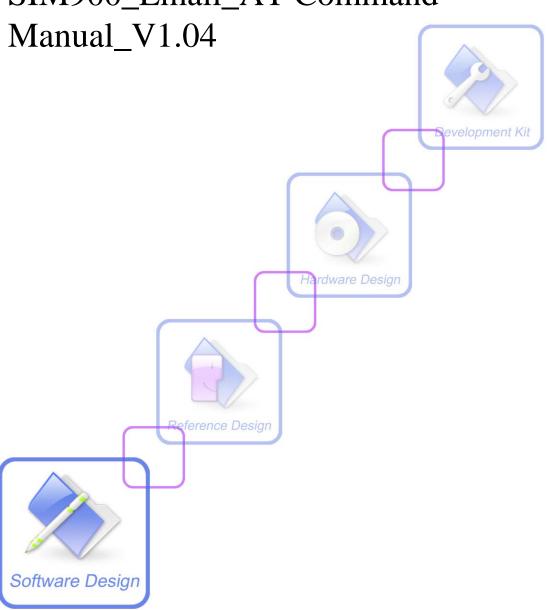


SIM900_Email_AT Command



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Version History

Version	Chapter	What is new
V1.00	Origin	
V1.01	2.9 AT+SMTPFILE	Added new command
	2.11 AT+SMTPFT	Added new command
V1.02	2.12 AT+SMTPCS	Added new command
V1.03	2.10 AT+SMTPSEND	Fixed a mistake of parameter description
V1.04	2.23 AT+EMAILSSL	Add new command



Contents

Ver	sion His	story	2
1	Introd	uction	4
	1.1	Features	4
	1.2	Reference	4
	1.3	Glossary	4
2	AT co	mmands	5
	2.1	AT+EMAILCID	5
	2.2	AT+EMAILTO	5
	2.3	AT+SMTPSRV	6
	2.4	AT+SMTPAUTH	7
	2.5	AT+SMTPFROM	8
	2.6	AT+SMTPRCPT	8
	2.7	AT+SMTPSUB	9
	2.8	AT+SMTPBODY	10
	2.9	AT+SMTPFILE	11
	2.10	AT+SMTPSEND	11
	2.11	AT+SMTPFT	12
	2.12	AT+SMTPCS	13
	2.13	AT+POP3SRV	14
	2.14	AT+POP3IN	15
	2.15	AT+POP3NUM	16
	2.16	AT+POP3LIST	17
	2.17	AT+POP3UIDL	18
	2.18	AT+POP3CMD	19
	2.19	AT+POP3READ	21
	2.20	AT+POP3DEL	22
	2.21	AT+POP3RSET	23
	2.22	AT+POP3OUT	24
	2.23	AT+EMAILSSL	24
3	Exam	oles	26
	3.1	Bearer profile	
	3.2	Send an Email	
	3.3	Send an Email with an attachment	
	3.4	Send a UTF-8 Email	
	3.5	Retrieve the Email	
	3.6	Delete the Email	
	3.7	Get the Email's size and unique-id	
	3.8	Send an Email with an attachment using SMTPS	
	3.9	Retrieve the Email using POP3S	



1 Introduction

This document presents the AT command of Email operation for SIM900. This document can apply to the same series of the modules which contain Email function, like SIM900, SIM900D, SIM900B and SIM900A.

1.1 Features

- 1. SIM900 supports to send an Email with an attachment via SMTP protocol. It also supports carbon copy (abbreviated Cc:) recipient and blind carbon copy (abbreviated Bcc:) recipient.
- 2. SIM900 supports to retrieve and delete the Email via POP3 protocol, the Email may be with attachments.
- 3. SIM900 supports all of POP3 commands but APOP. By these POP3 commands, you can get the specific Email's size and unique-id.
- 4. SIM900 does not support that SMTP and POP3 operations are executed at the same time.
- 5. SIM900 supports SMTPS and POP3S.

1.2 Reference

- [1] SIM900 AT Commands Set
- [2] SIM900_TCPIP_Application Note

1.3 Glossary

GPRS	General Packet Radio Service			
IP	Internet Protocol			
EMAIL	Electronic Mail			
SMTP	Simple Mail Transfer Protocol			
POP3	Post Office Protocol 3			
SSL	Secure Sockets Layer			
SMTPS	SMTP Over SSL			
POP3S	POP3 Over SSL			



2 AT commands

2.1 AT+EMAILCID

AT+EMAILCID	Set Email Bearer Profile Identifier			
Test Command	Response			
AT+EMAILCID=?	+EMAILCID: (range of supported <cid>s)</cid>			
	ОК			
	Parameters			
	See Write Command			
Read Command	Response			
AT+EMAILCID?	+EMAILCID: <cid></cid>			
	O.V.			
	OK			
	Parameters			
	See Write Command			
Write Command	Response			
AT+EMAILCID=				
<cid></cid>	OK			
	If error is related to ME functionality:			
	ERROR			
Parameters				
	<cid> bearer profile identifier refer to AT+SAPBR</cid>			
Reference	Note			

