

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>]

<i><protocol></i>	<i><direction></i>	<i><type></i>
s = standard	u = upstream (from device)	s = static (built-in)
t = transient	d = downstream (to device)	c = custom (device-defined)
	e = error	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,"*configProp1 =val1 \nprop2 =val2 \n...*"
114,*supportedOperation1 ,operation2 ,...*
115,*currentFirmwareName,version,url*
116,*currentSoftwareName1,version1,url1,name2,...*
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,softwareToBeInstalled1,version1,url1,sw2,ver2,url2 , ...*
517,*serial,measurementToBeSent*
518,*serial,relayStatusToBeSet* [OPEN/CLOSED]
519,*serial,relay1Status,relay2Status, ...*
520,*serial* (upload your current configuration)
521,*serial,url* (download configuration)
522,*serial,logFileToBeSend,start,stop,searchText,maxLines*
523,*serial,communicationMode* (SMS/IP)