

CELLSTOP COMMANDS

Sales and Dealer Training Manual

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Introduction

The purpose of this Training Manual is to enable Agents and CellStop Staff (Admin and Sales) and Affiliates (such as Installation Workshops) to understand the CellStop commands that are available to the user to manipulate the unit to do what it is required to do.

The messages that are discussed in this manual were sorted in the most used to the least used and only include the most commonly used variables. There are many other variables that the unit will respond to when it is sent from the "00" user's telephone (or from any of the CellStop servers), however, these are mostly specific to the needs of a group of customers and not necessarily widely used. Staff will be trained separately for these specialized functions.

1. To query the status of the unit

STATUS

A5.4.05r7d3	-	Hardware and Firmware
Battery OK	-	Battery OK, Low or Dead
12.3v	-	Voltage measured from vehicle
GPS Locked	-	GPS Locked or Unlocked
Odo 24578km	-	Current GPS Odometer Reading
Ignition Off	-	Ignition ON or OFF
Trip 0km	-	The distance of the last trip
Speed 0k SSW	-	The current speed and direction
10h34 22/10/07	-	The date & time the message was sent
E018 26 5	-	Co-ordinates
S34 04 51	-	Co-ordinates

- This message is widely used by the installer upon installation to check whether that the unit functions correctly.
- The response of this message will immediately confirm that the GPS arial, the GSM arial, the power connection as well as the ignition wire had been connected correctly and that the firmware is in good working order. As a result, the installer can fit the unit without the necessity of working via a call centre.

2. An advanced way to test the status of the unit including the GPRS signal.

TEST

A5.4.05r7d3	-	Hardware and Firmware
Test Response	-	Message name
Battery OK	-	Battery OK, Low or Dead
12.3v	-	Voltage measured from vehicle
GPS Locked	-	GPS Locked or Unlocked
GPRS YES	-	GPRS Signal or not
Sig Ill..	-	Signal Strength out of 5 bars
Odo24578km	-	Current GPS Odometer Reading
Ignition Off	-	Ignition ON or OFF
10:h37 22/10/07-		The date & time the message was sent

- This message is widely used when the unit had been fitted with a panic button.
- When the installer sends the TEST message to the unit, it replies with the message above and it stores the cell phone number in memory. If the installer presses the panic button, the unit sends a TEST response to the same number. Thus saving the installer SMS's.
- Once the unit is registered on the servers (process explained further down in this document) the TEST message will generate the same response, however, the feature involving the panic button is then disabled.

3. To set the odometer reading of the unit:

ODT,654987

- The unit measures and stores the distances travelled in meters and is thus accurate, it however, is configured and reports only in complete kilometer values as is shown above. This message will not render any response, the sender would have to request a STATUS or TEST to confirm that the unit stored the odometer reading.

4. To register the Administrator / Owner / "00" user on the unit:

Add,user,00,HENNIE,+27824299661

- When the unit receives this message, it registers the "00" user on the unit and initiates the registration process.
 - a. Keep in mind that this message can be sent from any cell phone since there would at this point not be any user registered on the unit and therefore the unit is ready for configuration.
- When the unit receives the message, it initiates the registration sequence.
 - b. The unit registers by SMS to the Global Server. (The number is hard-coded into its firmware).
 - c. It searches for the appropriate Regional Server and registers to it according to the country / network that it finds itself in when it goes live on the GSM network.
 - d. The Regional Server sends the default settings of a new unit to it by SMS. This includes which servers it will report to (Control, Monitoring, Recovery, Admin, WRU, HeartBeat).
 - e. Once the unit receives the configuration messages from the Regional server, it also sends a registration message to the Control server of which it received the number from the Regional server.
 - f. The Control server responds by sending the unit the default tracking configuration (whether it would be reporting via SMS or GPRS, the interval etc.) as well as the default configurations relating to Alarms, speed, LKL, RPM and odometer tracking.
 - The unit may have been pre-captured and setup, in which case it may even receive configuration for additional users, Zones, idling, harsh braking / acceleration, daily SMS report times etc.
 - g. The unit does not register via SMS to the other servers, the information reaches these servers by means of replicated information sent via the Internet from the Regional server.

5. The user will receive a text message from the unit that reads:

A5.2.05r8

You have been added as a user

NAME:HENNIE

LEVEL:00

Please REPLY with a 6 digit pincode

PIN,(pincode)

- a. The user's reply will typically read: (Where the example of "467924" will be replaced with his choice of numbers)

Pin,467924

- The PIN number has to be numeric and has to be six digits (no alpha characters, no brackets, spaces or other special characters)
 - b. The unit will respond once it has received the PIN message with:

Your PIN has been saved as 467924

- Once the unit had registers with the Regional server, the Regional server will send a text message to the number that sent the original "Add User" message to confirm that the unit has been registered and whether it has been allocated to a particular Client and / or fleet.
- Keep in mind that there can only be one "00" user on the unit. There can, however, be several other users on the unit.

6. To add a level "01" user:

Add,user,01,BENJI,+27823456789

- Keep in mind that while he can do many of the same queries on the unit, the "01" user cannot alter any configuration on the unit such as what the "00" one user can do. There can be several "01" users on the unit. This message can only be sent from the "00" user's number or from any of the servers it has been registered to.