2.2 AT+EMAILTO

AT+EMAILTO	Set Timeout Value of SMTP/POP3 Server Response			
Test Command	Response			
AT+EMAILTO=?	+EMAILTO: (range of supported <timeout>s)</timeout>			
	OK			
	Parameter			
	See Write Command			
Read Command	Response			
AT+EMAILTO?	+EMAILTO: <timeout></timeout>			



	OK			
	Parameter			
	See Write Command			
Write Command	Response			
AT+EMAILTO=				
<timeout></timeout>	OK			
	If error is related to ME functionality:			
	ERROR			
	Parameter			
	<ti>ender <ti>en</ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti></ti>			
	second unit.			
	10-120 Default: 30(seconds)			
Reference	Note			

2.3 AT+SMTPSRV

AT+SMTPSRV	Set SMTP Server Address and Port			
Test Command	Response			
AT+SMTPSRV=?	+SMTPSRV: <smtpserverlength>,(range of supported <smtpport></smtpport></smtpserverlength>			
	OK			
	Parameter			
	See Write Command			
Read Command	Response			
AT+SMTPSRV?	+SMTPSRV: <smtpserver>,<smtpport></smtpport></smtpserver>			
	OK			
	Parameter			
	See Write Command			
Write Command	Response			
AT+SMTPSRV=				
<smtpserver></smtpserver>	OK			
[, <smtpport>]</smtpport>	If error is related to ME functionality:			
	ERROR Parameter			
	<pre><smtpserver></smtpserver></pre>			
	can be either:			
	- IP address in the format: xxx.xxx.xxx			
	- Host name to be solved with a DNS query			



	<smtpport> The SMTP port</smtpport>		
	1-65535 Default: 25		25
	<pre><smtpserverlength> The max length of <smtpserver></smtpserver></smtpserverlength></pre>		
Reference	Note		

2.4 AT+SMTPAUTH

AT+SMTPAUTH	Set User Name and Password for SMTP Authentication			
Test Command	Response			
AT+SMTPAUTH=?	+SMTPAUTH: (range of supported <authtype>s),<usernamelengt-< th=""></usernamelengt-<></authtype>			
	h>, <passwordlength></passwordlength>			
	OK			
	Parameter			
	See Write Command			
Read Command	Response			
AT+SMTPAUTH?	+SMTPAUTH: <authtype>,<username>,<password></password></username></authtype>			
	ОК			
	Parameter			
	See Write Command			
Write Command	Response			
AT+SMTPAUTH=				
<authtype>[,<user< th=""><th colspan="3">OK</th></user<></authtype>	OK			
Name>, <password></password>	If error is related to ME functionality:			
]	ERROR			
	Parameter			
	<authtype> The type of SMTP authentication</authtype>			
	0 SMTP server does not request authentication.			
	<username> and <password> must not be given.</password></username>			
	1 SMTP server requests authentication			
	<username></username> The user name for SMTP authentication.			
	<pre><usernamelength> The max length of <username>.</username></usernamelength></pre>			
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<pre><passwordlength> The max length of <password>.</password></passwordlength></pre>			
Reference	Note			



2.5 AT+SMTPFROM

AT+SMTPFROM	Set Sender Address and Na	me		
Test Command AT+SMTPFROM= ?	Response +SMTPFROM: <senderaddresslength>,<sendernamelength></sendernamelength></senderaddresslength>			
	OK			
	Parameter			
	See Write Command			
Read Command	Response			
AT+SMTPFROM?	+SMTPFROM: <sendera< td=""><td>ddress>,<sendername></sendername></td></sendera<>	ddress>, <sendername></sendername>		
	OK			
	Parameter			
	See Write Command			
Write Command	Response			
AT+SMTPFROM=				
<senderaddress></senderaddress>	OK			
[, <sendername>]</sendername>		If error is related to ME functionality:		
	ERROR			
	Parameter			
	<senderaddress></senderaddress>	The Email sender address, string type.		
	<pre><senderaddresslength></senderaddresslength></pre>	The max length of <senderaddress></senderaddress>		
	<sendername></sendername>	The Email sender name, string type.		
	<sendernamelength></sendernamelength>	The max length of <sendername></sendername>		
Reference	Note			

2.6 AT+SMTPRCPT

AT+SMTPRCPT Set the Email Recipient(TO/CC/BCC) Address and Name				
Test Command	Response			
AT+SMTPRCPT=?	+SMTPRCPT: (range of supported <rcpttype>s),(range of supported</rcpttype>			
	<index>s),<rcptaddresslength>,<rcptnamelength></rcptnamelength></rcptaddresslength></index>			
	OK			
]	Parameter			
	See Write Command			



