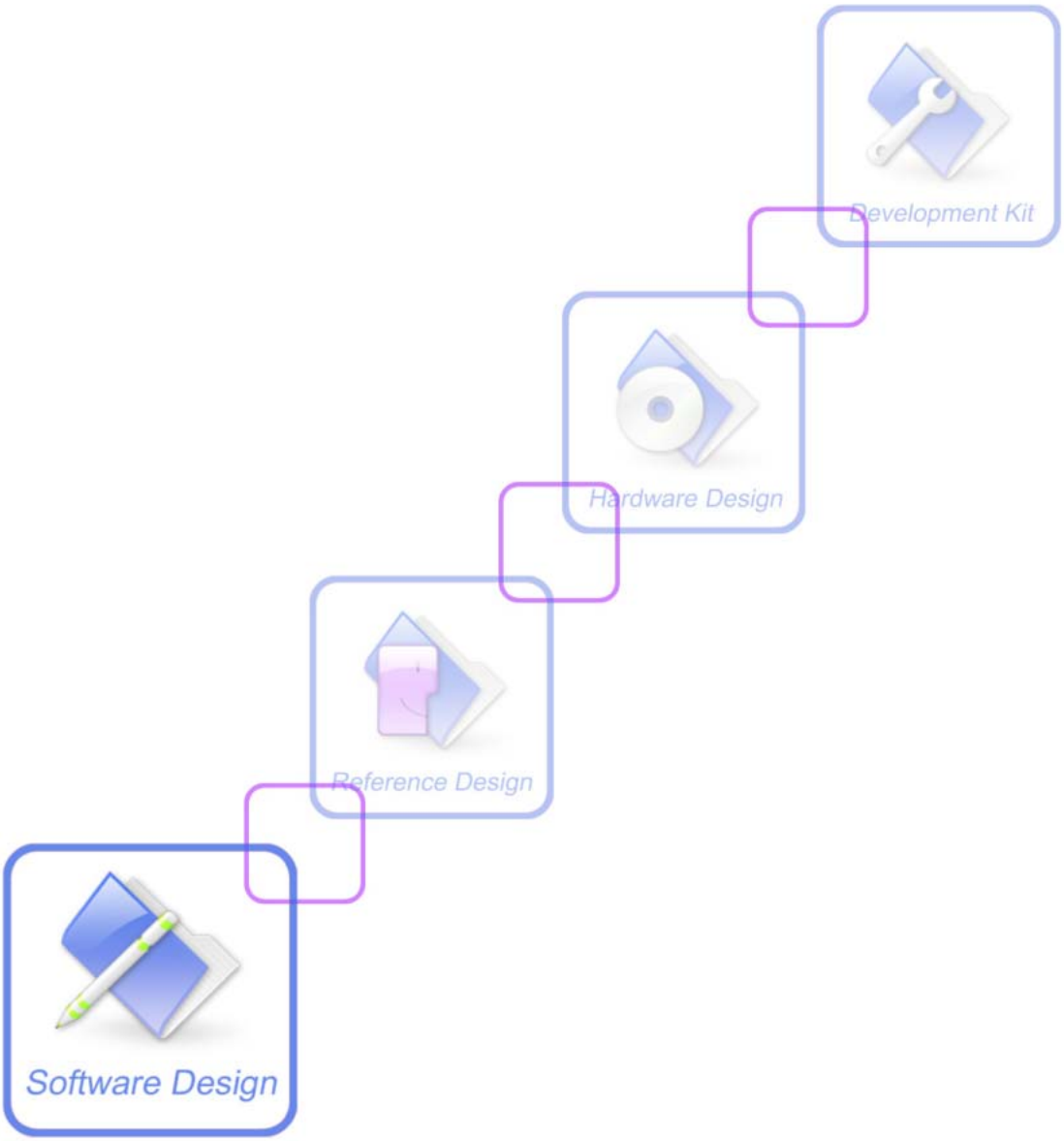
AT Command Set

For SIMCOM_MMS_ATC_V1.00



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Version History

Version	Chapter	Comments
V1.00	New Version	

Contents

1 Introduction

1.1 Scope

The present document describes the MMS AT Command Set for the SIMCom SIM52XX Module. More information about the SIMCom Module which includes the Software Version information can be retrieved by the command ATI. In this document, a short description, the syntax, the possible setting values and responses, and some examples of AT commands are presented.

Prior to using the Module, please read this document and the Version History to know the difference from the previous document.

In order to implement communication successfully between Customer Application and the Module, it is recommended to use the AT commands in this document, and not to use commands which are not included in this document.

