



SIM7500_SIM7600 Series SMTPS_AT Command Manual

LTE Module

SIMCom Wireless Solutions Limited

Building B, SIM Technology Building, No.633, Jinzhong Road
Changning District, Shanghai P.R. China

Tel: 86-21-31575100

support@simcom.com

www.simcom.com

Document Title: :	SIM7500_SIM7600 Series SMTPS_ AT Command Manual
Version:	2.00
Date:	2021.02.20
Status:	Released

GENERAL NOTES

SIMCOM OFFERS THIS INFORMATION AS A SERVICE TO ITS CUSTOMERS, TO SUPPORT APPLICATION AND ENGINEERING EFFORTS THAT USE THE PRODUCTS DESIGNED BY SIMCOM. THE INFORMATION PROVIDED IS BASED UPON REQUIREMENTS SPECIFICALLY PROVIDED TO SIMCOM BY THE CUSTOMERS. SIMCOM HAS NOT UNDERTAKEN ANY INDEPENDENT SEARCH FOR ADDITIONAL RELEVANT INFORMATION, INCLUDING ANY INFORMATION THAT MAY BE IN THE CUSTOMER'S POSSESSION. FURTHERMORE, SYSTEM VALIDATION OF THIS PRODUCT DESIGNED BY SIMCOM WITHIN A LARGER ELECTRONIC SYSTEM REMAINS THE RESPONSIBILITY OF THE CUSTOMER OR THE CUSTOMER'S SYSTEM INTEGRATOR. ALL SPECIFICATIONS SUPPLIED HEREIN ARE SUBJECT TO CHANGE.

COPYRIGHT

THIS DOCUMENT CONTAINS PROPRIETARY TECHNICAL INFORMATION WHICH IS THE PROPERTY OF SIMCOM WIRELESS SOLUTIONS LIMITED COPYING, TO OTHERS AND USING THIS DOCUMENT, ARE FORBIDDEN WITHOUT EXPRESS AUTHORITY BY SIMCOM. OFFENDERS ARE LIABLE TO THE PAYMENT OF INDEMNIFICATIONS. ALL RIGHTS RESERVED BY SIMCOM IN THE PROPRIETARY TECHNICAL INFORMATION , INCLUDING BUT NOT LIMITED TO REGISTRATION GRANTING OF A PATENT , A UTILITY MODEL OR DESIGN. ALL SPECIFICATION SUPPLIED HEREIN ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

SIMCom Wireless Solutions Limited

Building B, SIM Technology Building, No.633 Jinzhong Road, Changning District, Shanghai P.R. China

Tel: +86 21 31575100

Email: simcom@simcom.com

For more information, please visit:

<https://www.simcom.com/download/list-863-en.html>

For technical support, or to report documentation errors, please visit:

<https://www.simcom.com/ask/> or email to: support@simcom.com

Copyright © 2021 SIMCom Wireless Solutions Limited All Rights Reserved.

SIMCom
Confidential

About Document

Version History

Version	Date	Owner	What is new
2.00	2021.02.20	Ivning	Update the format

SIMCom
Confidential

Contents

About Document	4
Version History.....	4
Contents	5
AT Commands for SMTPS	6
1.1 Overview of AT Commands for SMTPS	6
1.2 Detailed Description of AT Commands for SMTPS.....	6
1.2.1 AT+CSMTPSSRV Set SMTP server address and port number.....	6
1.2.2 AT+CSMTPSAUTH SMTP server authentication.....	7
1.2.3 AT+CSMTPSFROM Sender address and name	9
1.2.4 AT+CSMTPSRCPT Recipient address and name (TO/CC/BCC)	10
1.2.5 AT+CSMTPSSUB E-mail subject	12
1.2.6 AT+CSMTPSBODY E-mail body	13
1.2.7 AT+CSMTPSBCH E-mail body character set.....	14
1.2.8 AT+CSMTPSFILE Select attachment.....	15
1.2.9 AT+CSMTPSSEND Initiate session and send e-mail.....	16
1.2.10 AT+CSMTPSSTOP Force to stop sending e-mail	17
1.2.11 AT+CSMTPSCLEAN Clean mail content and setting.....	17
1.3 Summary of result codes for SMTPS.....	17

AT Commands for SMTPS

1.1 Overview of AT Commands for SMTPS

Command	Description
AT+CSMTPSSRV	Set SMTP server address and port number
AT+CSMTPSAUTH	SMTP server authentication
AT+CSMTPSFROM	Sender address and name
AT+CSMTPSRCPT	Recipient address and name (TO/CC/BCC)
AT+CSMTPSSUB	E-mail subject
AT+CSMTPSBODY	E-mail body
AT+CSMTPSBCH	E-mail body character set
AT+CSMTPSFILE	Select attachment
AT+CSMTPSEND	Initiate session and send e-mail
AT+CSMTPSSTOP	Force to stop sending e-mail
AT+CSMTPSCLEAN	Clean mail content and setting

1.2 Detailed Description of AT Commands for SMTPS

1.2.1 AT+CSMTPSSRV Set SMTP server address and port number

This command is used to set SMTP server address and server's port number. SMTP client will initiate TCP session with the specified server to send an e-mail. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current SMTP server address and port number.

