

G510 SMTP Application Design Note

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Revision History

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Applicability table

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1 SMTP Commands

1.1 +GTSMTPLAND

This command used for setting mail server and port number .

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPLAND=<port>,<srv_Addr>[,<mode>]	OK or: ERROR	Set the SMTP server address, port number (SMTP port number: 25, SMTPS port number: 465), these settings cannot be saved if power is down, and it is assigned by the mail carrier. Wrong address may cause failed delivery. This command is indispensable.
Read	AT+GTSMTPLAND?	+GTSMTPLAND:<port>,<srv_Addr> e.g.+GTSMTPLAND:25,"mail.fibocom.com" OK Or +GTSMTPLAND:0	Return the server address and port number which have been configured. No content return +GTSMTPLAND: 0
Test	AT+GTSMTPLAND=?	+GTSMTPLAND:(1-65535),("SERVER ADDR")	Test the format and range of the server address and port number.

The following table shows +GTSMTPLAND parameter description:

<Parameter>	Description
<srv_Addr>	IP address of the SMTP server.
<port>	Port of the SMTP server
<mode>	blank: SMTP 1:SMTPS

Example:

```
AT+GTSMTPLAND=25,"MAIL.FIBOCOM.COM"
```

```
OK
```

```
AT+GTSMTPLAND?
```

```
+GTSMTPLAND:25,"MAIL.FIBOCOM.COM"
```

```
OK
```

```
AT+GTSMTPLAND=?
```

```
+GTSMTPLAND:(1-65535),("SERVER ADDR")
```

```
OK
```

1.2 +GTSMTPID

This command is used to set the user name and password, use to SMTP server authentication. The maximum length for user name is 80 bytes, and the maximum length for password is 80 bytes.

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPID=<user>,<pwd>	OK or: ERROR	Set user name and password, SMTP Settings are indispensable.
Read	AT+GTSMTPID?	+GTSMTPID:<user>,<*****> e.g.+GTSMTPID: "xiangj@fibocom.com", "*****" OK Or +GTSMTPID: 0	Return the user name and password that have been configured (confidential). No content return +GTSMTPID: 0.
Test	AT+GTSMTPID=?	+GTSMTPID:("username"),("password")	Test the format of this command.

The following table shows +GTSMTPID parameter description:

<Parameter>	Description
< user >	User name of mail box, supports 80 bytes at most .

< pwd >	Password of mail box, supports 80 bytes at most .
---------	---

Example:

```
AT+GTSMTPID="xiangj@fibocom.com","123456"
```

OK

```
AT+GTSMTPID?
```

```
+GTSMTPID: "xiangj@fibocom.com","*****"
```

OK

```
AT+GTSMTPID=?
```

```
+GTSMTPID: ("username"),("password")
```

OK

1.3 +GTSMTPDST

This command used for setting receiver's user name, the maximum length is 80 bytes, the number of user name can support 20 at most .

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPDST=<mode>,<type>,<dst_Addr>	OK or: ERROR:	Set send type, there should be at least one valid recipient user name when sending email
Read	AT+GTSMTPDST?	+GTSMTPDST:<type>,<dst_Addr> e.g.+GTSMTPDST: 1,"4066046889@qq.com" OK Or +GTSMTPDST:0	Return the user name and send type that have been configured, no content return +GTSMTPDST: 0.
Test	AT+GTSMTPDST=?	+GTSMTPDST:(0-1),(1-3),("receiver ID")	Test the format of this command.

The following table shows +GTSMTPDST parameters description:

<Parameter>	Description
<mode>	Adding modes: 0: delete a user name 1: add a user name
<type>	Sending modes: 1: send normally 2: copy 3: send secretly
<dst_Addr>	Receiver`s user name, supports 80 bytes at most .

Example:

```
AT+GTSMTPDST=1,1,"406604689@qq.com"
```

```
OK
```

```
AT+GTSMTPDST=1,2,"xiangj@fibocom.com"
```

```
OK
```

```
AT+GTSMTPDST=0,2,"xiangj@fibocom.com"
```

```
OK
```

```
AT+GTSMTPDST?
```

```
+GTSMTPDST:
```

```
1, 406604689@qq.com
```

```
OK
```

```
AT+GTSMTPDST=?
```

```
+GTSMTPDST:(0-1),(1-3),("receiver ID")
```

1.4 +GTSMTPEHEAD

This command used for setting the mail`s title, supports 200 bytes at most .