1.2 References

The present document is based on the following standards:

[1] ETSI GSM 01.04: Abbreviations and acronyms.
[2] 3GPP TS 23.140: Multimedia Messaging Service (MMS); Functional description; Stage 2.
[3] 3GPP TS 27.007: AT command set for User Equipment (UE).
[4] WAP-224-WTP-20010710-a
[5] WAP-230-WSP-20010705-a
[6] WAP-209-MMSEncapsulation-20010601-a

1.3 Terms and Abbreviations

For the purposes of the present document, the following abbreviations apply:

- AT ATtention; the two-character abbreviation is used to start a command line to be sent from TE/DTE to TA/DCE
- CSD Circuit Switched Data
- DCE Data Communication Equipment; Data Circuit terminating Equipment
- DCS Digital Cellular Network
- DTE Data Terminal Equipment
- DTMF Dual Tone Multi–Frequency
- EDGE Enhanced Data GSM Environment
- EGPRS Enhanced General Packet Radio Service
- GPIO General–Purpose Input/Output
- GPRS General Packet Radio Service
- GSM Global System for Mobile communications

- HSDPA High Speed Downlink Packet Access
- HSUPA High Speed Uplink Packet Access
- I2C Inter–Integrated Circuit
- IMEI International Mobile station Equipment Identity
- IMSI International Mobile Subscriber Identity
- ME Mobile Equipment
- MMS Multimedia message system
- MO Mobile–Originated
- MS Mobile Station
- MT Mobile–Terminated; Mobile Termination
- PCS Personal Communication System
- PDU Protocol Data Unit
- PIN Personal Identification Number
- PUK Personal Unlock Key
- SIM Subscriber Identity Module
- SMS Short Message Service
- SMS–SC Short Message Service – Service Center
- TA Terminal Adaptor; e.g. a data card (equal to DCE)
- TE Terminal Equipment; e.g. a computer (equal to DTE)
- UE User Equipment
- UMTS Universal Mobile Telecommunications System
- URL Uniform resource locator
- USIM Universal Subscriber Identity Module
- WCDMA Wideband Code Division Multiple Access

1.4 Definitions and conventions

1. For the purpose of the present document, the following syntactical definitions apply:

<CR>	Carriage return character.
<LF>	Line feed character.
<…>	Name enclosed in angle brackets is a syntactical element. Brackets themselves do not appear in the command line.
[…]	Optional sub-parameter of AT command or an optional part of TA information response is enclosed in square brackets. Brackets themselves do not appear in the command line. If sub-parameter is not given, its value equals to its previous value or the recommended default value.
underline	Underline-defined sub-parameter value is the recommended default setting or factory setting.

2. Document conventions:

- Display the examples of AT commands with *Italic* format.
- Not display *blank-line* between command line and responses or inside the responses.

- Generally, the characters <CR> and <LF> are intentionally omitted throughout this document.
- If a command response is ERROR, not list the ERROR response inside command syntax.

NOTE AT commands and responses in figures may be not following above conventions.

3. Special marks for commands or parameters:

SIM PIN – Is the command PIN protected?

YES – AT command can be used only when SIM PIN is READY.

NO – AT command can be used when SIM card is absent or SIM PIN validation is pending.

References – Where is the derivation of command?

3GPP TS 27.007 – 3GPP Technical Specification 127 007.

V.25ter – ITU–T Recommendation V.25ter.

Vendor – The command is supported by SIMCom.

2 AT Interface Synopsis

2.1 Interface settings

Between Customer Application and the Module, standardized RS–232 interface is used for the communication, and default values for the interface settings as following:

115200bps, 8 bit data, no parity, 1 bit stop, no data stream control.

2.2 AT command syntax

The prefix "AT" or "at" (no case sensitive) must be included at the beginning of each command line (except A/ and +++), and the character <CR> is used to finish a command line so as to issue the command line to the Module. It is recommended that a command line only includes one command.

When Customer Application issues a series of AT commands on separate command lines, leave a pause between the preceding and the following command until information responses or result codes are retrieved by Customer Application, for example, "OK" is appeared. This advice avoids too many AT commands are issued at a time without waiting for a response for each command.

In the present document, AT commands are divided into three categories: Basic Command, S Parameter Command, and Extended Command.

1. Basic Command

The format of Basic Command is "**AT<x><n>**" or "**AT&<x><n>**", "**<x>**" is the command name, and "**<n>**" is/are the parameter(s) for the basic command, and optional. An example of Basic Command is "ATE<n>", which informs the TA/DCE whether received characters should be echoed back to the TE/DTE according to the value of "**<n>**"; "**<n>**" is optional and a default value will be used if omitted.

