

# MQTT: Integrity

Michael Ehrlinger, Vanessa Hermann, Nicolas Salomon, and Martin Weinhart

University Passau, 94032 Passau, Germany

**Abstract.** The abstract should briefly summarize the contents of the paper in 150–250 words.

This is only my testdocument, so there is not much to put in the abstract, so i will leave only this and the given example.

**Keywords:** MQTT · Integrity · Teamwork · # GoodGrade

## **1 Available Topics**

In this section, we can collect the topics given to us by Dr. Poehls. Every Team-member has to choose one of the provided topics to work one and fill a few pages with it.

## 2 Wordroom

A difficult and controversial name, I know, but its the best name i could think of, in this short amount of time I thought about it.

In this chapter we will collect all your speciality word, we will need, so if anyone of us needs to look up one of these, she or he can come here and won't need to google it and we will all use the same definition and explanation for it.

Word	Abbreviation	Explanation
Message Queuing Telemetry Transport	MQTT	ja darum geht es bei uns oder nicht?!!
Internet of Things	IoT	auch Internet 4.0, bindet auch immer mehr Embedded Systems mit ein.
MQTT Broker	-	Die Schnittstelle zwischen den Clients und dem was der Client anfragt.
MQTT Server	-	Gleichbedeutend mit MQTT Broker
Client	-	??
Subscriber	-	??
Message Authentication Code	MAC	an encrypted Key, which is part of a sendt packet, which van only be validated, when key is known.
Digital Signatures	-	Use private and public key technique, encrypt with private key, decrypt with public key
Transport Layer Security	TLS	A basic security technique often used with MQTT
Secure Socket Layer	SSL	vorhergehende Bezeichnung von TLS
Data Integrity	-	The recipient can make sure, that the data was not modified
Header	-	First part of a send package, which contains only information about the packet
Payload	-	Second part of a packet, which contains the information, which real interested the recipient