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About the Document

History

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1 Introduction

MQTT (Message Queuing Telemetry Transport) is a broker-based publish/subscribe messaging protocol designed to be open, simple, lightweight and easy to implement. It is designed for connections with remote locations where a "small code footprint" is required or the network bandwidth is limited.

This document mainly introduces how to use the MQTT function of Quectel BC26 module through AT commands.

2 MQTT Data Interaction

This chapter gives the data interaction mechanism of MQTT function.

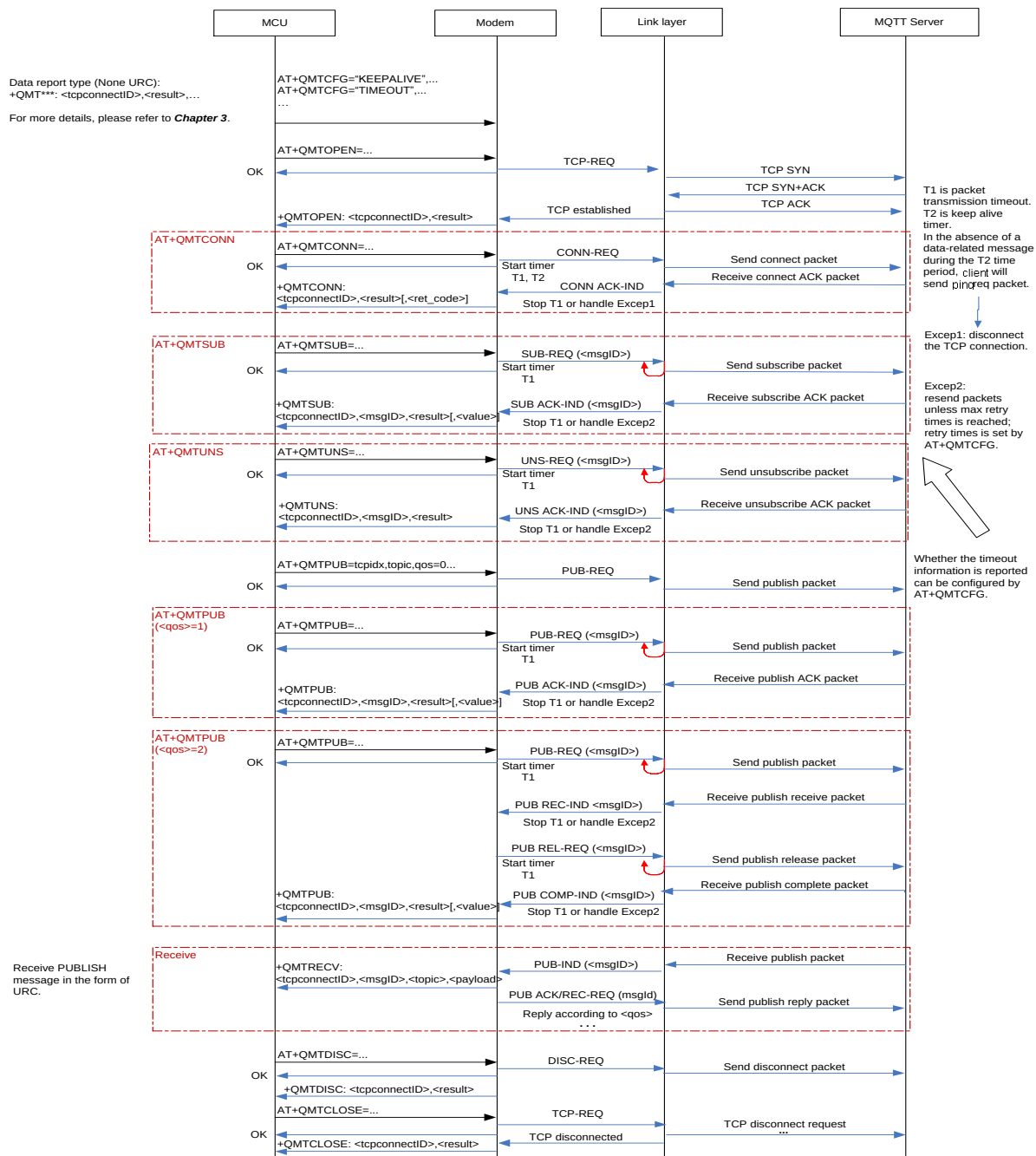


Figure 1: MQTT Data Interaction Mechanism

3 MQTT Related AT Commands

This chapter presents the AT commands for operating MQTT function.

3.1. AT Command Syntax

Table 1: Types of AT Commands and Responses

Test Command	AT+<x>=?	This command returns the list of parameters and value ranges set by the corresponding Write Command or internal processes.
Read Command	AT+<x>?	This command returns the currently set value of the parameter or parameters.
Write Command	AT+<x>=<...>	This command sets the user-definable parameter values.
Execution Command	AT+<x>	This command reads non-variable parameters affected by internal processes in the UE.

3.2. Description of MQTT Related AT Commands

3.2.1. AT+QMTCFG Configure Optional Parameters of MQTT

The command is used to configure optional parameters of MQTT.

AT+QMTCFG Configure Optional Parameters of MQTT

Test Command AT+QMTCFG=?	Response +QMTCFG: "keepalive",(0-5),(0-3600) +QMTCFG: "session",(0-5),(0,1) +QMTCFG: "timeout",(0-5),(1-60),(1-10),(0,1) +QMTCFG: "will",(0-5),(0,1),(0-2),(0,1),"will_topic","will_msg" +QMTCFG: "aliauth",(0-5),"productkey","devicename","devicesecret"
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Write Command Configure Will information AT+QMTCFG="WILL",<tcpconnectID>[,<will_fg>[,<will_qos>,<will_retain>,<will_topic>"],<will_msg>"]]	OK Response OK If <will_fg>, <will_qos>, <will_retain>, <will_topic> and <will_msg> are omitted, query the Will information: +QMTCFG: "will",<will_fg>[,<will_qos>,<will_retain>,<will_topic>,<will_msg>] OK If there is an error related to ME functionality: +CME ERROR: <err>
Write Command Configure timeout of message delivery AT+QMTCFG="TIMEOUT",<tcpconnectID>[,<pkt_timeout>[,<retry_times>][,<timeout_notice>]]]	Response OK If <pkt_timeout>, <retry_times>, <timeout_notice> are omitted, query the timeout value of message delivery: +QMTCFG: "timeout",<pkt_timeout>,<retry_times>,<timeout_notice> OK If there is an error related to ME functionality: +CME ERROR: <err>
Write Command Configure the session type AT+QMTCFG="SESSION",<tcpconnectID>[,<clean_session>]	Response OK If <clean_session> is omitted, query the session type: +QMTCFG: "session",<clean_session> OK If there is an error related to ME functionality: +CME ERROR: <err>
Write Command Configure the keep-alive time AT+QMTCFG="KEEPALIVE",<tcpconnectID>[,<keep-alive time>]	Response OK If <keep-alive time> is omitted, query the keep-alive time: +QMTCFG: "keepalive",<keep-alive time> OK

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