2. S Parameter Command

The format of S Parameter Command is "**ATS<n>=<m>**", "**<n>**" is the index of the S–register to set, and "**<m>**" is the value to assign to it. "**<m>**" is optional; in this case, the format is "**ATS<n>**", and then a default value is assigned.

3. Extended Command

The Extended Command has several formats, as following table list:

Table 2-1: Types of Extended Command

Command Type	Syntax	Comments
Test Command	AT+<NAME>=?	Test the existence of the command; give some information about the command

		sub-parameters.
Read Command	AT+<NAME>?	Check the current values of sub-parameters.
Write Command	AT+<NAME>=<…>	Set user-definable sub-parameter values.
Execution Command	AT+<NAME>	Read non-variable sub-parameters determined by internal processes.

NOTE The character "+" between the prefix "AT" and command name may be replaced by other character. For example, using "#" or "$" instead of "+".

2.3 Information responses

If the commands included in the command line are supported by the Module and the sub-parameters are correct if presented, some information responses will be retrieved by from the Module. Otherwise, the Module will report "ERROR" or "+CME ERROR" or "+CMS ERROR" to Customer Application.

Information responses start and end with <CR><LF>, i.e. the format of information responses is "<CR><LF><response><CR><LF>". Inside information responses, there may be one or more <CR><LF>. Throughout this document, only the responses are presented, and <CR><LF> are intentionally omitted.

3 MMS Commands

3.1 AT+CMMSCURL Set the URL of MMS center

Description

The command is used to set the URL of MMS center.

Syntax

Test Command	Responses
AT+CMMSCURL=?	+CMMSCURL:"URL" OK
Read Command	Responses
AT+CMMSCURL?	+CMMSCURL: "<mmscurl>" OK
Write Command	Responses
AT+CMMSCURL="<mmscurl>"	OK ERROR +CME ERROR: <err>

Defined values

<mmscurl>
The URI of MMS center, not including "http://"

Examples

AT+CMMSCURL=" mmsc.monternet.com"
OK
AT+CMMSCURL?
+CMMSCURL:" mmsc.montemet.com"
OK
AT+CMMSCURL=?
+CMMSCURL:"URL"
OK

3.2 AT+CMMSPROTO Set the protocol parameters and MMS proxy

Description

The command is used to set the protocol parameters and MMS proxy address.

Syntax

Test Command	Responses
AT+CMMSPROTO=?	+CMMSPROTO: (0,1),"(0-255).(0-255).(0-255).(0-255)",(0-65535) OK
Read Command	Responses
AT+CMMSPROTO?	+CMMSPROTO: <type>,<gateway>,<port> OK
Write Command	Responses
AT+CMMSPROTO=<type>,[<gateway>,<port>	OK ERROR +CME ERROR: <err>

Defined values

<type>
The application protocol for MMS: 0 – WAP 1 – HTTP
<gateway>
IP address of MMS proxy
<port>
Port of MMS proxy

Examples

AT+CMMSPROTO=0,"10.0.0.172",9201
OK
AT+CCMMSPROTO?
+CMMSPROTO: =0,"10.0.0.172",9201 *OK*
AT+CMMSPROTO=?
+CMMSPROTO: (0,1),"(0-255).(0-255).(0-255).(0-255)",(0-65535) *OK*

3.3 AT+CMMSSENDCFG Set the parameters for sending MMS

Description

The command is used to set the parameters for sending MMS.

Syntax

Test Command	Responses
AT+CMMSSENDCFG=?	+CMMSSENDCFG: (0-6),(0-3),(0,1),(0,1),(0-2),(0-4) OK
Read Command	**Responses**
AT+CMMSSENDCFG?	+CMMSSENDCFG: <valid>,<pri>,<sendrep>,<readrep>,<visible>,<class> OK
Write Command	**Responses**
AT+CMMSSENDCFG=<valid>,<pri>,<sendrep>,<readrep>,<visible>,<class>	OK ERROR +CME ERROR: <err>

Defined values

<valid>

The valid time of the sent MMS:

0 – 1 hour.
1 – 12 hours.
2 – 24 hour.
3 – 2 days.
4 – 1 week.
5 – maximum.
6 – Not set (default).

<pri>

Priority:

0 – lowest.
1 – normal.
2 – highest.
3 – Not set (default)

<sendrep>

Whether need delivery report:

0 – No (default).
1 – Yes.

<readrep>

Whether need read report:

0 – No (default).
1 – Yes.