	Smart Wathing Smart Decision		
Read Command AT+SMTPRCPT?	Response [+SMTPRCPT: <rcpttype>,<index>,<rcptaddress>,<rcptname> [<cr><lf>+SMTPRCPT: <rcpttype>,<index>,<rcptaddress>, <rcptname>[]]] OK</rcptname></rcptaddress></index></rcpttype></lf></cr></rcptname></rcptaddress></index></rcpttype>		
	UK		
	Parameter		
	See Write Command		
Write Command AT+SMTPRCPT=	Response		
<rcpttype></rcpttype>	OK		
[, <index></index>	If error is related to ME functionality:		
[, <rcptaddress></rcptaddress>	ERROR		
[, <rcptname>]]]</rcptname>	Parameter		
	<pre><rcpttype> The type of recipient, the types of TO and CC are used to</rcpttype></pre>		
	<pre><rcptaddresslength> The max length of <rcptaddress>.</rcptaddress></rcptaddresslength></pre>		
	<pre><rcptnamelength> The max length of <rcptname>.</rcptname></rcptnamelength></pre>		
Reference	 Note If only <rcpttype> is given,it will delete all items of <rcpttype></rcpttype></rcpttype> If only <rcpttype> and <index> are given,it will delete the <index> item of <rcpttype>.</rcpttype></index></index></rcpttype> 		

2.7 AT+SMTPSUB

AT+SMTPSUB	Set the Email Subject
Test Command	Response
AT+SMTPSUB=?	+SMTPSUB: <subjectlength></subjectlength>
	OK
	Parameter
	See Write Command
D 10 1	
Read Command	Response
AT+SMTPSUB?	+SMTPSUB: <subject></subject>



	ОК	
	Parameter	
	See Write Command	
Write Command AT+SMTPSUB=	Response	
<subject></subject>	ок	
as a significant of the signific	If error is related to ME functionality:	
	ERROR	
	Parameter	
	<subject></subject> The Email subject, string type. It will be present in the	
	header of the Email sent by SMTP client in the field:	
	"Subject:".	
	<subjectlength></subjectlength> The max length of <subject></subject> .	
Reference	Note If the Email charset is not ASCII, <subject> must be in hexadecimal format.</subject>	

2.8 AT+SMTPBODY

AT+SMTPBODY	Set the Email Body
Test Command	Response
AT+SMTPBODY=?	+SMTPBODY: <bodylength></bodylength>
	OK
	Parameter
	See Write Command
F	D.
Execution Command	Response
AT+SMTPBODY=	
response ">",then	OK
type data as Email	If error is related to ME functionality:
body.tap CTRL+Z to	ERROR
save, tap ESC to	Parameter
cancel the operation	<bodylength></bodylength> The max length of Email body.
Reference	Note
	• If the Email charset is not ASCII, the body of Email must be in
	hexadecimal format.



2.9 AT+SMTPFILE

Set the Email Attachment		
Response +SMTPFILE: (range of <filetype>s),<filenamelength>,(range of <encodetype>s)</encodetype></filenamelength></filetype>		
ок		
Parameter		
See Write Command		
Response +SMTPFILE: <filetype>,<filename>,<encodetype></encodetype></filename></filetype>		
OK		
Parameter		
See Write Command		
Response		
OK		
If error is related to ME functionality:		
ERROR		
Parameter		
<filetype></filetype> The type of the Email attachment.		
0 no attachment		
1 attach a txt file		
2 attach a binary file (bmp, mp3, video)		
<pre><filename> The name of the Email attachment. <filenamelength> The max length of <filename>.</filename></filenamelength></filename></pre>		
<encodetype> Content-Transfer-Encoding used for attachment</encodetype>		
0 "7bit" means data all represented as short lines of US-ASCII		
data		
1 "base64" designed to represent arbitrary sequences of octets		
in a form that need not be humanly readable		
Note Note If a test file (effective a 1) is attached, concede terms around he 0.		
 If a txt file (<filetype>=1) is attached, <encodetype> must be 0.</encodetype></filetype> If a binary file (<filetype>=2) is attached, <encodetype> must be</encodetype></filetype> 		
1.		

2.10 AT+SMTPSEND



Test Command AT+SMTPSEND=?	Response	
	OK	
	Parameter	
Write Command AT+SMTPSEND	Response	
	OK	
	If error is re	lated to ME functionality:
	ERROR	
	If send succe	essfully or not, return:
	+SMTPSEN	ND: <code></code>
	Parameter	
	<code></code>	The result of sending Email.
	1	The Email has been sent successfully
	61	Network error
	62	DNS resolve error
	63	SMTP TCP connection error
	64	Timeout of SMTP server response
	65	SMTP server response error
	66	Not authentication
	67	Authentication failed. SMTP user name or password may
		be not right.
	68	Bad recipient
	_	SSL for SMTP:
	80	SSL insufficient resource
	81	TCP send timeout in SSL transmission process
	82	SSL handshake timeout
	83	SSL handshake error
	84	SSL alter error
Reference	Note	

2.11 AT+SMTPFT

AT+SMTPFT	Transfer the Email Attachment
Test Command	Response
AT+SMTPFT=?	
	OK
	Parameter
	See Write Command



