



Technical Tip 14

SMS Comfort troubleshooting GSM log

An AT command is finished (with "OK" or "ERROR")

19/11/2007 Date	16:49:55 time	(2) (com port)	GSM GSM,	> direction < >	OK command or reply
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19/11/2007 16:49:55 (2) GSM > OK
19/11/2007 16:50:06 (2) GSM < AT+CSQ
19/11/2007 16:50:06 (2) GSM > +CSQ: 24,99
19/11/2007 16:50:06 (2) GSM > OK
19/11/2007 16:50:06 (2) GSM < AT+CMGL=0
19/11/2007 16:50:06 (2) GSM > OK
19/11/2007 16:50:06 (2) GSM < AT+CMGL=1
19/11/2007 16:50:06 (2) GSM > OK
19/11/2007 16:51:12 (2) GSM < AT&F (Set all current parameters to manufacturer defaults)

19/11/2007 16:51:12 (2) GSM > AT&F
19/11/2007 16:51:12 (2) GSM > OK
19/11/2007 16:51:12 (2) GSM < ATE0 (Enable command echo)
    [0] Echo mode off
    1 Echo mode on

19/11/2007 16:51:12 (2) GSM > ATE0
19/11/2007 16:51:12 (2) GSM > OK
19/11/2007 16:51:12 (2) GSM < ATI (Display product identification information)

19/11/2007 16:51:12 (2) GSM > SIEMENS
19/11/2007 16:51:12 (2) GSM > MC388
19/11/2007 16:51:12 (2) GSM > REVISION 03.12
    SIEMENS Product
    MC388 Type of product
    REVISION 03.12 software release

19/11/2007 16:51:12 (2) GSM > OK
19/11/2007 16:51:13 (2) GSM < AT+GSN (Request TA serial number identification(IMEI))
19/11/2007 16:51:13 (2) GSM > 350452411363947
    350452411363947 (IMEI of the telephone (International Mobile station Equipment Identity))

19/11/2007 16:51:13 (2) GSM > OK
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19/11/2007 16:51:13 (2) GSM < AT+CPMS="MT","MT","MT" (*Preferred SMS message storage*)

Memory to be used when listing, reading and deleting messages:

"MT" Sum of "SM" and "ME" storages

19/11/2007 16:51:13 (2) GSM > +CPMS: 25,45,25,45,25,45

The Mobile Equipment storage

"MT" is the sum of "ME" (= 25 locations) and "SM" (capacity varies with SIM card).

19/11/2007 16:51:13 (2) GSM > OK

19/11/2007 16:51:13 (2) GSM < AT+CPMS="SM","SM","SM" (*Preferred SMS message storage*)

Memory to be used when listing, reading and deleting messages:

"SM"(D) SIM message storage

19/11/2007 16:51:13 (2) GSM > +CPMS: 0,20,0,20,0,20

The Mobile Equipment storage

"SM" (capacity varies with SIM card).

19/11/2007 16:51:13 (2) GSM > OK

19/11/2007 16:51:13 (2) GSM < AT+CSQ (*Signal quality*)

19/11/2007 16:51:13 (2) GSM > +CSQ: 24,99

+CSQ: <rssi>,<ber> (*signal strength indication - rssi * 3,2=CSQ%*)

0 -113 dBm or less

1 -111 dBm

2..30 -109... -53 dBm

31 -51 dBm or greater

99 not known or not detectable

+CSQ: <rssi>,<ber> (*check the bit error rate there must be a call in progress to obtain realistic values.*)

99 not known or not detectable

19/11/2007 16:51:13 (2) GSM > OK

19/11/2007 16:51:13 (2) GSM < AT+CPIN? (*Enter PIN*)

19/11/2007 16:51:13 (2) GSM > +CPIN: READY

READY (*PIN has already been entered. No further entry needed.*)

SIM PIN (*ME is waiting for SIM PIN1.*)

SIM PUK (*ME is waiting for SIM PUK1 if PIN1 was disabled after three failed attempts to enter PIN1.*)