Execution command will clear SMTP server address and set the port number as default value.

AT+CSMTPSSRV Set SMTP server address and port number	
Test Command	Response
AT+CSMTPSSRV=?	OK
Read Command	Response
AT+CSMTPSSRV?	+CSMTPSSRV: <server>,<port>,<server_type>
	OK

Write Command AT+CSMTPSSRV=<server>,<port>[, <server_type>]	Response OK or ERROR
Execution Command AT+CSMTPSSRV	Response OK or ERROR
Parameter Saving Mode	-
Reference	

Defined Values

<server>	SMTP server address, non empty string with double quotes, mandatory and ASCII text string up to 127 characters.
<port>	Port number of SMTP server in decimal format, from 1 to 65535, and default port is 465 for SMTP.
<server_type>	The type of server: 1 – SMTP server. 2 – SMTPS server with SSL3.0/TLS1.0/TLS1.1/TLS1.2 supported 3 – SMTPS server with STARTTLS

Example

```
AT+CSMTPSSRV="smtp.server.com",425
OK
AT+CSMTPSSRV?
+CSMTPSSRV: "smtp.server.com",425,2
OK
AT+SMTPSRV
OK
AT+SMTPSRV?
+SMTPSRV: "",465,2
OK
```

1.2.2 AT+CSMTPSAUTH SMTP server authentication

This synchronous command is used to control SMTP authentication during connection with SMTP server. If

SMTP server requires authentication while logging in the server, TE must set the authentication control flag and provide user name and password correctly before sending an e-mail. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current SMTP server authentication control flag, if the flag is 0, both <user> and <pwd> are empty strings.

Execution Command clears user name and password.

AT+CSMTPSAUTH SMTP server authentication

Test Command AT+CSMTPSAUTH=?	Response +CSMTPSAUTH: (list of supported <flag>s) OK
Read Command AT+CSMTPSAUTH?	Response +CSMTPSAUTH: <flag>, <user>, <pwd> OK
Write Command AT+CSMTPSAUTH= <flag>[, <user>, <pwd>]	Response OK or ERROR
Execution Command AT+CSMTPSAUTH	Response OK or ERROR

Defined Values

<flag>	SMTP server authentication control flag, integer type. 0 – SMTP server doesn't require authentication, factory value. 1 – SMTP server requires authentication.
<user>	User name to be used for SMTP authentication, non empty string with double quotes and up to 127 characters.
<pwd>	Password to be used for SMTP authentication, string with double quotes and up to 127 characters. NOTE: If <flag> is 0, <user> and <pwd> must be omitted (i.e. only <flag> is present).

Example

AT+CSMTPSAUTH?

```
+CSMTPSAUTH: 0, "", ""
OK
AT+CSMTPSAUTH=1,"username","password"
"
OK
AT+CSMTPSAUTH?
+CSMTPSAUTH: 1, "username", "password"
OK
AT+CSMTPSAUTH
OK
AT+CSMTPSAUTH?
+CSMTPSAUTH: 0, "", ""
OK
```

1.2.3 AT+CSMTPSFROM Sender address and name

This synchronous command is used to set sender's address and name, which are used to construct e-mail header. The sender's address must be correct if the SMTP server requires, and if the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current sender's address and name.

Execution command will clear sender's address and name.

AT+CSMTPSFROM Sender address and name

Test Command	Response
AT+CSMTPSFROM=?	OK
Read Command	Response
AT+CSMTPSFROM?	+CSMTPSFROM: <saddr>, <sname> OK
Write Command	Response
AT+CSMTPSFROM= <saddr>[, <sname>]	OK or ERROR
Execution Command	Response
AT+CSMTPSFROM	OK or ERROR

Defined Values

<saddr>	E-mail sender address (MAIL FROM), non empty string with double quotes, mandatory and ASCII text up to 127 characters. <saddr> will be present in the header of the e-mail sent by SMTP client in the field: "From: ".
<sname>	E-mail sender name, string with double quotes, and alphanumeric ASCII text up to 63 characters. <sname> will be present in the header of the e-mail sent by SMTP client in the field: "From: ".