Execution Command	Response	
AT+SMTPFT= <req< th=""><th colspan="2">When the URC below is reported, the attachment can be transferred:</th></req<>	When the URC below is reported, the attachment can be transferred:	
Length>	+SMTPFT: 1,<	maxLength>
	If <reqlength> is not 0 and send data successfully:</reqlength>	
	+SMTPFT: 2, <cnflength></cnflength>	
	•••••	//Input data
	ОК	
	If <reqlength></reqlength>	is not 0 and send data unsuccessfully:
	+SMTPFT: 2,<	cnfLength>
	•••••	//Input data
	ERROR	
	If <reqlength></reqlength>	is 0,it indicates that transferring the attachment have
	finished:	
	OK	
	If error is related	I to ME functionality:
	ERROR	
	If some error occur: +SMTPSEND: <code> Parameter</code>	
	<reqlength></reqlength>	Requested number of data bytes(0- <maxlength>) to</maxlength>
	- 0	be transmitted
	<cnflength></cnflength>	Confirmed number of data bytes to be transmitted
	<maxlength></maxlength>	The max length of data can be sent at a time. It depends
	G	on the network status.
	<code></code>	See AT+SMTPSEND
Reference	Note	
		> can not be greater than <maxlength>.</maxlength>
		MTPFT: 1, <maxlength>" is reported, then use</maxlength>
		FT= <reqlength> to send data.</reqlength>
	711 514111	2 2 dequenção to sona ana

2.12 AT+SMTPCS

AT+SMTPCS Set the Email Charset	
Test Command	Response
AT+SMTPCS=?	+SMTPCS: <charsetlength></charsetlength>
	OK



	Parameter See Write Command
Read Command AT+SMTPCS?	Response +SMTPCS: <charset> OK</charset>
	Parameter See Write Command
Write Command AT+SMTPCS= <charset></charset>	OK If error is related to ME functionality: ERROR
	Parameter <charset> The Email charset, string type. It shows which charset the subject and the body are encoded in. If <charset> is not ASCII but UTF-8 or other, the subject and the body must be in hexadecimal format (e.g. "TEST" should be converted to "54455354"). The default charset is ASCII. <charsetlength> The max length of <charset>.</charset></charsetlength></charset></charset>
Reference	Note

2.13 AT+POP3SRV

AT+POP3SRV	Set POP3 Server and Account
Test Command AT+POP3SRV=?	Response +POP3SRV: <pop3serverlength>,<usernamelength>,<password-length>,(range of supported <pop3port>s) OK</pop3port></password-length></usernamelength></pop3serverlength>
	Parameter See Write Command
Read Command AT+POP3SRV?	Response +POP3SRV: <pop3server>,<username>,<password>,<pop3port> OK</pop3port></password></username></pop3server>
	Parameter See Write Command



Write Command	Response	
AT+POP3SRV=		
<pop3server>,</pop3server>	OK	
<username>,</username>	If error is related to	ME functionality:
<pre><password></password></pre>	ERROR	
[, <pop3port>]</pop3port>	Parameter	
	<pop3server></pop3server>	POP3 server address, string type. This parameter can
		be either:
		- IP address in the format: xxx.xxx.xxx
		- Host name to be solved with a DNS query
	<username> T</username>	The user name to log in POP3 server, string type.
	<pre><password></password></pre>	The password to log in POP3 server, string type.
	<pop3port></pop3port>	The port of POP3 server.
	1-65535	Default: 110
	<pre><pop3serverlengt< pre=""></pop3serverlengt<></pre>	h> The max length of <pop3server>.</pop3server>
	<usernamelength< th=""><th>> The max length of <username>.</username></th></usernamelength<>	> The max length of <username>.</username>
	<pre><passwordlength></passwordlength></pre>	The max length of <password>.</password>
Reference	Note	

2.14 AT+POP3IN

AT+POP3IN	Log In POP	3 Server
Test Command	Response	
AT+POP3IN=?		
	OK	
	Parameter	
Execution Command	Response	
AT+POP3IN		
	OK	
	If error is re	elated to ME functionality:
	ERROR	
	If logging in	n POP3 server or not, return:
	+POP3IN:	<code></code>
	Parameter	
	<code></code>	The result of logging in POP3 server
	1	Log in POP3 server successfully
	61	Network error
	62	DNS resolve error
	63	POP3 tcp connection error
	64	Timeout of POP3 server response



65	POP3 server response error
66	POP3 server rejects to log in
67	Incorrect user name
68	Incorrect user name or password
If enabling	SSL for POP3:
80	SSL insufficient resource
81	TCP send timeout in SSL transmission process
82	SSL handshake timeout
83	SSL handshake error
84	SSL alter error
Note	
	66 67 68 If enabling 80 81 82 83

2.15 AT+POP3NUM

AT+POP3NUM	Get Email Number and Total Size	
Test Command AT+POP3NUM=?	Response	
	OK	
	Parameter	
Execution Command	Response	
AT+POP3NUM		
	OK	
	If error is related to ME functionality:	
	ERROR	
	If POP3 server issues a positive response:	
	+POP3NUM: 1, <totalnumber>,<totalsize></totalsize></totalnumber>	
	If POP3 server issues a negative response:	
	+POP3NUM: 0	
	If some error occur:	
	+POP3OUT: <code></code>	
	Parameter	
	<totalnumber> The Email number on the POP3 server, decimal</totalnumber>	
	format.	
	<totalsize></totalsize> The total size of all Email and the unit is in byte.	
	<code> The result of logging out POP3 server</code>	
	1 Normally log out POP3 server	
	61 Network error	
	62 DNS resolve error	
	63 POP3 tcp connection error	
	64 Timeout of POP3 server response	



