W&T connects

Interfaces for TCP/IP, Ethernet, RS-232, RS-485, USB, 20mA,
glass and plastic fiber optic cable, http, SNMP, OPC, Modbus TCP, I/O digital, I/O analog, ISA, PCI

W&T
www.WuT.de

Background knowledge/resources for MQTT:

Documentation, software and online services for MQTT

To give you a first overview of the MQTT universe, we have assembled relevant documents, software and websites. If you think an important entry is missing, we would be glad to hear from you.

Documentation

MQTT protocol - protocol for the Internet of Things
[de] heise developer - This article offers a good overview (in German) of MQTT and its functionality
https://www.heise.de/developer/artikel/MQTT-Protokoll-fuer-das-Internet-der-Dinge-2168152.html

Communication over MQTT
[de] The pragmatic architect of heise Developer shows practical examples of the MQTT client development for Arduino, JavaScript and Java.
https://www.heise.de/developer/artikel/Kommunikation-ueber-MQTT-3238975.html

MQTT Essentials
[en] A detailed introduction to MQTT is offered by the 10-part document series from HiveMQ, a commercial MQTT broker for business applications.
http://www.hivemq.com/mqtt-essentials

MQTT-Community-Wiki
This Wiki was originally part of the MQTT developer Andy Standford-Clark operated site mqtt.org. Today you can find it on Github.
https://github.com/mqtt/mqtt.github.io/wiki

Building Smarter Planet Solutions with MQTT and IBM WebSphere MQ Telemetry
[en] The IBM Redbook on the subject of MQTT offers concentrated expert knowledge in 270 pages. In addition to a brief introduction is contains many practical examples and demo scenarios.
http://www.redbooks.ibm.com/redbooks/pdfs/sg248054.pdf

MQTT Version 3.1.1 Plus Errata 01
[en] The OASIS standard (ISO/IEC 20922:2016) in the current version can be obtained at no charge at this address.
http://docs.oasis-open.org/mqtt/mqtt/v3.1.1/mqtt-v3.1.1.html

MQTT compatible hardware

Web-IO 4.0 Digital
Control, acquire and monitor switching signals over the network.
To product overview

Web Thermometers
Measuring instruments that acquire temperature, relative humidity and barometric pressure and make the values available in the network.
To product overview

rule.box
With Node-RED as the programming environment the rule.box has everything you need for acquiring, processing and sending data.
To product overview

MQTT.box
The MQTT.box is a complete Mosquitto MQTT broker for DIN rail mounting.
to data sheet

Development

Eclipse Paho
The Eclipse Paho project provides MQTT client libraries for a variety of programming languages.

https://www.eclipse.org/paho/

MQTT.fx
A valuable tool for interaction with MQTT applications.
http://mqttfx.jfx4ee.org

Brokers

Mosquitto
Free MQTT broker for a variety of operating systems, licensed through the Eclipse Public License.
https://mosquitto.org

emqtt
Another free message broker, written in Erlang.
https://emqtt.io

IBM WebsphereMQ
The messaging platform from IBM.
http://www.ibm.com/software/products/de/websphere-mq

HiveMQ
The German software maker dc² offers HiveMQ, a scaling MQTT solution for companies.
https://www.hivemq.com/

Clouds

Bosch IoT Cloud
A reliable cloud with the captured data stored in Germany.
https://www.bosch-si.com/de/produkte/bosch-iot-suite/iot-cloud/bosch-iot-cloud-2.html

IBM BlueMix
The cloud from IBM - free for up to 20 connected devices.
http://www.ibm.com/cloud-computing/bluemix/internet-of-things/de-de

Microsoft Azure IoT Hub
The IoT cloud from Microsoft also supports MQTT.
https://azure.microsoft.com/de-de/services/iot-hub

CloudMQTT
Scaling cloud solution, free for up to 10 devices.
https://www.cloudmqtt.com