<visible>

Whether to show the address of the sender: 0 – hide the address of the sender. 1 – Show the address of the sender even if it is a secret address. 2 – Not set (default).
<class>
The class of MMS: 0 – personal. 1 – advertisement. 2 – informational. 3 – auto. 4 – Not set (default).

Examples

AT+CMMSSENDCFG=6,3,1,1,2,4
OK
AT+CMMSSENDCFG?
+CMMSSENDCFG:6,3,1,1,2,4
OK
AT+CMMSSENDCFG=?
+CMMSSENDCFG: (0-6),(0-3),(0,1),(0,1),(0-2),(0-4)
OK

3.4 AT+CMMSEDIT Enter or exit edit mode

Description

The command is used to enter or exit edit mode of mms.

Syntax

Test Command	Responses
AT+CMMSEDIT=?	+CMMSEDIT: (0,1) OK
Read Command	**Responses**
AT+CMMSEDIT?	+CMMSEDIT: <mode> OK
Write Command	**Responses**
AT+CSMS=<mode>	OK ERROR +CME ERROR: <err>

Defined values

<mode>
Whether to allow edit MMS: 0 – No. 1 – Yes.

Examples

AT+CMMSEDIT=0
OK
AT+CMMSEDIT?
+CMMSEDIT:0 *OK*
AT+CMMSEDIT=?
+CMMSEDIT:(0-1) *OK*

3.5 AT+CMMSDOWN Download the file data or title from UART

Description

This command is used to download file data to MMS body. When downloading a text file or title from UART, the text file or title must start with \xFF\xFE , \xFE\xFF or \xEF\xBB\xBF to indicate whether it is UCS2 little endian, UCS2 big endian or UTF-8 format. Without these OCTETS, the text file or title will be regarded as UTF-8 format.

Syntax

Test Command	Responses
AT+CMMSDOWN=?	+CMMSDOWN: "PIC",(1-<max_pdu_size>),"NAME" +CMMSDOWN: "TEXT",(1-<max_pdu_size>),"NAME" +CMMSDOWN: "AUDIO",(1-<max_pdu_size>),"NAME" +CMMSDOWN: "VIDEO",(1-<max_pdu_size>),"NAME" +CMMSDOWN: "SDP",(1-<max_pdu_size>),"NAME" +CMMSDOWN: "FILE",(0-9),"FILENAME" +CMMSDOWN: "TITLE",(1-40) OK
Write Command	Responses
AT+CMMSDOWN=<type>,<size>[,<name>] Or AT+CMMSDOWN=<type>,<dir>,<filepath>	OK ERROR +CME ERROR: <err>

Defined values

<type>

The type of file to download:

"PIC" – JPG/GIF/PNG/TIFF file.

"TEXT" – plain text file.

"AUDIO" – MIDI/WAV/AMR/MPEG file.

"VIDEO" – 3GPP/MP4 file.

"SDP" – application/sdp type

"FILE" – file in the UE.

"TITLE" – subject of the MMS.

<size>

The size of file data need to download through AT interface.

<name>

The name of the file to download.

<dir>

The directory of the selected file:

0 – current directory[[refer to AT+FSCD]

1 – "*C:/Picture*" directory

2 – "*C:/Video*" directory

3 – "*C:/VideoCall*" directory

4 – "*D:/Picture*" directory

5 – "*D:/Video*" directory

6 – "*D:/VideoCall*" directory

7 – "C:/Audio" directory

8 – "D:/Audio" directory

<filename>

The name of the file existing in the UE to download.

<max_pdu_size>

The maximum size of MMS PDU permitted.

Examples

AT+CMMSDOWN=?

+CMMSDOWN: "PIC",(1-102400),"NAME"

+CMMSDOWN: "TEXT",(1-102400),"NAME"

+CMMSDOWN: "AUDIO",(1-102400),"NAME"

+CMMSDOWN: "VIDEO",(1-102400),"NAME"

+CMMSDOWN: "FILE",(0-9),"FILEPATH"

+CMMSDOWN: "TITLE",(1-40)

OK

AT+CMMSDOWN="PIC",20112,"test1.jpg" <CR><LF>

>….(20112 bytes of data transferred in AT interface)

OK

AT+CMMSDOWN="FILE",2," test2.wav"
OK

3.6 AT+CMMSDELFILE Delete a file within the editing MMS body

Description

This command is used to delete a file within the editing MMS body.

Syntax

Test Command	Responses
AT+CMMSDELFILE=?	OK
Write Command	**Responses**
AT+CMMSDELFILE=<index>	OK ERROR +CME ERROR: <err>

Defined values

<index>
The index of the file to delete contains in the MMS body.