	If enabling SSL for POP3:	
	80	SSL insufficient resource
	81	TCP send timeout in SSL transmission process
	82	SSL handshake timeout
	83	SSL handshake error
	84	SSL alter error
Reference	Note	

2.16 AT+POP3LIST

AT+POP3LIST	Get the Sp	pecific Email Size		
Test Command	Response			
AT+POP3LIST=?	+ POP3LIST: (range of supported <msgnumber></msgnumber> s)			
	OW	A		
	OK			
	Parameter			
	See write	Command		
Write Command	Response			
AT+POP3LIST=				
<msgnumber></msgnumber>	OK			
		related to ME functionality:		
	ERROR			
		erver issues a positive response:		
		ST: 1, <msgnumber>,<size></size></msgnumber>		
		If POP3 server issues a negative response:		
		+POP3LIST: 0		
		If some error occur:		
		+POP3OUT: <code></code>		
	Parameter			
	<msgnun< th=""><th></th></msgnun<>			
	<size></size>	The size of Email <msgnumber> and the unit is in byte.</msgnumber>		
	<code></code>	The result of logging out POP3 server		
	61	Normally log out POP3 server Network error		
	62	DNS resolve error		
	63	POP3 tep connection error		
	64	Timeout of POP3 server response		
		ng SSL for POP3:		
	80	SSL insufficient resource		
	81	TCP send timeout in SSL transmission process		
	82	SSL handshake timeout		



	83 84	SSL handshake error SSL alter error
Reference	Note	

2.17 AT+POP3UIDL

AT+POP3UIDL	Get the Specific Email Unique-id		
Test Command	Response		
AT+POP3UIDL=?	+POP3UIDL: (range of supported <msgnumber></msgnumber> s)		
	OK		
	Parameter		
	See Write Command		
Write Command	Response		
AT+POP3UIDL=			
<msgnumber></msgnumber>	OK		
	If error is related to ME functionality:		
	ERROR		
	If POP3 server issues a positive response:		
	+POP3UIDL: 1, <msgnumber>,<uid></uid></msgnumber>		
	If POP3 server issues a negative response:		
	+POP3UIDL: 0		
	If some error occur:		
	+POP3OUT: <code></code>		
	Downworton		
	Parameter <msgnumber> The message number of Email .</msgnumber>		
	VIID> The Email unique-id, the unique-id is an arbitrary		
	server-determined string, consisting of 1 to 70 characters in		
	the range 0x21 to 0x7E, which uniquely identifies a message		
	within a maildrop and which persists across sessions.		
	<code> The result of logging out POP3 server</code>		
	1 Normally log out POP3 server		
	61 Network error		
	62 DNS resolve error		
	63 POP3 tcp connection error		
	64 Timeout of POP3 server response		
	If enabling SSL for POP3:		
	80 SSL insufficient resource		
	81 TCP send timeout in SSL transmission process		
	82 SSL handshake timeout		



	83 84	SSL handshake error SSL alter error
Reference	Note	

2.18 AT+POP3CMD

AT+POP3CMD	Get Multi-line Response	
Test Command AT+POP3CMD=?	Response +POP3CMD: (range of supported <cmdtype>s),(range of supported d<msgnumber>s),(range of supported lineNumber>s) OK</msgnumber></cmdtype>	
	Parameter	
	See Write Command	
Write Command AT+POP3CMD=	Response	
<cmdtype></cmdtype>	OK	
[, <msgnumber></msgnumber>	If error is related to ME functionality:	
[,lineNumber]]	ERROR	
	If POP3 server issues a positive response:	
	+POP3CMD: 1	
	If POP3 server issues a negative response:	
	+POP3CMD: 0	
	If some error occur: +POP3OUT: <code></code>	
	Parameter	
	cmdType> The values that supported POP3 user command	
	1 List command	
	The "List" command returns a multi-line "scan listing". For each message on the maildrop list of the server the POP3 service returns a line containing the message number and its size in bytes. A final "dotline" will be printed at the end of the "scan listing". If there are no messages on the maildrop list of the server, the POP3 service returns a positive response, i.e. It does not issue an error response, but the "scan listing" will be empty. In either case, each scan listing will be finished by so-called "dotline", i.e. a new line with just a single dot. <msgnumber> and a new line with just a single dot. <msgnumber> and a new line with just a single dot. <msgnumber> and returns a multi-line "unique-id Listing". For each message on the maildrop list of the Server the POP3 service returns a line containing the</msgnumber></msgnumber></msgnumber>	



message number and its unique-id. A final "dotline" will be printed at the end of the "unique-id listing" If there are no messages on the maildrop list of the server. The POP3 service returns a positive response, i.e. It does not issue an error response, but the "unique-id listing" will be empty. In either case, each unique-id listing will be finished by so-called "dotline", i.e.a new line with just a singledot. <msgNumber> and lineNumber> must not be given.