Example

```

AT+CSMTPSFROM="senderaddress@server.
com","sendername"
OK
AT+CSMTPSFROM?
+CSMTPSFROM:
"senderaddress@server.com","sendername
"
OK
AT+CSMTPSFROM
OK
AT+CSMTPSFROM?
+CSMTPSFROM: "", ""
OK

```

1.2.4 AT+CSMTPSRCPT Recipient address and name (TO/CC/BCC)

This synchronous command is used to set recipient address/name and kind (TO/CC/BCC). If only the parameter of "kind" is present, the command will clear all recipients of this kind, and if only parameters of "kind" and "index" are present, the command will clear the specified recipient. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current recipient address/name and kind list.

Execution command will clear all recipient information.

AT+CSMTPSRCPT Recipient address and name (TO/CC/BCC)	
Test Command AT+CSMTPSRCPT=?	Response +CSMTPSRCPT: (list of supported <kind>s), (list of supported <index>s) OK
Read Command AT+CSMTPSRCPT?	Response [+CSMTPSRCPT: <kind>, <index>, <raddr>, <rname> [<CR><LF>...]] OK

	or OK or ERROR
Write Command AT+CSMTPSRCPT=<kind>[,<index>[,<raddr>[,<rname>]]	Response OK or ERROR
Execution Command AT+CSMTPSRCPT	Response OK or ERROR

Defined Values

<kind>	Recipient kind, the kinds of TO and CC are used to construct e-mail header in the field: "To: " or "Cc: ". 0 – TO, normal recipient. 1 – CC, Carbon Copy recipient. 2 – BCC, Blind Carbon Copy recipient.
<index>	Index of the kind of recipient, decimal format, and from 0 to 4.
<raddr>	Recipient address, non empty string with double quotes, and up to 127 characters.
<rname>	Recipient name, string type with double quotes, and up to 63 characters.

Example

```
AT+CSMTPSRCPT=0,0,"rcptaddress_to@server.com", "rcptname_to"
OK
AT+CSMTPSRCPT?
+CSMTPSRCPT:
0,0,"rcptaddress_to@server.com","rcptname_to"
OK
AT+CSMTPSRCPT=1,0,"rcptaddress_cc@server.com", "rcptname_cc"
```

```
OK
AT+CSMTSPRCPT?
+CSMTSPRCPT:
0,0,"rcptaddress_to@server.com","rcptname_to"
+CSMTSPRCPT:
1,0,"rcptaddress_cc@server.com","rcptname_cc"
OK
```

1.2.5 AT+CSMTPSSUB E-mail subject

This synchronous command is used to set the subject of e-mail, which is used to construct e-mail header. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current e-mail subject.

Execution command will clear the subject.

AT+CSMTPSSUB E-mail subject

Test Command	Response
AT+CSMTPSSUB=?	OK
Read Command AT+CSMTPSSUB?	Response +SMTPSUB: <subject_len>,<subject_character><CR><LF> [<subject>] OK
Write Command AT+CSMTPSSUB=<subject_len>[,<subject_character>]	Response > OK or ERROR
Execution Command AT+CSMTPSSUB	Response OK or ERROR

Defined Values

<subject>	E-mail subject, string with double quotes, and ASCII text up to 511 characters. <subject> will be present in the header of the e-mail sent by SMTPS client in the field: "Subject: ". For write command, it can
------------------------	---

	input any binary data.
<subject_len>	The length of subject content
<subject_character>	The character set of subject. Default is utf-8.

Example

```

AT+CSMTPSSUB?
+CSMTPSSUB: 0,"UTF-8"
OK
AT+CSMTPSSUB=19, "utf-8"
>THIS IS A TEST MAIL
OK
AT+SMTTPSSUB?
+SMTTPSSUB: 19,"utf-8"
THIS IS A TEST MAIL
OK

```

1.2.6 AT+CSMTPSBODY E-mail body

This command is used to set e-mail body, which will be sent to SMTP server with text format. Read command returns current e-mail body. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly. Execution command clears email body.

AT+CSMTPSBODY E-mail body

Test Command	Response
AT+CSMTPSBODY=?	OK
Read Command	Response
AT+CSMTPSBODY?	+CSMTPSBODY: <body_len><CR><LF> [<body>] OK
Write Command	Response
AT+CSMTPSBODY=<body_len>	> OK
Execution Command	Response
AT+CSMTPSBODY	OK

Defined Values

<body>	E-mail body, up to 5120 characters.
<body_len>	The length of email body.