19/11/2007 16:51:13 (2) GSM > OK

19/11/2007 16:51:13 (2) GSM < AT+CSCA? (*SMS service centre address*)

19/11/2007 16:51:13 (2) GSM > +CSCA: "+32475161616",145

+32475161616 (*SMSC address*)

145 (*dialling string includes international access code character '+'*)

19/11/2007 16:51:13 (2) GSM > OK

19/11/2007 16:51:14 (2) GSM < AT^SCID (*SIM card identifier*)

19/11/2007 16:51:14 (2) GSM > ^SCID: 8932007505032127273

8932007505032127273 (*value shows the ID of the SIM card*)

19/11/2007 16:51:14 (2) GSM > OK

19/11/2007 16:51:14 (2) GSM < AT

19/11/2007 16:51:14 (2) GSM > OK

19/11/2007 16:51:14 (2) GSM < AT+CMGL=0 (*List SMS messages from preferred store*)

SMS reading commands

0 Received unread messages

1 Received read messages

19/11/2007 16:51:14 (2) GSM > OK

19/11/2007 16:51:14 (2) GSM < AT+CMGL=1 (*List SMS messages from preferred store*)

SMS reading commands

0 Received unread messages

1 Received read messages



19/11/2007 16:51:37 (2) GSM > OK
19/11/2007 16:51:47 (2) GSM < AT+CSQ
19/11/2007 16:51:47 (2) GSM > +CSQ: 24,99
19/11/2007 16:51:47 (2) GSM > OK
19/11/2007 16:51:48 (2) GSM < AT+CMGL=0
19/11/2007 16:51:48 (2) GSM > OK
19/11/2007 16:51:48 (2) GSM < AT+CMGL=1
19/11/2007 16:51:48 (2) GSM > OK
19/11/2007 16:51:59 (2) GSM < AT+CSQ
19/11/2007 16:52:32 (2) GSM > +CSQ: 24,99
19/11/2007 16:52:32 (2) GSM > OK
19/11/2007 16:52:32 (2) GSM < AT+CMGL=0
19/11/2007 16:52:32 (2) GSM > OK
19/11/2007 16:52:32 (2) GSM < AT+CMGL=1
19/11/2007 16:52:51 (2) GSM > OK

SMTP Mail to SMS

19/11/2007 16:52:53 Client 192.168.1.1 connected
19/11/2007 16:52:53 To client 220 ESMTP Server Ready.
19/11/2007 16:52:53 From client EHLO srv1.sonal.local
19/11/2007 16:52:53 To client 250-ESMTP srv1.sonal.local (192.168.1.1), pleased to meet you
19/11/2007 16:52:53 To client 250 AUTH LOGIN PLAIN
19/11/2007 16:52:53 From client MAIL FROM:<P.Sommers@sonal.be>
19/11/2007 16:52:53 To client 250 OK Sender "P.Sommers@sonal.be" is allowed
19/11/2007 16:52:53 From client RCPT TO:<+32477324847@sms.sonal>
19/11/2007 16:52:53 To client 250 OK Send to <32477324847@sms.sonal> is allowed
19/11/2007 16:52:53 From client DATA
19/11/2007 16:52:53 To client 354 Start mail input; end with <CRLF>.<CRLF>
19/11/2007 16:52:53 From client Content-class: urn:content-classes:message
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: quoted-printable
Subject:
X-MimeOLE: Produced By Microsoft Exchange V6.5
Date: Mon, 19 Nov 2007 16:52:58 +0100
Message-ID: <5F02E2331C5BED418B4FEEE88CDA5D1B41BA29@srv1.sonal.local>
X-MS-Has-Attach:
X-MS-TNEF-Correlator:
Thread-Index: AcgqxEF6tfGR7tjiSZC6qJNawe2+NA==
From: "Paul Somers" <P.Sommers@sonal.be>
To: "SMS PS" <+32477324847@sms.sonal>

test

.
19/11/2007 16:52:53 Client sent lastpart of data
19/11/2007 16:52:53 To client 250 OK
19/11/2007 16:52:53 From client QUIT
19/11/2007 16:52:53 Client QUIT
19/11/2007 16:52:53 To client 221 Thanks for using, have a nice day
19/11/2007 16:52:53 Client 192.168.1.1 disconnected

