
VisualStudio2010 Documentation

latest

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EMQ 2.0 (Erlang/Enterprise/Elastic MQTT Broker) Erlang/OTP MQTT

: 2.0 emqttd EMQ

EMQ 2.0 MQTT V3.1/V3.1.1 WebSocketStompCoAPMQTT-SN TCP *EMQ* 2.0 100:

TODO: 2.0-rc.1 .



EMQ 2.0 (C1000K+) MQTT

: MQTT-SNCoAP 2.0-rc.1LWM2MLoRaWan 2.3-beta.1

EMQ 2.0 :

1.1 MQTT

1.1.1

MQTT

MQTT: <http://mqtt.org>

MQTT V3.1.1: <http://docs.oasis-open.org/mqtt/mqtt/v3.1.1/os/mqtt-v3.1.1-os.html>

1.1.2

- 1.
- 2.
3. TCP/IP
4. 12
5. QoS

1.1.3

MQTT

1. M2M
2. AndroidWEB
3. Facebook Messenger
- 4.
- 5.

- 6.
- 7.

1.2 MQTT(Topic)

MQTT(Topic)(Topic)URL:

```
chat/room/1

sensor/10/temperature

sensor+/temperature

$SYS/broker/metrics/packets/received

$SYS/broker/metrics/#
```

(Topic)'/'+', '#':

```
'+' : a/+a/x, a/y

'#' : a/#a/x, a/b/c/d
```

mosquitto:

```
mosquitto_sub -t a/b/+ -q 1

mosquitto_pub -t a/b/c -m hello -q 1
```

:

1.3 MQTT V3.1.1

1.3.1

(Fixed header)
(Variable header)
(Payload)

1.3.2

Bit	7	6	5	4	3	2	1	0
byte1	MQTT Packet type				Flags			
byte2...	Remaining Length							

1.3.3

CONNECT	1	
CONNACK	2	
PUBLISH	3	
PUBACK	4	
PUBREC	5	QoS2
PUBREL	6	QoS2
PUBCOMP	7	QoS2
SUBSCRIBE	8	
SUBACK	9	
UNSUBSCRIBE	10	
UNSUBACK	11	
PINGREQ	12	PING
PINGRESP	13	PING
DISCONNECT	14	

1.3.4 PUBLISH

PUBLISH PUBACKQoS1PUBREC/PUBREL/PUBCOMPQoS2

1.3.5 PINGREQ/PINGRESP

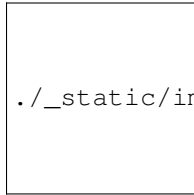
(KeepAlive)PINGREQPINGRESPPINGREQ/PINGRESP2

1.4 MQTTQoS

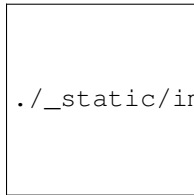
MQTTQoS MQTTQoSQoSQoS

QoS	QoS	QoS
0	0	0
0	1	0
0	2	0
1	0	0
1	1	1
1	2	1
2	0	0
2	1	1
2	2	2

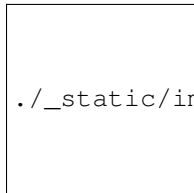
1.4.1 Qos0



1.4.2 Qos1



1.4.3 Qos2



1.5 MQTT(Clean Session)

MQTTCONNECT'Clean Session'

'Clean Session'0

'Clean Session'1

1.6 MQTT

MQTTCONNECTKeepAlive

KeepAlive2PINGREQPINGREQ2PINGRESP

1.5PINGREQTCP

: emqttd2.5

1.7 MQTT(Last Will)

MQTTCONNECT(Will Message)(Topic)(Payload)

MQTT(DISCONNECT)MQTT

1.8 MQTT(Retained Message)

MQTT(PUBLISH)(Retained Message)(Retained Message)

mosquitto'a/b/c':

```
mosquitto_pub -r -q 1 -t a/b/c -m 'hello'
```

MQTT'a/b/c':

```
$ mosquitto_sub -t a/b/c -q 1
hello
```

(Retained Message):

1. :

```
mosquitto_pub -r -q 1 -t a/b/c -m ''
```

2.

1.9 MQTT WebSocket

MQTTTCPWebSocketWebSocketMQTTMQTT

MQTTWebSocketbinaryHeader:

```
Sec-WebSocket-Protocol: mqttv3.1 mqttv3.1.1
```

1.10 MQTT

1.10.1 emqtt

emqtt: <https://github.com/emqtt>

emqtc	Erlang MQTT
CocoaMQTT	SwiftMQTT
QMqtt	QTMqtt

1.10.2 Eclipse Paho

Paho: <http://www.eclipse.org/paho/>

1.10.3 mqtt.org

mqtt.org: <https://github.com/mqtt/mqtt.github.io/wiki/libraries>

1.11 MQTTPCXMPP

MQTTPCXMPP:

1. MQTTPCXMPPXML
2. MQTT(Topic)XMPPJID
3. MQTTJSONXMPPXMLBase64
4. MQTTQoSMPPMQTT

EMQ :

:	http://emqtt.com
:	https://github.com/emqtt
:	emqttd
:	http://weibo.com/emqtt
Twitter:	@emqtt
:	<feng@emqtt.io>