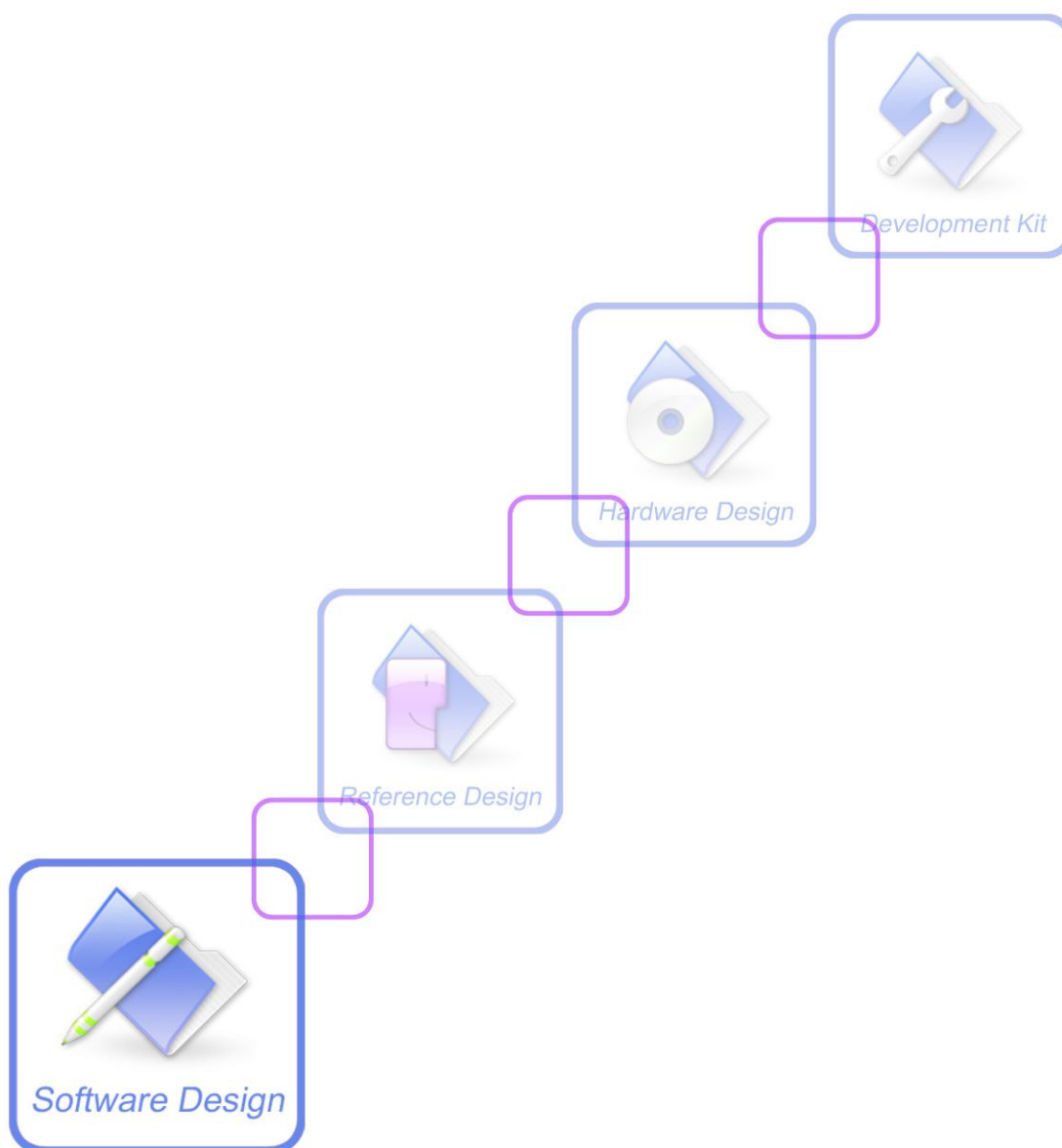




AT Command Set

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Version History

Version	Chapter	Comments
V0.01	New Version	
V0.02	1.7 AT+CECALLSMSD	Modify this command
V0.03	1.4 AT+CECALLTRIG 1.8 AT+CECALLMODE 1.9 AT+CECALLSMSD	Remove this commands
V0.04	1.7 AT+CECALLTOUT 1.8 AT+CMSDMESSAGEID	Add this commands
V0.05	1.1 AT+CECALLS	Modify this command
V0.06	1.9 AT+CMSDOIDDATA 1.10 AT+CMSD 1.11 AT+CMSDCONTROL 1.1 AT+CECALLS	Add and modify this commands Modify this command

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1 SIM DM AT commands

1.1 AT+CECALLS Make e-call

Description

The command is used to make an e-call.