19/11/2007 16:52:54 (2) GSM < AT+CMGS=21 ([Send Message](#))
19/11/2007 16:52:54 (2) GSM >
19/11/2007 16:52:54 (2) GSM < **07912374151616F631000B912374374248F70000A707D029885E9ED301**
(Message in PDU)
19/11/2007 16:52:54 (2) GSM < □



19/11/2007 16:52:56 (2) GSM >
19/11/2007 16:52:56 (2) GSM > **+CMGS: 18** (*Sent to net Message from operator*)
19/11/2007 16:52:56 (2) **SMS message sent to net**
19/11/2007 16:52:56 (2) GSM > OK

SMTP Mail "SMS Send to net" notification

19/11/2007 16:52:56 < 220 srv1.sonal.local Microsoft ESMTP MAIL Service, Version: 6.0.3790.3959 ready at Mon, 19 Nov 2007 16:53:01 +0100
19/11/2007 16:52:56 SMTP client session connected
19/11/2007 16:52:56 SMTP client connected, sending helo
19/11/2007 16:52:56 > HELO 192.168.1.4
19/11/2007 16:52:56 < 250 srv1.sonal.local Hello [192.168.1.4]
19/11/2007 16:52:56 SMTP client sending mail
19/11/2007 16:52:56 > MAIL FROM:<smscomfort@sonal.be>
19/11/2007 16:52:56 < 250 2.1.0 smscomfort@sonal.be....Sender OK
19/11/2007 16:52:56 > RCPT TO:<P.Sommers@sonal.be>
19/11/2007 16:52:56 < 250 2.1.5 P.Sommers@sonal.be
19/11/2007 16:52:56 > DATA
19/11/2007 16:52:56 < 354 Start mail input; end with <CRLF>.<CRLF>
19/11/2007 16:52:56 > From: "Sms Comfort notification" <smscomfort@sonal.be>
19/11/2007 16:52:56 > To: "Paul Somers" <P.Sommers@sonal.be>
19/11/2007 16:52:56 > Subject: Bericht aan 0477324877 is afgeleverd op het netwerk.
19/11/2007 16:52:56 > Sender: "Sms Comfort notification" <smscomfort@sonal.be>
19/11/2007 16:52:56 > Mime-Version: 1.0
19/11/2007 16:52:56 > Content-Type: text/plain; charset="iso-8859-1"
19/11/2007 16:52:56 > Date: Mon, 19 Nov 2007 16:52:56 +0100
19/11/2007 16:52:56 > Message-ID: <20071119155256550.64B067536A487113@SRV4>
19/11/2007 16:52:56 > X-Mailer: ICS SMTP Component V2.50
19/11/2007 16:52:56 > References: <5F02E2331C5BED418B4FEEEE88CDA5D1B41BA29@srv1.sonal.local>
19/11/2007 16:52:56 > In-Reply-To: <5F02E2331C5BED418B4FEEEE88CDA5D1B41BA29@srv1.sonal.local>
19/11/2007 16:52:56 >
19/11/2007 16:52:56 > Bericht aan 0477324877 is afgeleverd op het netwerk.
19/11/2007 16:52:56 > --- Oorspronkelijk bericht ---
19/11/2007 16:52:56 > test
19/11/2007 16:52:56 > .
19/11/2007 16:52:56 < 250 2.6.0 <20071119155256550.64B067536A487113@SRV4> Queued mail for delivery
19/11/2007 16:52:56 SMTP client mail sent
19/11/2007 16:52:56 > QUIT
19/11/2007 16:52:56 < 221 2.0.0 srv1.sonal.local Service closing transmission channel
19/11/2007 16:52:56 SMTP client session closed
19/11/2007 16:52:56 SMTP client disconnected
19/11/2007 16:52:56 SMTP client ready

