MQTT Communication

Datasheet – Rev. 3

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1. Configuration

COPA-DATA provides an integrated configuration tool for MQTT. The configurator is used for defining the parameters of one or several connections to brokers.

Properties	Description
Connection ID	Used to identify the connection in FB calls
Server	IP connection to the broker
Login	Login and password credentials
Options	MQTT session options
Will message	MQTT will testament configuration
MQTT version	Supports MQTT version 3.1 or 3.1.1
Security	TLS security parameters

2. Function blocks

The configurator is completed with a set of function blocks to:

- Connect / disconnect to the broker
- Publish messages
- Subscribe to messages
- Unsubscribe from messages
- Pump received messages

MQTT topic and payload are exchanged either as STRING variables (limited to 255 character) or as Text Buffers (unlimited).

3. Integration

The driver is delivered as a development kit, including source code for Linux and guidelines for integration in a STRATON runtime.

The driver uses the PAHO open source package (required but not included in the package).

The kit includes an OEM layer for support of security (e.g. TLS). This layer is not implemented by default and should be filled by the OEM.