Examples

AT+CMMSDELFILE=2
OK
AT+CMMSDELFILE=?
OK

3.7 AT+CMMSSEND Start MMS sending

Description

This command is used to send MMS. It can only be performed in edit mode of MMS.

Syntax

Test Command	Responses

AT+CMMSSEND=?	+CMMSSEND=”ADDRESS” OK
Write Command	Responses
AT+CMMSSEND=<address> >	OK +CMMSSEND=0 ERROR +CME ERROR: <err> Or OK +CMMSSEND :<err>
Execute Command	Responses
AT+CMMSSEND	OK +CMMSSEND ERROR +CME ERROR: <err> Or OK +CMMSSEND :<err>

Defined values

<address>
Mobile phone number or email address

Examples

AT+CMMSSEND=”13613623116”
OK *+CMMSSEND=0*
AT+CMMSSEND
OK *+CMMSSEND=0*
AT+CMMSSEND=” 13613623116”
OK *+CME ERROR: 190*
AT+CMMSSEND=2,”13613623116”
+CME ERROR: 177

3.8 AT+CMMSRECP Add recipients

Description

This command is used to add recipients.

Syntax

Test Command	Responses
AT+CMMSRECP=?	+CMMSRECP: ”ADDRESS ” OK
Read Command	Responses
AT+CMMSRECP?	+CMMSRECP: (list of <addr>s) OK ERROR +CME ERROR: <err>
Write Command	Responses
AT+CMMSRECP=<addr>	+CMMSRECP: <addr> OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

```
AT+CMMSRECP=?
+CMMSRECP: "ADDRESS"
OK
AT+CMMSRECP?
+CMMSRECP:"t1@test.com”;”15813862534”
OK
AT+CMMSRECP=”13818362596"
OK
```

3.9 AT+CMMSCC Add copy-to recipients

Description

This command is used to add copy-to recipients.

Syntax

Test Command	Responses
AT+CMMSCC=?	+CMMSCC: ”ADDRESS” OK
Read Command	Responses
AT+CMMSCC?	+CMMSCC: (list of <addr>s) OK ERROR +CME ERROR: <err>
Write Command	Responses
AT+CMMSCC=<addr>	+CMMSCC: <addr> OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

AT+CMMSCC=?
+CMMSCC: "ADDRESS"   *OK*
AT+CMMSCC?
+CMMSCC:"t1@test.com”;”15813862534”   *OK*
AT+CMMSCC=”13818362596"
OK

3.10 AT+CMMSBCC Add secret recipients

Description

This command is used to add secret recipients.

Syntax

Test Command	Responses
AT+CMMSBCC=?	+CMMSBCC: ”ADDRESS ” OK
Read Command	Responses
AT+CMMSBCC?	+CMMSBCC: (list of <addr>s) OK ERROR +CME ERROR: <err>
Write Command	Responses
AT+CMMSBCC=<addr>	+CMMSBCC: <addr> OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

AT+CMMSBCC=?
+CMMSBCC: "ADDRESS"
OK
AT+CMMSBCC?
+CMMSBCC:"t1@test.com ";”15813862534”
OK
AT+CMMSBCC=”13818362596"
OK

3.11 AT+CMMSDELRECP Delete recipients

Description

This command is used to delete recipients. The execute command is used to delete all recipients

Syntax

Test Command	Responses
AT+CMMSDELRECP=?	+CMMSDELRECP: ”ADDRESS ” OK
Write Command	Responses

AT+CMMSDELRECP=<addr>	OK ERROR +CME ERROR: <err>
Execute Command	Responses
AT+CMMSDELRECP	OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

AT+CMMSDELRECP=?
+CMMSDELRECP: "ADDRESS" *OK*
AT+CMMSDELRECP(操作这个指令，模块灯亮，AT不通)
OK
AT+CMMSDELRECP=”13818362596"
OK

3.12 AT+CMMSDELCC Delete copy-to recipients

Description

This command is used to delete copy-to recipients. The execution command is used to delete all copy recipients

Syntax

Test Command	Responses
AT+CMMSDELCC=?	+CMMSDELCC: ”ADDRESS ” OK
Write Command	Responses
AT+CMMSDELCC=<addr>	OK ERROR +CME ERROR: <err>
Execute Command	Responses (模块重起，AT不通)
AT+CMMSDELCC	OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

AT+CMMSDELCC=?
+CMMSDELCC: "ADDRESS" *OK*
AT+CMMSDELCC
OK
AT+CMMSDELCC=”13818362596"
OK

3.13 AT+CMMSDELBCC Delete secret recipients

Description

This command is used to delete secret recipients. The execution command is used to delete all secret recipients

Syntax

Test Command	Responses
AT+CMMSDELBCC=?	+CMMSDELBCC: ”ADDRESS ” OK
Write Command	Responses
AT+CMMSDELBCC=<addr>	OK ERROR +CME ERROR: <err>
Execute Command	Responses (模块死机，AT不通)
AT+CMMSDELBCC	OK ERROR +CME ERROR: <err>

Defined values

<addr>
Mobile phone number or email address

Examples

AT+CMMSDELBCC=?