7. To add Driver Tag users

Add,user,03,MARTIN,DS458RT458D8A51B

- This will add a TAG as a user to the unit and will only be effective if the unit has been fitted with a tag board and immobilisor. The number is taken from the bottom of the tag and is generally allocated to a driver by the owner of the fleet. If a tag number is incorrectly loaded it will have the effect that the vehicle will be immobilized since the number of the tag will not be recognised by the unit.

8. If the "00" user wishes to check the registered users on the unit, the following message is sent:

List,user

- The unit will respond with a list of names and numbers, the "00" user will be indicated with an asterisk (*).
- Keep in mind that only the "00" user can use this function, it will disregard the message when it is sent from a "01" user.

9. Should the "00" user wish to remove any user from the unit the following message is sent:

Del,user,+27823456789

- This will remove the user from the unit and from this point forward the user will not have any access to it.
- Keep in mind that only the "00" user can use this function, it will disregard the message when it is sent from a "01" user.

10. To query the location of the unit:

WRU

The unit will respond with a street address description of where the vehicle is.

Example:

PIERRE DEMO	-	Vehicle Name
Silverwood Cl	-	Street
86m FROM Steenberg Rd (M42)	-	Main Road
493m SW OF Westlake	-	Suburb / Town
Westlake	-	City / District
Western Cape	-	Province
Ign Off	-	Ign On or Off
Stationary	-	Speed and Direction

11. To query the location of the unit and receive a visual response:

VRU

- The unit will send the longitude and latitude to the server. The server will convert it to the location description – the same as in the WRU, but will also generate a MAP image which it will store on the server under an auto-generated name. The server then sms's the link to the user e.g. <http://www.cellstopsa.com/WRU/APVFE.wml>
- The images will be available for 24 hours before it expires.

12. To query the detail of the last trip (ignition on to ignition off)

Trip

An example of the response the user will receive:

A5.2.05r8	-	The hardware and firmware versions
Trip Report	-	Heading for the detail to follow
-Total 69926Km	-	The odometer reading
-Dist 14Km	-	The distance of the last trip (ign on to ign off)
-Time 0.16	-	Travel time in hours and minutes of the last trip
Speed Report	-	Heading for the detail to follow
-Max 88Km/h	-	The maximum speed in the last trip
Idle Report	-	Heading for the detail to follow
-Trip 0.01	-	Idle time in hours and minutes of the last trip
-Max 0.01	-	Max idle time (hours & min) of the last 24 hours
GPS 92%	-	The percentage GPS coverage on the last trip

13. To set up the daily report and the time that it should be sent at:

Reptime,20:00

- Will set the daily report to 8pm daily

(Example of a Daily Report)

Daily Report	-	Message Name
18h35 20/10/07	-	Date and Time
Dist 32km	-	Distance Traveled the last 24 hours
Trips 13	-	Amount of trip
ODO 2963Km	-	GPS Odometer
Time 1:14	-	Accumalative drive time Hours & Minutes
Idle 0.13	-	Accumalative idle time Hours & Minutes
Max Idle 0.01	-	Max Idle (Minutes) – After trigger time
Max Speed 84Km/h	-	Max speed for the day
SMS's 2	-	Amount of outbound SMS's from unit

a. Reptime,

- Will deactivate the daily reports

14. Other useful commands that the user may send the unit:

a. Service,123456

- This will put the unit into service mode and thus it will send no alarms

b. Stop,123456

- This message will cause the immobilizer board to start its sequence to immobilize the unit and will also send a message to the Control Centre

c. Reset,123456

- This will reset the unit to the normal state and it will thus be able to send alarms as normal and will mobilise the vehicle if it had been immobilised by the CellStop unit.

d. Hijack,123456

- This message will send a silent "Hijack" alarm to the Control Centre.

- **The messages above can all be sent from any cell phone as long as the PIN is correct, the message will be accepted and acted upon.**

15. The user can also configure the speed limit of the unit.

Spd,130

- The unit will be set to regard any speed over 130kmph as over speeding (Intelligent measuring).

16. WAYPOINTS on the unit:

The unit has the ability to store the co-ordinates of six locations together with a name for the location on the unit itself. When stored this way, the unit is able to respond directly to the user with the name of the location when queried instead of sending the co-ordinates to the server to resolve. This method saves on SMS's and time and keeps the description of the unit's location simple.

a. Adding waypoints:

Add,way,HOME,100

- This message will add a waypoint onto the unit in the first available place for it, will call it HOME and will deem anything within 100 meters from the point to be at the point. If the radius parameter is not specified, it will default to 50 meters.
- There is place for 6 Waypoints on the unit. When a waypoint on the unit exists and it is at the waypoint at the time that a WRU is requested from it, it will reply directly to the user instead of relaying the message to the server in order for the server to reply to the user.
- Once the unit has been configured with six waypoints, it will disregard any messages that attempt to configure new / additional waypoints. The only way a new waypoint can be added is if an existing one is deleted. The unit will then store the next new waypoint in the empty memory slot.

b. To query the unit about the waypoints that had been configured on it:

List,way

- The unit will reply to the user with a list of Way points and will indicate the different points with numbers. E.g. HOME=1, WORK=2 etc.

c. To delete a waypoint off the unit:

- The message has to specify which waypoint it is aiming to delete. This is done by specifying the number that was provided in the "List,way" response in the message that deletes the waypoint.

Del,way,1

- d. The memory slot of waypoint will now be empty and the next waypoint added will be stored in it. The maximum radius that the waypoint can be configured for is 999 meters.

For any queries, refer to the compiler of this document:

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