Note: Test call need to unlock PIN code, Emergency call does not need to unlock PIN code

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLS=?	+CECALLS: (scope of <cannedMSD>) OK
Write Command	Responses
AT+CECALLS=<num>,<ca nnedMSD>	OK ERROR

Defined values

<num>	Dialing number.
<cannedMSD>	Use the canned GPS information or real GPS information. 0 — Send real MSD 1 — Send canned MSD

Examples

```
AT+CECALLS=18621008925,1
OK
```

1.2 AT+CECALLE Hang up e-call

Description

The command is used to hang up the e-call.

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLE=?	OK
Execution Command	Responses
AT+CECALLE	OK VOICE CALL: END: <time>
	<i>No call:</i> OK

Defined values

<time>

Voice call connection time.

Format – HHMMSS (HH: hour, MM: minute, SS: second)

Examples

AT+CECALLE

OK

1.3 AT+CECALLCFG Configure e-call MSD information

Description

The command is used to configure the MSD information.

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLCFG=?	OK
Write Command	Responses
AT+CECALLCFG=<vehicle type>,<storage>,<num>,<vin>,<vehicledirection>,<delta1_lon>,<delta1_lat>,<delta2_lon>,<delta2_lat>	OK ERROR

Defined values

<vehicletype>

1 — Passenger vehicle class M1

- 2 — Buses and coaches class M2
- 3 — Buses and coaches class M3
- 4 — Light commercial vehicles class N1
- 5 — Heavy duty vehicles class N2
- 6 — Heavy duty vehicles class N3
- 7 — Motorcycles class L1e
- 8 — Motorcycles class L2e
- 9 — Motorcycles class L3e
- 10 — Motorcycles class L4e
- 11 — Motorcycles class L5e
- 12 — Motorcycles class L6e
- 13 — Motorcycles class L7e

<storage>

Propulsion storage: It should choice multi-storage. decimal number

NOTE Example: Choice “Electric energy storage” and “Diesel tank present”, the <storage> must be set by 18. (i.e. 2 or 16 equal 18)

- 0 — Unknown or other type of energy storage
- 1 — Hydrogen storage
- 2 — Electric energy storage
- 4 — Liquid propane gas
- 8 — Compressed natural gas
- 16 — Diesel tank present
- 32 — Gas online tank present

Range is 0~63.

<num>

Number of passenger. Range is 0~255.

<vin>

Vehicle id number. Length of <vin> must be 17.

VIN number according to ISO 3779. including:

1. World Manufacturer Index (WMI)
2. Vehicle Type Descriptor (VDS)
3. Vehicle Identification Sequence (VIS)

The character in VIN must be the member of this table:

("A".."H"|"J".."N"|"P"|"R".."Z"|"0".."9")

<vehicledirection>

The direction of travel in 2°-degrees steps from magnetic north (0– 358, clockwise). Only values from 0 to 179 are valid. If direction of travel is invalid or unknown, the value 0xFF shall be used.

Unit is 2 degree. Range of <vehicledirection> is 0~179.

<delta1_lon>

Description of recent vehicle longitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

<delta1_lat>

Description of recent vehicle latitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

<delta2_lon>

Description of recent vehicle longitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

<delta2_lat>

Description of recent vehicle latitude location before the incident. 1 Unit = 100 miliarcseconds, which is approximately 3m.

Coded value range (-512..511) representing -51200 to +51100 miliarcseconds, or from 51,2”S to 51,1”N from the reference position.

Examples

```
AT+CECALLCFG=5,18,8,"WMJVDSVDSYA123456",14,10,-10,20,-20
OK
```

1.4 AT+CECALLPOS Set position information

Description

The command is used to set position information.

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLPOS=?	OK
Write Command	Responses
AT+CECALLPOS=<lon>,<l at>	OK
	ERROR

Defined values

<lon>

Longitude of current position, format is ddd.dxxxxx. Unit is degree. Range is -180~180.

<lat>

Latitude of current position, format is dd.dxxxxx. Unit is degree. Range is -90~90.

Examples

```
AT+CECALLPOS="121.354138","31.221938"
```

```
OK
```

1.5 AT+CECALLTIME Set timestamp

Description

The command is used to set timestamp.

