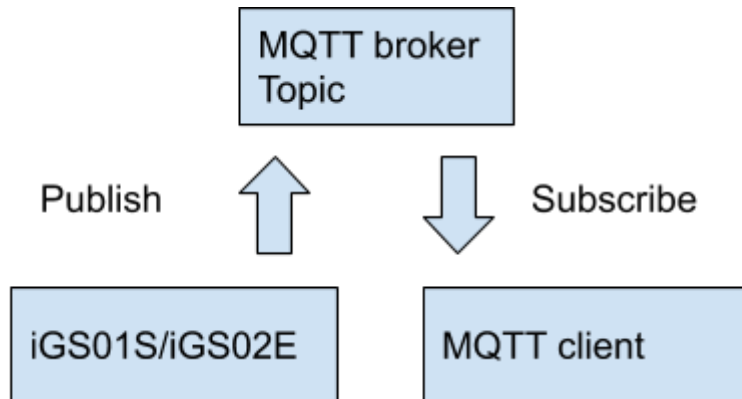


## iGS01S/iGS02E MQTT Tutorial

### Introduction

This application note provides a guide to connect public mqtt broker via mqtt bridge.



\$GPRP,<MAC>,<GW>,<RSSI>,<Payload>

...

### Configuration on iGS01S/iGS02E

In this tutorial we will configure the iGS01S/iGS02E to publish data to a public mqtt broker  
Server: [iot.eclipse.org](http://iot.eclipse.org)  
Port: 1883  
Publish topic: test/data

Below shows the screenshot of IGS02E settings:

1. Set Server Host/IP: [iot.eclipse.org](http://iot.eclipse.org)
2. Set Server Port: 1883
3. Set Publish Topic: test/data
4. Press "Save"
5. Press "Reboot" to apply new settings

After reboot, the device will automatically upload data if the gateway received BLE data.

PS. Make sure there are some beacons around the gateway for test.

The screenshot shows a web browser window with the title "Config Panel" and the URL "192.168.0.101/index.html#/applications". The navigation menu includes "BLE-GW", "Network", "Applications", "Advanced", "System", and "Reboot". The "Applications" section is active, and the "MQTT Client" application is selected. The configuration fields are as follows:

Application	MQTT Client
Host/IP	iot.eclipse.org
Port	1883
Publish Topic	test/data
Content Type	plain-text
Client ID	IGS02E_4A_32
Username	username
Password	password
MQTTS	Disable
Root CA	No Root CA
Use Certificate	Disable
Request Interval (in secs)	0
Drop reports while cache full	<input type="checkbox"/>
Throttle Control (filter out redundant records)	<input type="checkbox"/>

At the bottom, there are "Save" and "Cancel" buttons.

## Verify published data

### Option 1: Use mosquitto\_sub command line tool

Below command subscribe to the specific topic, this should display the published data by iGS01S/iGS02E.

```
$ mosquitto_sub -h iot.eclipse.org -p 1883 -t test/data
```

