IRIDIUM FROM STRATOS
Mobile Originated (MO) SMS Instructions

Stratos' Iridium Mobile Originated SMS allows a user to *originate* an SMS message from an Iridium phone (up to 160 Characters), and send that message to another Iridium phone, an email address, or to a cellular phone (when available). Note that only 9505 Phones and 9522 LBTs will support SMS-MO **(9500s and 9500-based LBTs cannot be used for SMS-MO).**

In order for MO SMS to work you must:
1) Have your phone 'reflashed' with new software: 'LAC0307' (for 9505 Phones) and 'SAC0307' (for 9522 LBTs).
   - Without this software, the phone will not support SMS-MO.
   - To verify the software version on a 9505, enter *#91# on the keypad.
2) Use a SIM Card that is provisioned for SMS-MO.
   - Iridium added SMS-MO to all postpaid SIM card accounts on June 1, 2003.
3) Enter the SMS Service Center Number into your phone, which stores the number on your SIM card. You need to do this only once. This number MUST be entered in one of these two ways: 00881662900005 or +881662900005
4) To enter the Service Center Number:
   a) Press the 'Envelope' key
   b) Scroll to 'Message Settings'. Press OK.
   c) Scroll to 'Service Center'. Press OK.
   d) Enter 00881662900005 or +881662900005. Press OK.

Sending a MO SMS to Another Iridium Phone:
1) Press the 'Envelope' key
2) Scroll to 'Message Editor'. Press OK.
3) Compose a message using the phone keypad (see 9505 Users Guide for instructions). Press OK.
4) 'Send Message' appears. Press OK.
5) Enter destination number, preceded by 00 or +, then OK.
   Example: 00881631099999 OK or +881631099999 OK

Sending a MO SMS to a Cellular Phone
1) Press the 'Envelope' key
2) Scroll to 'Message Editor'. Press OK.
3) Compose a message using the phone keypad (see 9505 Users Guide for instructions). Press OK.
4) 'Send Message' appears. Press OK.
5) Enter destination number, preceded by 00 or +, then OK.
   Example: 00 or +, Country Code, Cellular Phone #, OK.

*   *Iridium is currently negotiating an agreement with a clearinghouse that will allow messages to be sent to cellular phones.*

Sending a MO SMS to an E-Mail Address
1) Press the 'Envelope' key
2) Scroll to 'Message Editor'. Press OK.
3) Compose a message using the phone keypad. Use the following format:

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- emailaddress@domain this is a test message
- Do not forget the space between the email address and the start of the text message
- To create the '@' character, press the '1' key seven times
- 160 characters max, including email address!

4) Press OK. 'Send Message' appears. Press OK.
5) Enter destination number as 00*2 or +*2 and press OK. This flags the message in the Iridium network as an email message space

Sending a MO SMS from a 9522 LBT

The LBT has no Keypad. Therefore you must use "AT Commands", through the phone's data port.
The AT commands use the standard GSM 'PDU' format. AT Commands are documented in the 'Iridium AT Command Reference' document.

Expiry Period

The Expiry Period determines how long the Iridium service center will attempt to deliver a message before deleting it.

- The default Expiry Period is 192 hours (8 days).
- The user can change the default Expiry Period as follows:
  - Press the 'Envelope' key
  - Scroll to 'Message Settings'. Press OK.
  - Scroll to 'Expiry Period'. Press OK.
  - Enter the Expiry Period (in hours), up to a maximum of 192.
- The phone will accept any value between 1 and 24 hours in increments of one hour. Over 24 hours, the phone will round down to the nearest multiple of 24 hours (1 day increments).
- If you enter 0 hours, the expiry period will be set in the system to the default period of 192 hours (8 days).

Replying to a Mobile Terminated (MT) SMS

A menu choice in the phone allows a user to 'Reply to Sender' of an SMS-MT message.

1) When viewing an SMS-MT message, 'View Options' appears.
2) Press OK and scroll to 'Reply to Sender'. Press OK again.
3) Compose your message. If you are responding to an email message, leave a space between the email address and the beginning of your message. Press OK.
4) 'Send Message' appears. Press OK.
   If available, the sender's phone number will automatically appear. If you are replying to an email, the standard email response number (00*2 or +*2) will appear.
5) Enter a number (if none is present) and press OK to send the message.

Basic Troubleshooting

Problem: "No Service Center" appears when trying to send.
Solution: The Service Center number needs to be programmed into the SIM card. See instructions earlier in this document.

Problem: "Message Failed" appears when trying to send.
Solution 1:   The Service Center number was entered incorrectly. Check to make sure it is either 00881662900005 or +881662900005
Solution 2:   Phone is not registered or is not in clear line of sight to sky.
Solution 3:   The SIM card is not provisioned for SMS-MO. Iridium has added SMS-MO capability to all postpaid SIMs. Prepaid and Crew Calling SIMs will have SMS-MO capability later in 2003.

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Problem: Message sent, but recipient did not get it.
Solution 1: Recipient phone # or email address entered incorrectly. Make sure phone number was entered as 00 or +, Country Code, Phone Number. Make sure email was entered with a space between the email address and the message.
Solution 2: Check expiry period. If recipient did not turn on their phone within the expiry period, message was deleted before delivery.

Problem: Flashing envelope on display.
Solution: There is a message waiting that cannot be retrieved and viewed because the SIM card contains the maximum number of messages (30). Delete one or more messages from the SIM card (press the envelope key and follow the menus.)

About Stratos

Stratos, with over a century of service, is the world's trusted leader for vital communications, offering the most powerful and extensive portfolio of remote communications products, including mobile and fixed satellite and microwave services. Stratos' more than 20,000 customers use our services on seven continents and across the world's oceans. Stratos serves US and international government, military, first responder, NGO, oil and gas, industrial, maritime, aeronautical, enterprise, and media users. For more information visit www.stratosglobal.com.

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