+CMMSDELRECP: "ADDRESS"
OK
AT+CMMSDELBCC
OK
AT+CMMSDELBCC=”13818362596"
OK

3.14 AT+CMMSRECV Receive MMS

Description

This command is used to receive MMS. It can only perform in non-edit mode of MMS

Syntax

Test Command	Responses
AT+CMMSRECV=?	+CMMSRECV=”LOCATION” OK
Write Command	Responses
AT+CMMSRECV=<location>	OK +CMMSRECV=0 ERROR +CME ERROR: <err> Or OK +CME ERROR :<err>

Defined values

<location>
Reported by +WAP_PUSH_MMS message

Examples

AT+CMMSRECV=” http://211.136.112.84/MI76xou_anB”
OK
+CMMSRECV=0
AT+CMMSRECV=” http://211.136.112.84/MI76xou_anB”
OK
+CME ERROR: 190
AT+CMMSRECV=3,” http://211.136.112.84/MI76xou_anB”
+CME ERROR: 177

3.15 AT+CMMSVIEW View information of MMS in box or memory

Description

This command is used to view information of MMS in box or memory. The title part of the MMS is formatted with UCS2 little endian character set.

Syntax

Test Command	Responses
AT+CMMSVIEW=?	+CMMSVIEW: (0,1) OK
Write Command	Responses
AT+CMMSVIEW=<index>	+CMMSVIEW:<mmstype>,"<sender>","<receipts>","<ccs>","<bccs>","<datetime>","<subject>",<size><CR><LF>list of <fileIndex, name, type, filesize><CR><LF> OK ERROR +CME ERROR: <err>
Execute Command	Responses
AT+CMMSVIEW	+CMMSVIEW:<mmstype>,"<sender>","<receipts>","<ccs>","<bccs>","<datetime>","<subject>",<size><CR><LF>list of <fileIndex, name, type,fileSize><CR><LF> OK ERROR +CME ERROR: <err>

Defined values

<index>
The MMS mail box index
<mmstype>
The state of MMS: 0 – Received MMS. 1 – Sent MMS. 2 – Unsent MMS.
<sender>
The address of sender
<receipts>
The list of receipts separated by ";"
<ccs>
The list of copy receipts separated by ";"
<bccs>

The list of secret receipts separated by ";"
<time>
The time to receive the MMS
<subject>
MMS title
<size>
MMS data size
<fileIndex>
The index of each file contained in the MMS body
<name>
The name of each file contained in the MMS body
<type>
The type of each file contained in the MMS body: -1 – unknown type. 2 – text. 3 – text/html. 4 – text/plain. 5 – image. 6 – image/gif. 7 – image/jpg. 8 – image/tif. 9 – image/png. 10 – audio/midi. 11 – audio/x-wav. 12 – audio /amr. 13 – audio /mpeg. 14 – video /mpc. 15 – video /mp4. 29 – application/sdp. 30 – application/smil.
<fileSize>
The size of each file contained in the MMS body

Examples

AT+CMMSVIEW=?
+CMMSVIEW: (0,1)
OK
AT+CMMSVIEW
+CMMSVIEW: 2,"",,,,"0000-00-00 00:00:00","dsidfisids",83867
0,"1.txt",4,10
1,"80.jpg",7,83794
OK

```
AT+CMMSVIEW=1
+CMMSVIEW:0,"",,,,"2009-03-10 10:06:12","my title",83867
0,"1.txt",4,10
1,"80.jpg",7,83794
OK
```

3.16 AT+CMMSREAD read the given file in MMS currently in memory

Description

This command is used to read a given file in MMS currently in memory. When reading a text file, it will be converted to UCS2 little endian before final UART output.