Mosquitto tool download link: <https://mosquitto.org/download/>

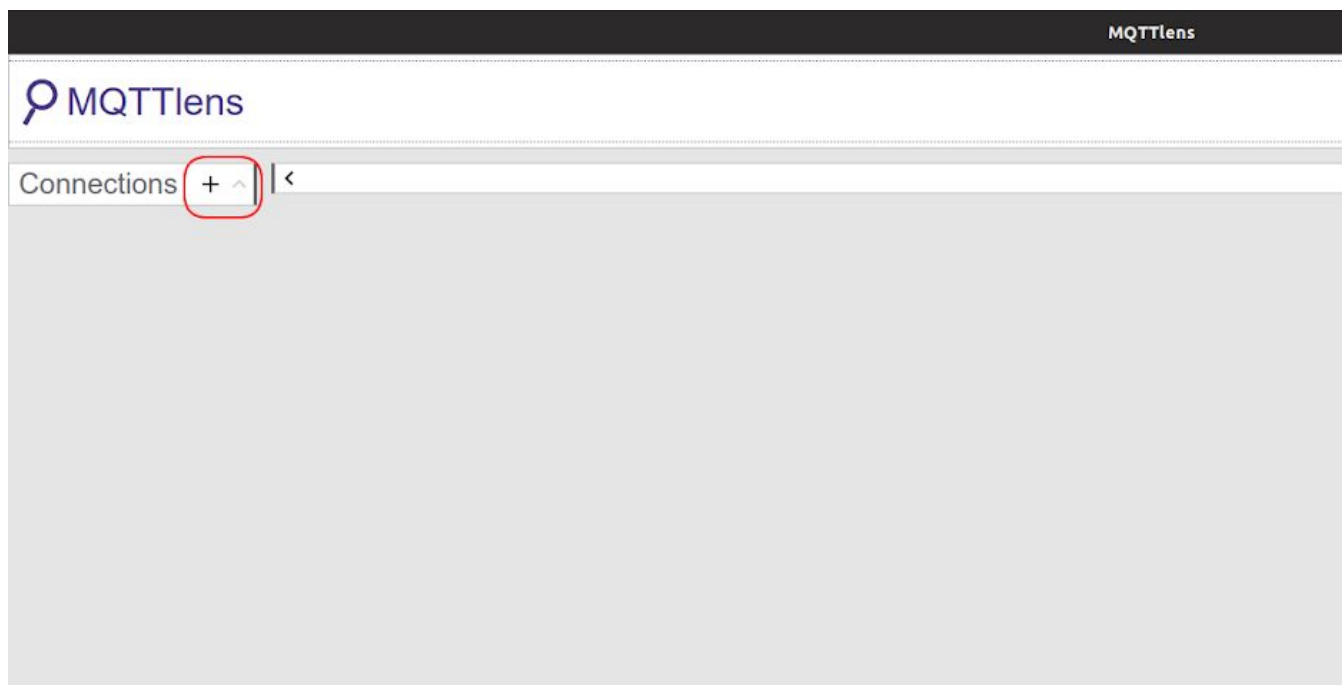
### Option 2: Use MqttLens

MqttLens is a Google Chrome Extension, you can install it by below URL

<https://chrome.google.com/webstore/detail/mqttlens/hemojaaeigabkbccookmlgmdigohbjm>

Below screenshot shows the configurations on MqttLens to check the published data:

