

Cumulocity MQTT Cheat Sheet

Topics

PUBLISH s/us

Send built-in message

PUBLISH s/us/5678

Send built-in message to child "5678"

PUBLISH s/ud

Send message using default template (myDevice_10)

PUBLISH s/ud/5678

Same as above, but to child "5678"

PUBLISH s/uc/myCommon_10

Send message using myCommon_10 template

PUBLISH s/uc/myCommon_10/5678

Same as above, but to child "5678"

SUBSCRIBE s/ds

Receive built-in commands

SUBSCRIBE s/dd

Receive commands using default template (myDevice_10)

SUBSCRIBE s/dc/myCommon_10

Receive commands using myCommon_10 template

SUBSCRIBE s/e

Receive error messages

Connection

CONNECT 1234:myDevice_10 acme/device_1234

Connect device with serial "1234" and default template "myDevice_10" to tenant "acme" and user "device_1234".

Topic format

<protocol>/<direction><type>[/<template>][/<child id>]

s = standard

t = transient

u = upstream (from device)

d = downstream (to device)

e = error

s = static (built-in)

c = custom (device-defined)

d = default (defined in connect)

t = template

cr = credentials

Device registration

CONNECT 1234 management/devicebootstrap

SUBSCRIBE s/dcr

PUBLISH s/ucr

PUBLISH s/ucr

...

70,tenant,username,password

Template registration

PUBLISH s/ut/myCommon_10

10,999,POST,MEASUREMENT,,c8y_MyMeasurement,,c8y_MyMeasurement.M.value,NUMBER, ...

10,msgId,api,method,response,type,time,custom1.path,custom1.type,custom1.value

Inventory

100, *createdDeviceName, deviceType*
101, *createdChildId, childName, childType*
105 (Get children, reply: 106, *child1, child2, ...*)
110, *serialNumber, hardwareModel, revision*
111, *IMEI, ICCID, IMSI, MCC, MNC, LAC, cellId*
112, *latitude, longitude, altitude, accuracy*
113, "*configProp 1=val 1\nprop2=val 2\n...*"
114, *supportedOperation 1, operation 2, ...*
115, *currentFirmwareName, version, url*
116, *currentSoftwareName 1, version 1, url 1, name 2, ...*
117, *requiredInterval*

Measurements

200, *fragment, series, value, unit[, time]*
210, *rsi, ber[, time]*
211, *temperature[, time]*
212, *battery[, time]*

Events

400, *eventType, text[, time]*
401, *latitude, longitude, altitude, accuracy[, time]*
402, *latitude, longitude, altitude, accuracy[, time]* (incl. inv. update)

Alarms

301, *criticalAlarmType[, text][, time]*
302, *majorAlarmType[, text][, time]*
303, *minorAlarmType[, text][, time]*
304, *warningAlarmType[, text][, time]*
305, *alarmType, newSeverity*
306, *alarmTypeToBeCleared*

Operations

500 (get pending)
501, *typeToSetToExecuting*
502, *typeToSetToFailed, failureReason*
503, *typeToSetToSuccessful, parameters*
510, *serial* (restart)
511, *serial, commandToExecute*
513, *serial, configurationText*
515, *serial, firmwareToBeInstalled, version, url*
516, *serial, softwareToBeInstalled 1, version 1, url 1, sw 2, ver 2, url 2, ...*
517, *serial, measurementToBeSent*
518, *serial, relayStatusToBeSet* [OPEN/CLOSED]
519, *serial, relay 1 Status, relay 2 Status, ...*
520, *serial* (upload your current configuration)
521, *serial, url* (download configuration)
522, *serial, logFileToBeSend, start, stop, searchText, maxLines*
523, *serial, communicationMode* (SMS/IP)