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| **Technical Specification GSM / UMTS:** | | | | 07.07 | | Version | | 7.3.0 |  | | |
|  | | | | | | | | | | | |
| Submitted to TSG | #6 | | for approval | | **x** | Without presentation ("non-strategic") | | | | **x** |  |
| *list plenary meeting or STC here* ↑ | | for information | | |  | With presentation ("strategic") | | | |  |  |
| *PT SMG CR cover form. Filename: crf26\_3.doc* | | | | | | | | | | | |

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| **Proposed change affects:** | SIM |  | ME | **x** | Network |  |

*(at least one should be marked with an X)*

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| **Work item:** | GPRS |

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| **Source:** | Vodafone | **Date:** | 3/6/99 |

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| **Subject:** | AT command - Request GPRS service 'D' |

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| **Category:** | F Correction |  | **Release:** | Phase 2 |  |
|  | A Corresponds to a correction in an earlier release | **x** |  | Release 96 |  |
| *(one category* | B Addition of feature |  |  | Release 97 |  |
| *and one release* | C Functional modification of feature |  |  | Release 98 | **x** |
| *only shall be* | D Editorial modification |  |  | Release 99 |  |
| *marked with an X)* |  |  |  | UMTS |  |

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| **Reason for  change:** | Editorial clarification and correction to 07.07 for the ‘D’ modem compatibility command. This change was requested by implementers and clarifies the use of the ATD command for GPRS. |

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| **Clauses affected:** | 10.2.1.1 |

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| **Other specs** | Other releases of same spec |  | → List of CRs: |  |
| **affected:** | Other core specifications |  | → List of CRs: |  |
|  | MS test specifications / TBRs |  | → List of CRs: |  |
|  | BSS test specifications |  | → List of CRs: |  |
|  | O&M specifications |  | → List of CRs: |  |

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| **Other  comments:** | This CR format relies on the current split of AT commands out of 07.60 into 07.07having taken place. |

 <--------- double-click here for help and instructions on how to create a CR.

#### 10.2.1.1 Request GPRS service 'D'

Table 14: D command syntax

|  |  |
| --- | --- |
| **Command** | **Possible Response(s)** |
| D\*<GPRS\_SC>[\*[<called\_address>] [\*[<L2P>][\*[<cid>]]]]# | CONNECT ERROR |

**Description**

This command causes the MT to perform whatever actions are necessary to establish communication between the TE and the external PDN.

The V.250 'D' (Dial) command causes the MT to enter the V.250 online data state and, with the TE, to start the specified layer 2 protocol. The MT shall return CONNECT to confirm acceptance of the command prior to entering the V.250 online data state. No further commands may follow on the AT command line.

The detailed behaviour after the online data state has been entered is dependent on the PDP type. It is described briefly in clauses 8 (for X.25) and 9 (for IP) of GSM 07.60. GPRS attachment and PDP context activation procedures may take place prior to or during the PDP startup if they have not already been performed using the +CGATT and +CGACT commands.

When the layer 2 protocol has terminated, either as a result of an orderly shut down of the PDP or an error, the MT shall enter V.250 command state and return the NO CARRIER final result code.

If <called address> is supported and provided, the MT shall automatically set up a virtual call to the specified address after the PDP context has been activated.

If <L2P> and <cid> are supported, their usage shall be the same as in the +CGDATA command. The +CGDCONT, +CGQREQ, etc. commands may then be used in the modem initialisation AT command string to set values for APN, QoS etc..

If <L2P> is not supported or is supported but omitted, the MT shall use a layer 2 protocol appropriate to the PDP type.

If <cid> is not supported or is supported but omitted, the MT shall attempt to activate the context using:

(a) any information provided by the TE during the PDP startup procedure, e.g. the TE may provide a PDP type and/or PDP address to the MT,

or, (b) a priori knowledge, e.g. the MT may implement only one PDP type,

or, (c) using the 'Empty PDP type' (GSM 04.08). (No PDP address or APN shall be sent in this case and only one PDP context subscription record shall be present in the HLR for this subscriber.)

This command may be used in both normal and modem compatibility modes.

NOTE. The dial string conforms to the syntax specified in GSM 02.30.

**Defined Values**

<GPRS\_SC>: (GPRS Service Code) a digit string (value 99) which identifies a request to use the GPRS

<called\_address>: a digit string (see note) that specifies the address of a called party in the address space applicable to the PDP.

<L2P>: a digit string (see note) which indicates the layer 2 protocol to be used (see +CGDATA command).  
Numeric equivalents to the alphanumeric values used by +CGDATA are:  
1 PPP  
2 PAD  
3 X25  
9yyyy M-xxxx  
Other values are reserved and will result in an ERROR response to the set command.

NOTE. V.250 (and certain communications software) does not permit arbitrary characters in the dial string. The <L2P> and <called\_address> strings are therefore specified as containing digits (0-9) only.

<cid>: a digit string which specifies a particular PDP context definition (see +CGDCONT command).

**Implementation**

Optional if the +CGDATA command is supported. If the D command is provided, then support for <called\_address>, <L2P> and <cid> are optional. If they are not supported but values are provided by the TE, the values shall be ignored and this shall not constitute an error.