Example

```

AT+CSMTPSBODY=38
>THIS IS A TEST MAIL FROM SIMCOM
MODULE
OK
AT+CSMTPSBODY?
+CSMTPSBODY: 38
THIS IS A TEST MAIL FROM SIMCOM
MODULE
OK
  
```

1.2.7 AT+CSMTPSBCH E-mail body character set

This synchronous command is used to set the body character set of e-mail. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly. Read command returns current e-mail body character set.

AT+CSMTPSBCH E-mail body character set

Test Command	Response
AT+CSMTPSBCH=?	OK
Read Command	Response
AT+CSMTPSBCH?	+CSMTPSBCH: <charset> OK
Write Command	Response
AT+CSMTPSBCH=<charset> >	OK or ERROR
Execute Command	Response
AT+CSMTPSBCH	OK or ERROR

Defined Values

<charset>	E-mail body character, string with double quotes. By default, it is "utf-8". The maximum length is 19 bytes.
-----------	--

Example

```

AT+CSMTPSBCH=?
OK
  
```

AT+CSMTPSBCH="gb2312"

OK

AT+CSMTPSBCH?

+CSMTPSBCH: "gb2312"

OK

1.2.8 AT+CSMTPSFILE Select attachment

The synchronous command is used to select file as e-mail attachment. If the process of sending an e-mail is ongoing, the command will return "ERROR" directly.

Read command returns current all selected attachments with full path.

AT+CSMTPSFILE Select attachment

Test Command AT+CSMTPSFILE=?	Response +CSMTPSFILE: (list of supported <index>s) OK
Read Command AT+CSMTPSFILE?	Response [+CSMTPSFILE: <index>, <filename>, <filesize> [<CR><LF>...]] OK
Write Command AT+CSMTPSFILE=<index>[, <filename>]	Response OK or [+CSMTPS: <err>] ERROR
Execution Command AT+CSMTPSFILE	Response OK

Defined Values

<index>	Index for attachments, from 1 to 10. According to the sequence of <index>, SMTP client will encode and send all attachments.
<filename>	String type with double quotes, the name of a file which is under current directory (refer to file system commands). SMTP client doesn't allow two attachments with the same file name. For write command, if the file name contains non-ASCII characters, this parameter should contain a prefix of {non-ascii}.
<filesize>	File size in decimal format. The total size of all attachments can't exceed 10MB.

<err>	The error information.
-------	------------------------

Example

```

AT+CSMTPSFILE=1,"E:/file1.txt"
OK
AT+CSMTPSFILE=1,{non-ascii}"E6B58BE8A
F95E99984E4BBB62E6A7067"
OK
AT+CSMTPSFILE?
+CSMTPSFILE: 1,"E:/file1.txt"
OK
AT+CSMTPSFILE=2,"U:/ file2.txt "
OK
AT+CSMTPSFILE?
+CSMTPSFILE: 1, "E:/file1.txt"
+CSMTPSFILE: 2, "U:/file2.txt"
OK

```

1.2.9 AT+CSMTPSEND Initiate session and send e-mail

This asynchronous command is used to initiate TCP/SSL session with SMTP server and send an e-mail after all mandatory parameters have been set correctly.

AT+CSMTPSEND Initiate session and send e-mail

Test Command	Response
AT+CSMTPSEND=?	OK
Execution Command	Response
AT+CSMTPSEND	OK
	+CSMTPSEND: <err>
	or
	ERROR
	or
	+CSMTPSEND: <err>
	ERROR

Defined Values

<err>	The error information. 0 indicates success. Other values indicate failure.
-------	--

Example

AT+CSMTPSEND

OK

+CSMTPSEND: 0

1.2.10 AT+CSMTPSSTOP Force to stop sending e-mail

The synchronous command is used to force to stop sending e-mail and close the TCP/SSL session while sending an e-mail is ongoing. Otherwise, the command will return "ERROR" directly..

AT+CSMTPSSTOP Force to stop sending e-mail

Test Command	Response
AT+CSMTPSSTOP=?	OK
Execution Command	Response
AT+CSMTPSSTOP	OK
	or
	ERROR

Example

AT+CSMTPSSTOP

OK

1.2.11 AT+CSMTPSCLEAN Clean mail content and setting

The synchronous command is used to clean mail content and setting.

AT+CSMTPSCLEAN Clean mail content and setting

Example

AT+CSMTPSCLEAN

OK

1.3 Summary of result codes for SMTPS

Code of <errcode>	Meaning
0	SMTPS operation succeeded

600	Busy
601	Network error
602	Socket error
603	Over size
604	Duplicate file
605	Time out
606	Transfer failed
607	Memory error
608	Invalid parameter
609	EFS error
610	SMTP server error
611	Authentication failure
612	User cancel
655	Unknown error