Syntax

Test Command	Responses
AT+CMMSREAD=?	OK
Write Command	**Responses**
AT+CMMSREAD=<index>	+CMMSREAD:<name>,<datSize> File Content OK ERROR +CME ERROR: <err>

Defined values

<index>
The index of the given file contained in the MMS body
<name>
The name of the given file contained in the MMS body
<datSize>
The size of the given file contained in the MMS body

Examples

```
AT+CMMSREAD=?
OK
AT+CMMSREAD=3
+CMMSREAD:"1.jpg",83794
…(File Content)

OK
```

3.17 AT+CMMSSNATCH snatch the given file in MMS

Description

This command is used to snatch the given file in MMS currently in memory, and save it to UE file system. If the file of input name already exists in the selected directory, it will fail.

Syntax

Test Command	Responses
AT+CMMSSNATCH=?	OK
Write Command	**Responses**
AT+CMMSSNATCH=<index>,<dir>,"<filename>"	OK ERROR +CME ERROR: <err>

Defined values

<index>
The index of the given file contained in the MMS body
<dir>
The directory of the selected file: 0 – current directory[[refer to AT+FSCD] 1 – "*C:/Picture*" directory 2 – "*C:/Video*" directory 3 – "*C:/VideoCall*" directory 4 – "*D:/Picture*" directory 5 – "*D:/Video*" directory 6 – "*D:/VideoCall*" directory 7 – "C:/Audio" directory 8 – "D:/Audio" directory
<filename>
The name of the given file contained in the MMS body

Examples

AT+CMMSSNATCH=?
OK
AT+CMMSSNATCH=3,2,"mylocalfile.jpg"
OK

3.18 AT+CMMSSAVE Save the MMS to a mail box

Description

This command is used to save the selected MMS into a mailbox.

Syntax

Test Command	Responses
AT+CMMSSAVE=?	+CMMSSAVE: (0-1),(0-2) OK
Write Command	**Responses**
AT+CMMSSAVE=<index>, <mmstype>	OK ERROR +CME ERROR: <err>
Execute Command	**Responses**
AT+CMMSSAVE	OK ERROR +CME ERROR: <err>

Defined values

<index>
The index of mail box selected to save the MMS
<mmstype>
The status of MMS: 0 – Received MMS. 1 – Sent MMS. 2 – Unsent MMS.

Examples

```
AT+CMMSSAVE=?
+CMMSSAVE: (0-1),(0-2)
OK
AT+CMMSSAVE
OK
AT+CMMSSAVE=1
OK
```

3.19 AT+CMMSDELETE Delete MMS in the mail box

Description

This command is used to delete MMS in the mailbox. The execute command is used to delete all MMS in the mailbox.

Syntax

Test Command	Responses
AT+CMMSDELETE=?	+CMMSDELETE: (0-1) OK
Write Command	Responses
AT+CMMSDELETE?	+CMMSDELETE: <mmsNum> OK ERROR +CME ERROR: <err>
Write Command	Responses
AT+CMMSDELETE=<index>	OK ERROR +CME ERROR: <err>
Execute Command	Responses
AT+CMMSDELETE	OK ERROR +CME ERROR: <err>

Defined values

<index>
The index of mail box selected to save the MMS
<mmsNum>
The number of MMS saved in the mail box

Examples

AT+CMMSDELETE=?
+CMMSSAVE: (0-1)
OK
AT+CMMSDELETE
OK
AT+CMMSDELETE=1
OK

3.20 AT+CMMSSYSSET Configure MMS transferring parameters

Description

This command is used to configure MMS transferring setting.

Syntax

Test Command	Responses
AT+CMMSSYSSET=?	+CMMSSYSSET: (10240-<max_pdu_size>),(512-4096),(512-4096),(1-<wap_send_buf_count>) OK
Write Command	Responses
AT+CMMSSYSSET?	+CMMSSYSSET: <max_pdu_size>,<wap_send_buf_size>,<wap_recv_buf_size>,<wap_send_buf_count> OK
Write Command	Responses
AT+CMMSSYSSET=<max_pdu_size>[,<wap_send_buf_size>[,<wap_recv_buf_size>[,<wap_send_buf_count>]]]	OK ERROR +CME ERROR: <err>

Defined values

< max_pdu_size >
The maximum MMS pdu size allowed by operator.
<wap_send_buf_size>
The length of WTP PDU for sending
<wap_recv_buf_size>
The length of WTP PDU for receiving
<wap_send_buf_count>
The count of buffers for WTP sending in group

Examples

AT+CMMSSYSSET=?
+CMMSSYSSET: (10240-102400),(512-4096),(512-4096),6 *OK*
AT+CMMSSYSSET?
+CMMSSYSSET:102400,1460,1500,6 *OK*
AT+CMMSSYSSET=102400,1430,1500,8
OK

AT+CMMSSYSSET=102400
OK

3.21 Supported Unsolicited Result Codes in MMS

Description

This section lists all the unsolicited result code in MMS module.