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPEHEAD= <Code>,<subject>	OK or:	Set the mail title and code. You can

		ERROR	leave this command.
Read	AT+GTSMPHEAD?	+GTSMPHEAD:<Code>,<subject> e.g.+GTSMPHEAD:2,"你好 SMTP" OK Or +GTSTPHEAD:0	Return the mail title and code that have been configured. No content return +GTSTPHEAD: 0.
Test	AT+GTSMPHEAD=?	+GTSMPHEAD:(0-3),("Title") OK	Test the format of this command.

The following table shows +GTSMPHEAD parameter description:

<Parameter>	Description
<Code >	Coding types : 0: ASC II 1: GIF 2: GB2312 3: BIG5
< subject >	The input title contents .

Example:

AT+GTSMPHEAD=2,"你好 SMTP"

OK

AT+GTSMPHEAD?

+GTSMPHEAD:2,"你好 SMTP"

OK

AT+GTSMPHEAD=?

+GTSMPHEAD:(0-3),("Title")

OK

1.5 +GTSMTSEND

This command is used to connect server. Before you send this command, please first send AT+MIPCALL=1,"CMNET", and make sure AT+GTSMTPLAND, AT+GTSMTPID and AT+GTSMTPDST are already been configured.

Commands	Syntax	Response	Remarks
Set	AT+GTSMTSEND=<time>	OK +GTSMTSEND: 2 Or ERROR Or +GTSMTSEND: 0	Establish connection with server, success return OK +GTSMTSEND:2 If failed or timed out, return ERROR, server disconnected returns +GTSMTSEND: 0
Read	AT+GTSMTSEND?	OK	Returns OK
Test	AT+GTSMTSEND=?	+GTSMTSEND:(100-48000) OK	Test the format of this command.

The following table shows +GTSMTSEND parameter description:.

<Parameter>	Description
<time>	The Maximum Time to send e-mail, the unit is second. The range is 100-48000 seconds.

Example:

AT+GTSMTSEND=300

OK

+GTSMTSEND: 2

AT+GTSMTSEND=?

+GTSMTSEND:(100-48000)

1.6 +GTSMTpdata

This command is used to mail from serial input text content. Set the command must be activated by using the command of AT +GTSMTpSEND operation, and returns GTSMTpSEND:2, in the process of sending emails can only enter once.

Suggestion: send data first, then send “+++” after 20 seconds, enable timeout mechanism. In the set range of the value, actively exit from data mode without sending any data. Send “AT&K3” to enable serial port flow control through ports. Send the data with 512 bytes and send data once two a second .

Commands	Syntax	Response	Remarks
Set	AT+GTSMTpdata= <time>[,<break_time >]	> +GTSMTpdata: <body_size> OK Or ERROR	Send the mail content to sever through the serial port. Send +++, the transmission is finished, If success, returns the content bytes that have been send out, if failed or timed out, returns ERROR, the maximum length is 20M.
Read	AT+GTSMTpdata?	OK	Returns OK.
Test	AT+GTSMTpdata= ?	+GTSMTpdata:(1-48000)[,(3 -20)] OK	Test the format of this command, parameter range.

The following table shows +GTSMTpdata parameter description:

<Parameter>	Description
<time>	The Maximum Time to input data, the unit is second. The range is 1-48000 seconds.
<break_time>	If you leave it blank, it doesn't exit from data mode itself. Set the value to “n”, it means no data transmission in “n” seconds, data mode is end, the range is 3~20 seconds.
<body_size>	The size of content which has been sent.

Example:

AT+GTSMTpdata=300

>

..... //Input the data

+++ //Input end with +++

AT+GTSMTpdata=?

+GTSMTpdata:(1-48000)[,(3-20)]

1.7 +GTSMTpFILE

This command used for sending mail's attachments through ports . It request to send "AT +GTSMTpSEND " successfully before sending commands , and return "GTSMTpSEND:2" . While sending "AT+ GTSMTpFILE" , the "AT+GTSMTpdata" cannot be sent .

Suggestion: send data first, then send "+++" after 20 seconds, enable timeout mechanism. In the set range of the value, actively exit from data mode without sending any data. Send "AT&K3" to enable serial port flow control through ports. Send the data with 512 bytes and send data once two a second .

Commands	Syntax	Response	Remarks
Set	AT+GTSMTpFILE=<mode>,<file_name>[,<break_time>]	> +GTSMTpFILE:<file size> OK Or ERROR	Send the mail content to server by serial port. Send +++, the transmission is finished, If success, returns the content bytes that have been send out, if failed or timed out, returns ERROR.
Read	AT+GTSMTpFILE?	+GTSMTpFILE:<file name> e.g.+GTSMTpFILE:"300k.txt" + GTSMTpFILE:"1.txt" OK Or +GTSMTpFILE:0	Read the name of the attachments, no content return +GTSMTpFILE: 0.
Test	AT+GTSMTpFILE=?	+GTSMTpFILE:(0-1),("file name")[,(3-20)] OK	Test the format of this command, parameter range.