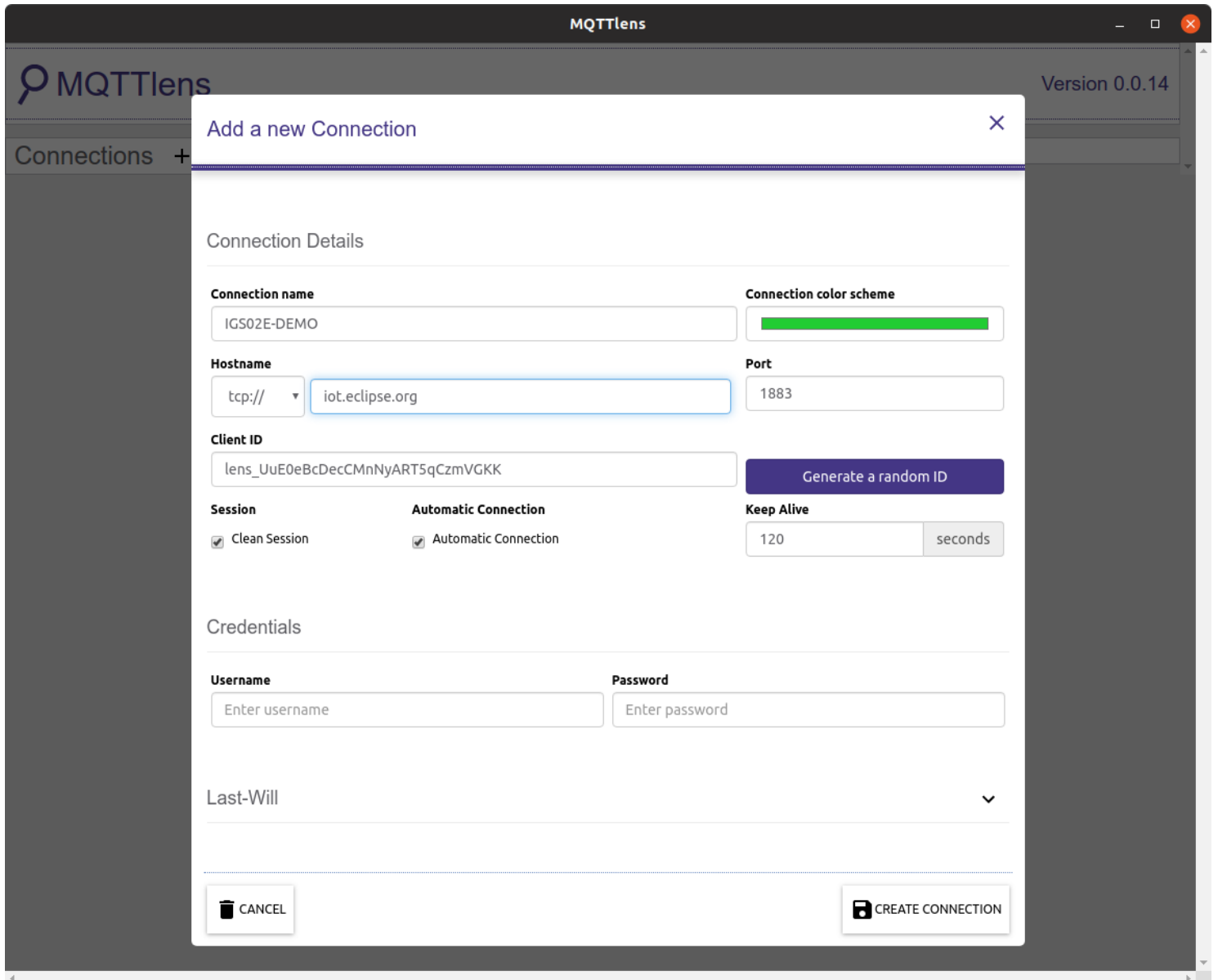
### Create a new connection:



