PERFECT WIRELESS EXPERIENCE

FIBOCOM L610 Series

AT Commands_CoAP

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Applicability Type

No.	Product Model	Description
1	L610 Series	NA

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Change History

Version	Author	Assessor	Approver	Update date	Description
V1.0.1	Wang Bingchao	Ma Menghan	Wang Hailiang	2020-06-13	Standardized format
V1.0.0	Wang Bingchao	Long Zhongyou	Long Zhongyou	2019-11-29	Initial version

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1 CoAP Commands

1.1 +GTCOAPOPEN, Create a CoAP client instance

1.1.1 Description

This command is used to create a CoAP client.

1.1.2 Syntax

Command	Response/Action
+GTCOAPOPEN=<Remote IP/URL>,<port>	+GTCOAPOPEN: <coap_id> OK or ERROR
+GTCOAPOPEN?	+GTCOAPOPEN: <coap_id> OK for each CoAP id that can be opened or +GTCOAPOPEN: 0 OK if there is no free client.
+GTCOAPOPEN=?	ERROR

1.1.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
Yes	No	Yes	Yes	< 1s

1.1.4 Defined Values

<Remote IP/URL>: CoAP server IP or URL address. IP of the remote site in the format "AAA.BBB.CCC.DDD". The range of each octet is 0-255. Value can be written in 1, 2, or 3 digits. URL mean Host name, of remote site. The host-name convention should meet the rules as describe in RFC-1035 section: 2.3 Conventions. Syntax is not validated, except the maximum length (255 characters).

<port>: integer type, CoAP server Port, Range 1-65535.

<coap_id>: CoAP client instance id created by the command.

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1.2 +GTCOAPSEND, Send CoAP DATA

1.2.1 Description

This command is used to send data to CoAP server with the created CoAP client instance.

1.2.2 Syntax

Command	Response/Action
+GTCOAPSEND=<coap_id>,<data_len>,<data>	OK or ERROR
+GTCOAPSEND?	ERROR
+GTCOAPSEND=?	ERROR

1.2.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
Yes	No	Yes	Yes	< 1s

1.2.4 Defined Values

<coap_id>: integer type, CoAP client instance id created by the AT+GTCOAPOPEN command.

<data_len>: integer type, send data length(by byte), max length 512.

<data>: string type, User data string is sent encoded with 0-F hexadecimal digits. The data must be enclosed with double quotation marks.

Note: Data must be formed according to CoAP protocol and add CoAP message header.

1.3+GTCOAPCLOSE, Free the CoAP client instance

1.3.1 Description

This command is used to free the created CoAP client instance.

1.3.2 Syntax

Command	Response/Action
+GTCOAPCLOSE=<coap_id>	OK +GTCOAPCLOSE: 1

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Command	Response/Action
	or ERROR
+GTCOAPCLOSE?	ERROR
+GTCOAPCLOSE=?	ERROR

1.3.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
Yes	No	No	Yes	< 1s

1.3.4 Defined Values

< coap_id>: integer type, CoAP client instance id created by the AT+GTCOAPOPEN command.

1.4+GTCOAPDATA, Response data from server

1.4.1 Description

If CoAP server response to the request after modem send CoAP data, the format of response is as this.

1.4.2 Syntax

Command	Response/Action
Unsolicited Response	+GTCOAPDATA: <coap_id>,<data_len>,<data>

1.4.3 Attributes

Pin Restricted	Persistent	Sync Mode	Effect Immediately	Time of Duration
NA	NA	NA	NA	NA

1.4.4 Defined Values

<coap_id>: integer type, CoAP client instance id created by the AT+GTCOAPOPEN command.

<data_len>: Receive data length (by byte), max length 512.

<data>: The hex data streaming. The data is not enclosed by double quotation marks.

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