / rpc / _{functionName}

Signals

Request

Topic: {moduleName} / {interfaceName} / sig / {signalName}

Content: Data

Service publishes, Client(s) subscribe

Properties

Get

Topic: {moduleName} / {interfaceName} / prop / {propertyName}

Content: Data

Service publishes, Client(s) subscribe

Retention enabled -> client receives last published data

Set

Topic: {moduleName} / {interfaceName} / set / {propertyName}

Content: Data

Service subscribes, Client(s) publish