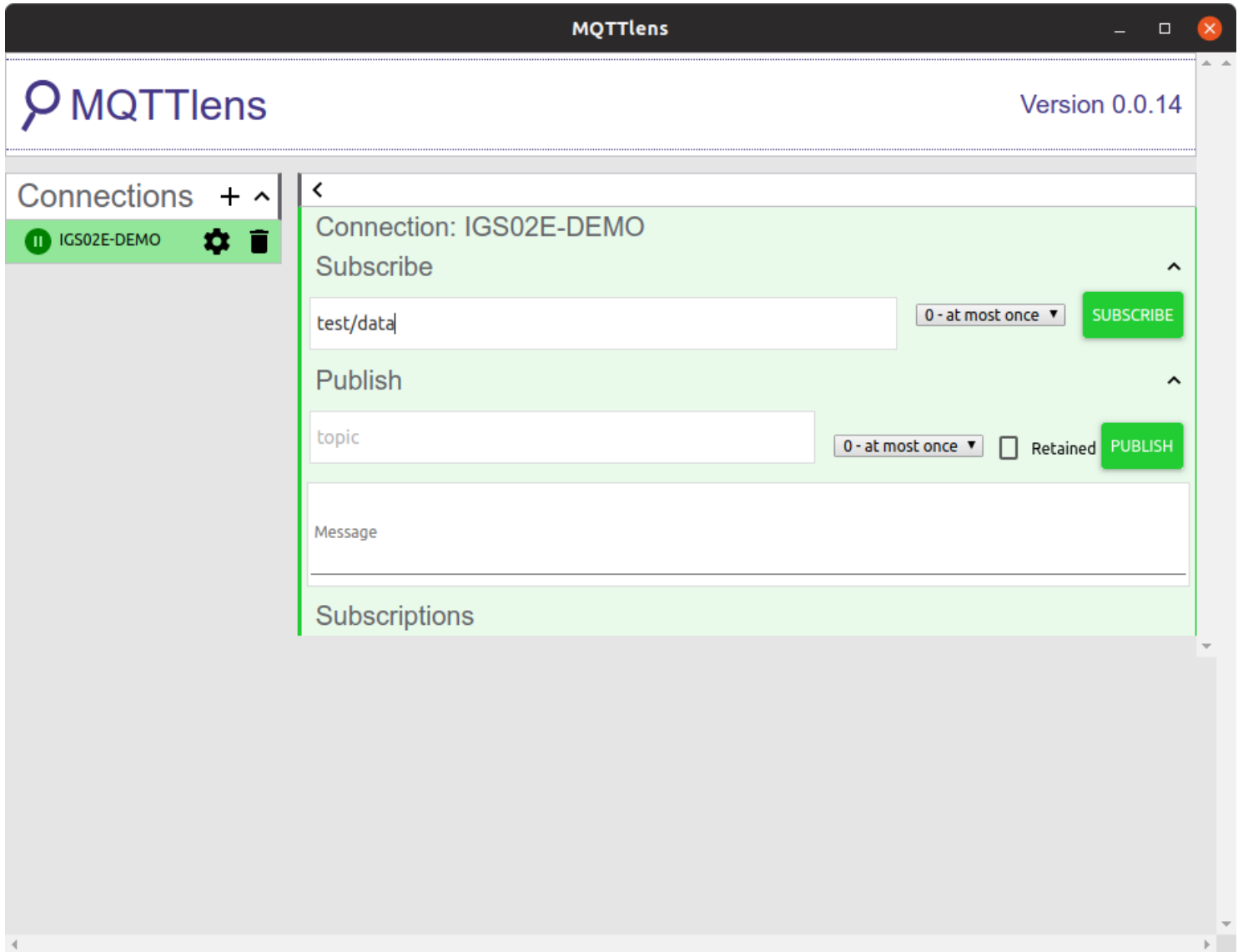
Set Hostname: iot.eclipse.org

Set Port: 1883

Then click "CREATE CONNECTION"



Set subscribe topic:



Received the published data:

The screenshot displays the MQTTLens web interface. On the left, a sidebar shows a connection named 'IGS02E-DEMO'. The main area shows the connection details, including the subscription topic 'test/data'. Below this, a list of messages is shown for the topic 'test/data', with the last 5 messages displayed. Each message entry includes a timestamp, the topic, and the QoS level. The message payloads are highlighted with red circles, showing the topic 'test/data' in each one.

#	Time	Topic	QoS	Message
0	8:53:54	test/data	0	\$GPRP,E4307654B092,AC83F3D44A32,-71,02010612FF590080BC470100FFFFFFFFFFFFFFFFFFFFFF
1	8:53:56	test/data	0	\$GPRP,0081F98609F7,AC83F3D44A32,-73,02010612FF0D0083BC280100AAAAFFFF000019060000
2	8:53:56	test/data	0	\$GPRP,D7F0FB88A08D,AC83F3D44A32,-41,02010612FF590080BC290100FFFFFFFFFFFFFFFFFFFFFF
3	8:53:59	test/data	0	\$GPRP,E4307654B092,AC83F3D44A32,-71,02010612FF590080BC470100FFFFFFFFFFFFFFFFFFFFFF

## Revision History

DATE	REVISION	CHANGES
May 16, 2019	1	Initial release