19/11/2007 16:53:06 (2) GSM < AT+CSQ
19/11/2007 16:53:06 (2) GSM > +CSQ: 24,99



19/11/2007 16:53:19 (2) GSM < AT+CMGL=1
19/11/2007 16:53:19 (2) GSM > OK
19/11/2007 16:53:30 (2) GSM < AT+CSQ
19/11/2007 16:53:30 (2) GSM > +CSQ: 24,99
19/11/2007 16:53:30 (2) GSM > OK
19/11/2007 16:53:30 (2) GSM < **AT+CMGL=0** (*List SMS messages from preferred store*)
SMS reading commands
0 Received unread messages
1 Received read messages

19/11/2007 16:53:30 (2) GSM > **+CMGL: 1,0,,26**
19/11/2007 16:53:30 (2) GSM >
07912374151616F6040B912374374248F700007011916105334007CF35885E9ED301 (*Message in PDU*)
19/11/2007 16:53:30 (2) GSM > OK

SMTP Mail to SMS

19/11/2007 16:53:30 < 220 srv1.sonal.local Microsoft ESMTP MAIL Service, Version: 6.0.3790.3959 ready at Mon, 19 Nov 2007 16:53:35 +0100
19/11/2007 16:53:30 SMTP client session connected
19/11/2007 16:53:30 SMTP client connected, sending helo
19/11/2007 16:53:30 > HELO 192.168.1.4
19/11/2007 16:53:30 < 250 srv1.sonal.local Hello [192.168.1.4]
19/11/2007 16:53:30 SMTP client sending mail
19/11/2007 16:53:30 > MAIL FROM:<smscomfort@sonal.be>
19/11/2007 16:53:30 < 250 2.1.0 smscomfort@sonal.be....Sender OK
19/11/2007 16:53:30 > RCPT TO:<P.Sommers@sonal.be>
19/11/2007 16:53:30 < 250 2.1.5 P.Sommers@sonal.be
19/11/2007 16:53:30 > DATA
19/11/2007 16:53:30 < 354 Start mail input; end with <CRLF>.<CRLF>
19/11/2007 16:53:30 > From: "0477324877" <0477324877@SMS.SONAL>
19/11/2007 16:53:30 > To: "Paul Somers" <P.Sommers@sonal.be>
19/11/2007 16:53:30 > Subject: Ok test
19/11/2007 16:53:30 > Sender: "0477324877" <0477324877@SMS.SONAL>
19/11/2007 16:53:30 > Mime-Version: 1.0
19/11/2007 16:53:30 > Content-Type: text/plain; charset="iso-8859-1"
19/11/2007 16:53:30 > Date: Mon, 19 Nov 2007 16:50:00 +0100
19/11/2007 16:53:30 > Message-ID: <20071119155330649.38A209694F375C1B@SRV4>
19/11/2007 16:53:30 > X-Mailer: ICS SMTP Component V2.50
19/11/2007 16:53:30 >
19/11/2007 16:53:30 > Ok test
19/11/2007 16:53:30 > .
19/11/2007 16:53:30 (2) GSM < AT+CMGL=1
19/11/2007 16:53:30 < 250 2.6.0 <20071119155330649.38A209694F375C1B@SRV4> Queued mail for delivery
19/11/2007 16:53:30 SMTP client mail sent
19/11/2007 16:53:30 > QUIT
19/11/2007 16:53:30 < 221 2.0.0 srv1.sonal.local Service closing transmission channel
19/11/2007 16:53:30 SMTP client session closed
19/11/2007 16:53:30 SMTP client disconnected
19/11/2007 16:53:30 SMTP client ready
19/11/2007 16:53:30 (2) GSM > OK
19/11/2007 16:53:41 (2) GSM < AT+CSQ
19/11/2007 16:53:41 (2) GSM > +CSQ: 24,99