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLTIME=?	OK
Write Command	Responses
AT+CECALLTIME=<flag>[,<year>,<month>,<day>,<hour>,<minute>,<second>]	OK
	ERROR

Defined values

<flag>

0 - use system time, not need to set <year>,<month>,<day>,<hour>,<minute>,<second>

1 - must set <year>,<month>,<day>,<hour>,<minute>,<second>

<year>

Year : integer

Range is 1970~2100

<month>

Month : integer

Range is 1~12

<day>

Day : integer

Input range :

Jan \ Mar \ May \ Jul \ Aug \ Oct \ Dec: 1~31

Feb: 1~28 (1~29 if leap year)

Apr \ Jun \ Sep \ Nov: 1~30

<hour>

Hour : integer

Range is 0~23

<minute>

Minute : integer

Range is 0~59

<second>

Second : integer

Rang is 0~59

Examples

```
AT+CECALLTIME=1,2011,10,20,15,30,30
```

```
OK
```

1.6 AT+CECALLFMT Set MSD serialize format

Description

The command is used to set MSD pack format

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLFMT=?	+CECALLFMT: (list of supported <fmt>) OK
Read Command	Responses
AT+CECALLFMT?	+CECALLFMT: <fmt> OK
Execution Command	Responses
AT+CECALLFMT=<fmt>	OK ERROR

Defined values

<fmt>

0 - set MSD serialize format as bytes (qualcomm default format, other European country)

1 - set MSD serialize format as bits (just for Russia ecall)

Examples

```
AT+CECALLFMT=1
OK
```

1.7 AT+CECALLTOUT Set T5, T6, T7 timeout value

Description

The command is used to set T5,T6,T7 timeout value

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CECALLTOUT=?	+CECALLTOUT:T5=2000,T6=5000,T7=20000 (T5 default value 2000 ms, T6 default value 5000 ms, T7 default value 20000 ms) OK
Execution Command	Responses
AT+CECALLTOUT=<TX>, <timeoutvalue>	OK ERROR

Defined values

<TX>

T5 - The timer of IVS waiting for START, default timeout value is 2 seconds. The timeout value will not be saved to NV. You should set the timeout value before organizing the eCall. For further information about this timer, please refer to EN 16062.

Range is 2000-255000 ms.

T6 - The timer of IVS waiting for HACK, default timeout value is 5 seconds. The timeout value will not be saved to NV. You should set the timeout value before organizing the eCall. For further information about this timer, please refer to EN 16062.

Range is 5000-255000 ms.

T7 - The timer for MSD transmission, default timeout value is 20 seconds. The timeout value will not be saved to NV. You should set the timeout value before organizing the eCall. For further information about this timer, please refer to EN 16062.

Range is 20000-255000 ms.

Examples

```
AT+CECALLTOUT="T5",4000
OK
```

1.8 AT+CMSDMESSAGEID Set the initiatory message identifier of msd data Description

The command is used to set the initiatory message identifier of msd data

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CMSDMESSAGEID=?	+CMSDMESSAGEID: (1-255) OK
Read Command	Responses
AT+CMSDMESSAGEID?	+CMSDMESSAGEID: 1 OK
Execution Command	Responses
AT+CMSDMESSAGEID=< messageid>	OK ERROR

1.9 AT+CMSDOIDDATA Set the optional additional data

The command is used to set the optional additional data

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CMSDOIDDATA=?	OK
Execution Command	Responses

AT+CMSDOIDDATA=<oid	OK
>,<odata>	ERROR

Defined values

<oid>

Object identifier which uniquely identifies the format and meaning of the data which follows. (oid is decimal string)

<odata>

Transparent optional additional data. (odata is hex string) which maximum size is 100 bytes.

Examples

```
AT+CMSDOIDDATA="1.2.125","30304646"
OK
```

1.10 AT+CMSD input hex Minimum set of data(MSD)

The command is used to input hex Minimum set of data

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CMSD=?	OK
Execution Command	Responses
AT+CMSDOIDDATA=<ms <d>	OK ERROR

Defined values

<msd>

the hex msd data generated by user which maximum size is 140 bytes.

Examples

```
AT+CMSD="015C0681508204420014264000420D101404E80DA4C89A3B2F09905B6440E829F
6829EC020301027D04303046460"
OK
```

1.11 AT+CMSDCONTROL Set the control data in Minimum set of data (MSD)

The command is used to set the control data in Minimum set of data(MSD)

SIM PIN	References
NO	Vendor

Syntax

Test Command	Responses
AT+CMSDCONTROL=?	OK
Execution Command	Responses
AT+CMSDCONTROL=<activationType>,<callType>,<positionCanBeTrusted>	OK ERROR

Defined values

<activationType >
Manual activation(by pushing the emergency button) or automatic activation(by hitting sensors).
0 — Manual activation
1 — Automatic activation
< callType>
e-call type:
0 — Emergency call
1 — Test call
< positionCanBeTrusted >
0 — low confidence in position
1 — Position can be trusted

Examples

AT+CMSDCONTROL=1,1,1
OK

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