3 Top command

The command retrieves the number of lines of the message's body from the POP3 server's maildrop list. The POP3 server sends the headers of the message, the blank line separating the headers from the body, and then the number of lines of the message's body. If the number of lines requested by The POP3 client is greater than the number of lines in the body, then the POP3 server sends the entire message. If no such message exists on the server the POP3 service issues an error response to the Each email will be finished by a so-called "dotline", i.e.a new line. with a single iust dot. <msgNumber> and lineNumber> must be given.

4 Retrieve command

The command retrieves the related message from the POP3 server's maildrop list. If no such message exists on the server the POP3 service issues an error response to the user. Each email will be finished by a so-called "dotline", i.e. a new line with just a single dot. <msgNumber> must be given.

<msgNumber> The message number of Email.

IneNumber> The number of lines of the message body.

<code> The result of logging out POP3 server

- 1 Normally log out POP3 server
- 61 Network error
- 62 DNS resolve error
- 63 POP3 tcp connection error
- 64 Timeout of POP3 server response

If enabling SSL for POP3:

- 80 SSL insufficient resource
- TCP send timeout in SSL transmission process
- 82 SSL handshake timeout
- 83 SSL handshake error
- 84 SSL alter error



Reference	Note	
	•	After sending these POP3 commands and POP3 server issuing a
		positive response, you can get the response by AT+POP3READ.

2.19 AT+POP3READ

AT+POP3READ	Read Multi-line Response		
Test Command	Response		
AT+POP3READ=?	+POP3READ: (range of supported <reqlength>s)</reqlength>		
	OK		
	Parameter		
	See Write Command		
Write Command	Response		
AT+POP3READ=	If the data of response not to be read completely:		
<reqlength></reqlength>	+POP3READ: 1, <cnflength></cnflength>		
	If the data of response to be read completely:		
	+POP3READ: 2, <cnflength></cnflength>		
	If some data need to be read,the URC below is reported:		
	+POP3READ: 3, <datalength></datalength>		
	If error is related to ME functionality:		
	ERROR		
	If some error occur:		
	+POP3OUT: <code></code>		
	Parameter		
	<reqlength> Requested number of data bytes (1-1460) to be read</reqlength>		
	<cnflength></cnflength> Confirmed number of data bytes to be read, which may		
	be less than <reqlength>. 0 indicates that no data can be</reqlength>		
	read.		
	<datalength> Received number of data bytes.</datalength>		
	<code></code> The result of logging out POP3 server		
	1 Normally log out POP3 server		
	61 Network error		
	62 DNS resolve error		
	63 POP3 tcp connection error		
	64 Timeout of POP3 server response		
	69 Read data timeout		
	If enabling SSL for POP3: 80 SSL insufficient resource		
	81 TCP send timeout in SSL transmission process		
	82 SSL handshake timeout		
	83 SSL handshake error		
	84 SSL alter error		
	0+ SSL and thu		



Reference	Note		
	• Other AT commands (but AT+POP3OUT) can not be executed		
	until the data of response are read completely.		
	• If <conflength> is less than <reqlength>, you should wait for a</reqlength></conflength>		
	URC "+POP3READ: 3, <datalength>" reported. Then you may</datalength>		
	continue to read data by AT+POP3READ.		
	• If the module has some unread data, the URC "+POP3READ:		
	3, <datalength>" is reported every once in a while. After so</datalength>		
	me time, these data are not still read, the module will quit th		
	e POP3 process.		

2.20 AT+POP3DEL

AT+POP3DEL	Mark the Specific Email to Delete			
Test Command AT+POP3DEL=?	Response +POP3DEL: (range of supported <msgnumber>s)</msgnumber>			
	OK Parameter			
	See Write Command			
Write Command AT+POP3DEL=	Response			
<msgnumber></msgnumber>	OK			
	If error is related to ME functionality:			
	ERROR			
	If POP3 server issues a positive response:			
	+POP3DEL: 1			
	If POP3 server issues a negative response:			
	+POP3DEL: 0			
	If some error occur: +POP3OUT: <code></code>			
	Parameter			
	<msgnumber> The message number of Email</msgnumber>			
	<code></code> The result of logging out POP3 server			
	1 Normally log out POP3 server			
	61 Network error			
	62 DNS resolve error			
	63 POP3 tcp connection error			
	64 Timeout of POP3 server response			
	If enabling SSL for POP3:			
	80 SSL insufficient resource			
	81 TCP send timeout in SSL transmission process			
	82 SSL handshake timeout			



	83 SSL handshake error 84 SSL alter error
Reference	Note ■ The POP3 server marks the Email as deleted. Any future reference to the message-number associated with the Email in a POP3 command generates an error. The POP3 server does not actually delete the Email until the POP3 client logs out POP3 server and closes the session normally.