The following table shows +GTSMTPPDATA parameter description:

<Parameter>	Description
<mode>	The adding modes of the attached name : 0 delete a attached name 1 add a attached name
<file_name>	Send the name of attachments, the length of the name supports 80 bytes at most, and the number of the attachments supports 20 at most .
<file size>	The size of the sent attachments, the sum of all attachments supports 20M at most .
<break_time>	Not set and not exit data modes actively . Set as “n”, and not send data within n seconds, then finish the data mode. Range (3~20) .

Example:

```
AT+GTSMTPPFILE=1,"300k.txt"
```

```
>
```

```
..... //input the data of attachment
```

```
+++ //input end with +++
```

```
OK
```

```
AT+GTSMTPPFILE=1,"100k.txt"
```

```
>
```

```
..... //input the data of attachment
```

```
+++ //input end with +++
```

```
OK
```

```
AT+GTSMTPPFILE?
```

```
+GTSMTPPFILE:
```

```
300k.txt,100k.txt
```

```
OK
```

AT+GTSMTMPFILE=?

+GTSMTMPFILE:(0-1),("file name"),(3-20]

OK

1.8 +GTSMTPEND

This command is used to end e-mail input, and send out email. Before you send this command, please send AT+GTSMTPEND successfully, and return +GTSMTPSEND:2.

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPEND	OK +GTSMTPSEND: 1 Or ERROR	No Parameters. If it successfully send out the email, it returns OK +GTSMTPSEND: 1 If failed, returns ERROR
Read	AT+GTSMTPEND?	OK	Returns OK
Test	AT+GTSMTPEND=?	OK	Returns OK

Example:

AT+GTSMTPEND

OK

+GTSMTPSEND: 1 // the mail is sent successfully, and disconnected with the mail server .

1.9 +GTSMTPCLR

This command is used to initialize the SMTP command parameters.

Commands	Syntax	Response	Remarks
Set	AT+GTSMTPCLR	OK Or +ERROR	No parameters

Read	AT+GTSMTPLR	OK	Returns OK
Test	AT+GTSMTPLR	OK	Returns OK

Example:

AT+GTSMTPLR

OK

2 Summary of Error Codes

The detail about <err> is described in the following table.

<ERR>	Meaning
0	The socket is closed
1	Successfully send out the email
2	Establish the connection with email sever successfully
421	<domain> Service not available, closing transmission channel
450	Requested mail action not taken: mailbox unavailable
451	Requested action aborted: local error in processing
452	Requested action not taken: insufficient system storage
500	Syntax error, command unrecognized
501	Syntax error in parameters or arguments
502	Command not implemented
503	Bad sequence of commands
504	Command parameter not implemented
521	<domain> does not accept mail
530	Access denied
535	Authentication failed
550	Requested action not taken: mailbox unavailable
551	User not local; please try <forward-path>
552	Requested mail action aborted: exceeded storage allocation
553	Requested action not taken: mailbox name not allowed
554	Transaction failed

3 Case

It request execute the operation of AT+MIPCALL=1,"CMNET" successfully before sending mail commands.

```
at+mipcall=1,"cmnet"
```

```
OK
```

```
+MIPCALL: 10.44.221.130
```

```
at+gtsmtpland=25,"mail.fibocom.com" //set mail server address and ports .
```

```
OK
```

```
at+gtsmtpid="wangww@fibocom.com","ght64621178" //set the sender`s user name and password
```

```
OK
```

```
at+gtsmtpdst=1,1,"xiangj@fibocom.com" //set the receiver`s user name .
```

```
AT+GTSMTPEHEAD=2,"你好 smtp" //set the title of the mail
```

```
OK
```

```
at+gtsmtpsend=300 //continuous
```

```
OK
```

```
+GTSMTPSEND:2
```

```
AT+GTSMTPPDATA=300 //send the mail`s text content through ports, send "+++" to end .
```

```
>
```

```
+GTSMTPPDATA: 124
```

```
OK
```

```
at+gtsmtplib=1,"eee.wma" //send the attached content of mail, send "+++" to end .
```



>

+GTSMTPFIL: 4119927

OK

at+gtsmtpend //end the mail input .

OK

+GTSMTPSEND:1

At+gtsmtpclr //initial the parameters content of each command .

OK