Packet Domain Commands TRM250

Contents

Packet Domain Related Commands

ATT+CGATT Attachment or Detachment of PS

The Write Command is used to attach the MT to, or detach the MT from the Packet Domain service. After the command has been completed, the MT remains in V.25ter command state. If the MT is already in the requested state, the command is ignored and the **OK** response will be returned. If the requested state cannot be achieved, an **ERROR** or **+CME ERROR** response is returned.

AT+CGDCONT Define PDP Context

The command specifies PDP context parameters for a specific context **<cid>**. A special form of the Write Command (**AT+CGDCONT=<cid>**) causes the values for context **<cid>** to become undefined. It is not allowed to change the definition of an already activated context.

The Read Command returns the current settings for each defined PDP context.

AT+CGQREQ* Quality of Service Profile (Requested)

The command allows the TE to specify the quality of service profile that is used when the MT activates a PDP context.

The Write Command specifies a profile for the context **<cid>**. A special form of the Write Command, **AT+CGQREQ=<cid>** causes the requested profile for context number **<cid>** to become undefined. The

Read Command returns the current settings for each defined context. Details can be found in 3GPP TS 23.107 and all parameters are saved in NV automatically

AT+CGQMIN* Quality of Service Profile (Minimum Acceptable)

The command allows the TE to specify a minimum acceptable profile which is checked by the MT against the negotiated profile when the PDP context is activated. The write command specifies a profile for the context identified by the context identification parameter **<cid>**.

A special form of the write command, **AT+CGQMIN=<cid>** causes the minimum acceptable profile for context number <cid> to become undefined. In this case no check is made against the negotiated profile. The read command returns the current settings for each defined context. Details can be found in 3GPP TS 23.107 and all parameters are saved in NV automatically.

AT+CGACT Activate or Deactivate PDP Contexts

The Write Command is used to activate or deactivate the specified PDP context(s). After the command has been completed, the MT remains in V.250 command state. If any PDP context is already in the requested state, the state for that context remains unchanged. If the MT is not PS attached when the activation form of the command is executed, the MT first performs a PS attach and then attempts to activate the specified contexts. If no <cid>s specify the activation/deactivation form of the command, it will activate or deactivate all defined contexts.

AT+CGDATA* Enter Data Mode

The Write Command causes the MT to perform whatever actions that are necessary to establish communication between the TE and the network using one or more packet domain PDP types. This may include performing a PS attach and one or more PDP context activations. Commands following the **AT+CGDATA** command in the AT command line will not be processed by the MT.

If the **<L2P>** parameter value is unacceptable to the MT, the MT shall return an **ERROR** or **+CME ERROR** response. Otherwise, the MT issues the intermediate result code **CONNECT** and enters V.250 online data state. After data transfer is completed, and the layer 2 protocol termination procedure has been completed successfully, the command mode is reentered and the MT returns the final result code **OK**.

AT+CGPADDR Show PDP Address

The Write Command returns a list of PDP addresses for the specified context identifiers. If no **<cid>** is specified, the addresses for all defined contexts are returned.

AT+CGREG Network Registration Status

The command queries the network registration status and controls the presentation of an unsolicited result code **+CGREG: <stat>** when **<n>**=1 and there is a change in the MT's GPRS network registration status in GERAN, or unsolicited result code **+CGREG: <stat>[,[<lac>],[<ci>],[<AcT>],[<rac>]]** when **<n>**=2 and there is a change of the network cell in GERAN.

AT+CGEREP Packet Domain Event Report

The Write Command enables or disables sending of unsolicited result codes **+CGEV: XXX** from MT to TE in the case of certain events occurring in the packet domain MT or the network. **<mode>** controls the processing of unsolicited result codes specified within this command. **<bfr>** controls the effect on buffered codes when **<mode>** 1 or 2 is entered.

AT+CGSMS Select Service for MO SMS Messages

The command specifies the service or service preference that the MT will use to send MO (mobile originated) SMS messages.

AT+CEREG EPS Network Registration Status

The command queries the network registration status and controls the presentation of:

- the unsolicited result code **+CEREG: <stat>** when **<n>**=1 and there is a change in the MT's EPS network registration status in E-UTRAN,
- the unsolicited result code **+CEREG: <stat>[,[<tac>],[<ci>],[<AcT>]]** when **<n>**=2 and there is a change of the network cell in E-UTRAN, and
- the unsolicited result code **+CEREG: <stat>[,[<tac>],[<ci>],[<AcT>][,,[,[<Active-Time>],[<Periodic -TAU>]]]]** when **<n>**=4 and there is a change of the network cell in E-UTRAN.

AT+QGDCNT Packet Data Counter

The command allows the application to check how much bytes are sent to or received by the module

AT+QAUGDCNT Auto Save Packet Data Counter

The command allows **AT+QGDCNT** command to save results to NV automatically