2.21 AT+POP3RSET

AT+POP3RSET	Unmark tl	ne Emails that Be Marked as Deleted	
Test Command	Response		
AT+POP3RSET=?			
	OK		
	Parameter		
Execution Command	Response		
AT+POP3RSET			
	OK		
	If error is re	elated to ME functionality:	
	ERROR		
	If POP3 ser	ever issues a positive response:	
	+POP3RSET: 1 If POP3 server issues a negative response:		
	+POP3RE	ST: 0	
	If some erro	or occur:	
	+POP3OU	T: <code></code>	
	Parameter		
	<code></code>	The result of logging out POP3 server	
	1	Normally log out POP3 server	
	61	Network error	
	62	DNS resolve error	
	63	POP3 tcp connection error	
	64	Timeout of POP3 server response	
	If enabling	g SSL for POP3:	
	80	SSL insufficient resource	
	81	TCP send timeout in SSL transmission process	
	82	SSL handshake timeout	
	83	SSL handshake error	
	84	SSL alter error	
Reference	Note		



2.22 AT+POP3OUT

AT+POP3OUT	Log Out P	OP3 Server			
Test Command AT+POP3OUT=?	Response OK				
	Parameter				
	Parameter				
Execution Command	Response				
AT+POP3OUT					
	OK				
		related to ME functionality:			
	ERROR				
	_	If the process is completed, return:			
	+POP3OUT: <code></code>				
	Parameter	Parameter			
	<code></code>	The result of logging out POP3 server			
	1	Normally log out POP3 server			
	61	Network error			
	62	DNS resolve error			
	63	POP3 tcp connection error			
	64	Timeout of POP3 server response			
	If enablin	ng SSL for POP3:			
	80	SSL insufficient resource			
	81	TCP send timeout in SSL transmission process			
	82	SSL handshake timeout			
	83	SSL handshake error			
	84	SSL alter error			
Reference	Note				

2.23 AT+EMAILSSL

AT+EMAILSSL	Enable/Disable SSL For SMTP and POP3
Test Command	Response
AT+EMAILSSL=?	+EMAILSSL: (list of supported <mode></mode> s)
	OK
	Parameters
	See Write Command



Read Command AT+EMAILSSL?	Response +EMAILSSL: <mode> OK Parameters</mode>		
	See Write Command		
Write Command AT+EMAILSSL=< mode>	Response OK		
	If error is related to ME functionality: ERROR or +CME ERROR: <err></err>		
	Parameters <mode> Integer type.The <mode> is used to select whether to enable or disable SSL for SMTP and POP3. </mode></mode>		
Reference	Note		



3 Examples

SIM900 module provides some AT commands that achieve the following function.

- 1. Send an Email without attachment via SMTP protocol.
- 2. Retrieve and delete the Email via POP3 protocol.
- 3. Get the specific Email's information (size and unique-id).
- 4. Send an Email with attachment via SMTPS.
- 5. Retreive the Email via POP3S.

3.1 Bearer profile

Demonstration	Syntax	Expert Results
Configure bearer profile 1	AT+SAPBR=3,1,"Contype","GPRS"	OK
	AT+SAPBR=3,1,"APN","CMNET"	OK
To open a GPRS context.	AT+SAPBR=1,1	OK
To query the GPRS context	AT+SAPBR=2,1	+SAPBR:1,1,"10.89.193.1" OK
To close a GPRS context.	AT+SAPBR=0,1	OK
GPRS context is released by network		+SAPBR 1: DEACT

3.2 Send an Email

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK
Set sender address and name	AT+SMTPFROM="john@sim.com","john"	OK
Set the recipient(To:)	AT+SMTPRCPT=0,0,"john@sim.co	OK



	m","john"	
Set the recipient(Cc:)	AT+SMTPRCPT=1,0,"john@sim.co m","john"	OK
Set the recipient(Bcc:)	AT+SMTPRCPT=2,0,"john@sim.co m","john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY >This is a new Email	OK
Send the Email	AT+SMTPSEND	OK +SMTPSEND: 1

3.3 Send an Email with an attachment

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	ОК
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK
Set sender address and name	AT+SMTPFROM="john@sim.com","john"	ОК
Set the recipient (To:)	AT+SMTPRCPT=0,0,"john@sim.co m","john"	OK
Set the recipient (Cc:)	AT+SMTPRCPT=1,0,"john@sim.co m","john"	OK
Set the recipient (Bcc:)	AT+SMTPRCPT=2,0,"john@sim.co m","john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY >This is a new Email	OK
Set the attachment	AT+SMTPFILE=1,"test.txt",0	OK



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Send the Email	AT+SMTPSEND	OK
URC indicates that the attachment may be send.1360 is the max length of data which can be sent at a time. It depends on the network status.		+SMTPFT: 1,1360
SMTP client requests to send 100 bytes. Response will indicates that user must input 100 bytes for transferring now.	AT+SMTPFT=100	+SMTPFT: 2,100 //Input data OK
URC indicates that more data can be sent		+SMTPFT: 1,1360
The attachment has been transferred completely.	AT+SMTPFT=0	OK
URC indicates that the entire email has been send successfully		+SMTPSEND: 1

3.4 Send a UTF-8 Email

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set the mail charset	AT+SMTPCS="UTF-8"	OK
Set SMTP server address and port	AT+SMTPSRV="mail.sim.com",25	OK
Set user name and password	AT+SMTPAUTH=1,"john","123456"	OK
Set sender address and name	AT+SMTPFROM="john@sim.com","john"	OK
Set the recipient(To:)	AT+SMTPRCPT=0,0,"john@sim.co m","john"	OK
Set the recipient(Cc:)	AT+SMTPRCPT=1,0,"john@sim.co m","john"	OK
Set the recipient(Bcc:)	AT+SMTPRCPT=2,0,"john@sim.co m","john"	OK
Set the subject	AT+SMTPSUB="54455354"	OK