3.21.1 Indication of Sending/Receiving MMS

MMS Sending	Description
+CMMSSEND:<err>	This indication means the result of sending MMS. If successful, it reports +CMMSSEND:0, or else, it report +CMMSSEND:<err>
MMS Notification	Description
+WAP_PUSH_MMS:<sender>,<transaction_id>,<location>,<timestamp>,<class>,<size>	This indication means there is a new MMS received in the MMS center.
MMS Receiving	Description
+CMMSRECV:<err>	This indication means the result of receiving MMS. If successful, it reports +CMMSRECV:0, or else, it report +CMMSRECV:<err>

Defined values

< sender>
The sender address of the received MMS
<transaction_id>
The X-Mms-Transaction-ID of the received MMS
<location>
The X-Mms-Content-Location of the received MMS
<timestamp>
The timestamp of the WAP push message
<class>
The X-Mms-Class of the received MMS 0 – Expired 1 – Retrieved 2 – Rejected 3 – Deferred 4 – Unrecognized
<size>

The size of the received MMS

Examples

+WAP_PUSH_MMS
+WAP_PUSH_MMS: "15001844675","RROpJGJVyjeA","http://211.136.112.84/RROpJGJVyjeA" ,"09/03/17,17:14:41+32",0,13338

3.21.2 Summary of CME ERROR Codes for MMS

Code of <err>	Description
201	Unknown error for mms
171	MMS task is busy now
172	The mms data is over size
173	The operation is over time
174	There is no mms receiver
175	The storage for address is full
176	Not find the address
177	Invalid parameter
178	Failed to read mms
179	There is not a mms push message (reserved)
180	Memory error
181	Invalid file format
182	The mms storage is full
183	The box is empty
184	Failed to save mms
185	Busy editing mms now
186	Not allowed to edit now
187	No content in the buffer
188	Failed to receive mms
189	Invalid mms pdu
190	Network error
191	Failed to read file in UE

4 AT Commands Samples

4.1 MMS Commands

Set the parameters	Comments
AT+CMMSCURL=”mmsc.monternet.com” OK	Set the MMS center URL without “http://”
AT+CMMSPROTO=1,”10.0.0.172”,80 OK	Use http protocol to send MMS and set the IP address and port of MMS proxy to “10.0.0.172” and 80
AT+CMMSSENDCFG=6,3,0,0,2,4 OK	Set the parameter of MMS to send. This is unnecessary to set.
Send MMS	Comments
AT+CGSOCKCONT=1,”IP”,”cmwap” OK	Set the PDP context profile.
AT+CMMSEDIT=1 OK	Set the edit mode to 1.
AT+CMMSDOWN=”TITLE”,10 >Test title OK	Set the title of MMS to “Test title”.
AT+CMMSDOWN=”FILE”,3,” 1.jpg” OK	Add the “1.jpg” in UE to the MMS body.
AT+CMMSDOWN=”TEXT”,120,”t1.txt” >My test content….(file content, 120 bytes) OK	Add a text file named “t1.txt” with length of 120 bytes.
AT+CMMSRECP=”13918181818” OK	Add a recipient of “13918181818”
AT+CMMSRECP=”T1@TEST.COM” OK	Add a recipient of T1@TEST.COM
AT+CMMSCC=”15013231222” OK	Add a copy recipient of ”15013231222”
AT+CMMSSAVE=1 OK	Save the MMS to mail box of index 1.

AT+CMMSSEND=”13318882322” OK +CMMSSEND:0	Send the MMS including new recipient ”13318882322” After MMS is sent successfully, This command indicates success of sending. If failed, +CME ERROR:<err> will be reported.
Receive MMS	Description
+WAP_PUSH_MMS: "15001844675","RROpJGJVyjeA","http://211.136.112.84/RROpJGJVyjeA" ,"09/03/17,17:14:41+32",0,13338 AT+CGSOCKCONT=1,”IP”,”cmwap” OK AT+CMMSEDIT=0 OK AT+CMMSRECV="http://211.136.112.84/RROpJGJVyjeA" OK +CMMSRECV:0 AT+CMMSSAVE=0 OK	Receiving a new MMS notification. Set the PDP context profile. Set the mms edit mode to 0. Receive MMS using the location contained in +WAP_PUSH_MMS indication. After MMS is received successfully, this command indicates success of receiving. If failed, +CME ERROR:<err> will be reported. If receiving successfully, save it to mail box.

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