Set the body	AT+SMTPBODY	OK
	>546869732069732061206E6577204	
	56D61696C	
Send the Email	AT+SMTPSEND	OK
		+SMTPSEND: 1

3.5 Retrieve the Email

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	ОК
	AT+EMAILTO=30	ОК
Set POP3 server and account	AT+POP3SRV="mail.sim.com","joh n","123456",110	OK
Log in POP3 server	AT+POP3IN	OK
		+POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK
		+POP3NUM: 1,2,11124
Get the specific Email's size	AT+POP3LIST=1	OK
		+POP3LIST: 1,1,5556
Retrieve the specific Email	AT+POP3CMD=4,1	OK +POP3CMD: 1
Get the Email content	AT+POP3READ=1460	+POP3READ: 1,1460
Get the Eman content	AITI OI SKEAD-1400	+OK
		ОК
	AT+POP3READ=1460	+POP3READ: 1,1460
		+OK
		OK
The Email's content is read	AT+POP3READ=1460	+POP3READ: 2,1183



completely		+OK
		OK
Log out POP3 SERVER	AT+POP3OUT	OK
		+POP3OUT: 1

3.6 Delete the Email

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set POP3 server and account	AT+POP3SRV="mail.sim.com","joh	OK
	n","123456",110	
Log in POP3 server	AT+POP3IN	OK
		+POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK
		+POP3NUM: 1,2,11124
Mark the Email to delete	AT+POP3DEL=1	ОК
		+POP3DEL: 1
Log out POP3 SERVER	AT+POP3OUT	OK
		+POP3OUT: 1

3.7 Get the Email's size and unique-id

Demonstration	Syntax	Expert Results
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK



Set POP3 server and account	AT+POP3SRV="mail.sim.com","joh n","123456",110	OK
Log in POP3 server	AT+POP3IN	OK +POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK +POP3NUM: 1,2,35797
Get the specific Email's size	AT+POP3LIST=1	OK +POP3LIST: 1,1,16601
Get the specific Email's unique-id	AT+POP3UIDL=1	OK +POP3UIDL: 1,1, AAAFOpdC AAAv60+tksFqRqk3/6ogog+g
Log out POP3 SERVER	AT+POP3OUT	OK +POP3OUT: 1

3.8 Send an Email with an attachment using SMTPS

Demonstration	Syntax	Expert Results
Enable SSL for SMTP	AT+EMAILSSL=1	OK
Set parameters of Email	AT+EMAILCID=1 AT+EMAILTO=30	OK OK
Set SMTPS server address and port	AT+SMTPSRV="smtp.google.com", 465	ОК
Set user name and password	AT+SMTPAUTH=1,"mike","123456	OK
Set sender address and name	AT+SMTPFROM="mike@google.com" ,"mike"	OK
Set the recipient(To:)	AT+SMTPRCPT=0,0,"john@sim.co m","john"	OK
Set the recipient(Cc:)	AT+SMTPRCPT=1,0,"john@sim.co m","john"	OK



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Set the recipient(Bcc:)	AT+SMTPRCPT=2,0,"john@sim.co m","john"	OK
Set the subject	AT+SMTPSUB="Test"	OK
Set the body	AT+SMTPBODY >This is a new Email	OK
Set the attachment	AT+SMTPFILE=1,"test.txt",0	OK
Send the Email	AT+SMTPSEND	OK
URC indicates that the attachment may be send.1360 is the max length of data which can be sent at a time.It depends on the network status.		+SMTPFT: 1,1360
SMTPS client requests to send 100 bytes.Response will indicates that user must input 100 bytes for transferring now.		+SMTPFT: 2,100 //Input data OK
URC indicates that more data can be sent		+SMTPFT: 1,1360
The attachment has been transferred completely.	AT+SMTPFT=0	OK
URC indicates that the entire email has been send successfully		+SMTPSEND: 1

3.9 Retrieve the Email using POP3S

Demonstration	Syntax	Expert Results
Enable SSL for POP3	AT+EMAILSSL=1	OK
Set parameters of Email	AT+EMAILCID=1	OK
	AT+EMAILTO=30	OK
Set POP3S server and account	AT+POP3SRV="pop.google.com"," mike","123456",995	OK
Log in POP3S server	AT+POP3IN	OK +POP3IN: 1
Get Email number and total size	AT+POP3NUM	OK

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		+POP3NUM: 1,2,11124
Get the specific Email's size	AT+POP3LIST=1	OK +POP3LIST: 1,1,5556
Retrieve the specific Email	AT+POP3CMD=4,1	OK +POP3CMD: 1
Get the Email content	AT+POP3READ=1460	+POP3READ: 1,1460 +OK OK
	AT+POP3READ=1460	+POP3READ: 1,1460 +OK
The Email's content is read completely	AT+POP3READ=1460	+POP3READ: 2,1183 +OK
Log out POP3S SERVER	AT+POP3OUT	OK +POP3OUT: 1



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