



Remote Terminal Manager

User Guide

Version 2.0

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1 Introduction

1.1 A Global Monitoring and Control Platform

The need to remotely monitor and control equipment through a satellite communication IP platform is becoming increasingly important. Instant access to location information and remote access to satellite terminal and connected equipment could be of essence.

Inmarsat has a solution in its portfolio called Remote Terminal Manager (RTM) that enables the NOC (Network Operation Center) of a company to remotely access the (unmanned) BGAN equipment and IP device(s) behind it.

This unique platform is a scalable, internet-based monitoring and control application that enables you to activate an IP session, close down/disconnect an IP session, provide information which IP devices' are online/offline, provide detailed information on signal strength, in which Inmarsat spot beam the BGAN is located and which firmware is being used by the BGAN device. If from the remote side a data connection is setup or disconnected Remote-IP can send out an email message to notify the NOC of the event. It also provides the latest position report for an individual site or all sites combined on one map/screen. It depends on the BGAN hardware and firmware which data you can pull out of the terminal.

In the paragraphs below a description is provided of the functionality offered via the RTM application. Please note that in order the use the RTM service for a particular terminal. The SIM of the terminal must be subscribed to RTM service via Inmarsat Solutions provisioning Dashboard.

2 Remote Terminal Functions

2.1 Basic Remote Terminal Manager functions

Network information

Based on the information retrieved from the Inmarsat network RTM provides the following overviews:

Retrieve connection status Get an immediate insight if a terminal is online and the

number of active data connections it has

Retrieve call history Get a historic overview of successful and failed data

connections

Get an overview of remote control commends sent to the

terminal and the associated reply

Report session failure details In case connections fail, RTM will show the reason for

failure

Alert Service

Connection alert RTM will allow an alert notification to be sent when a

data connection is started by the terminals or when it gets disconnected. The alert can be configured to be sent

to multiple destinations

Note: The above information and alert service is only available if one of the following APNs are used for the data connections:

• stratos.bgan.inmarsat.com

xantic.bgan.inmarsat.com

SMS

Free form SMS When needed a free form text message can be sent to

the terminal from within the RTM application

2.2 Remote Control functions

Data Connection control

The following options for data connection control are offered in RTM:

Wake up and stop data connection RTM allows for the remote activation of an IP or

streaming connection, ready to be used by remote

applications to exchange data.

able to remotely activate multiple PDP contexts

Automatic PDP context restart The RTM application can be configured to automatically

restart a PDP context if a connection fails

Wake up for specific UT device Depending on terminal capabilities, it is possible to

activate connection for specific devices connected to the

remote terminal

Advanced data connection control

Wake up for specific APN If terminal and SIM capabilities allow, connections can

be activated for specific APN's

Wake up with non-default profile When multiple profiles are created for the SIM, the

connection can be remotely activated using a specific

profile

Configure APN If the SIM allows multiple APNs to be used, the

preferred APN can be configured for use in RTM

Remote Terminal Control

Reboot From within the RTM application it is possible to instruct

the terminal to reboot itself. The RTM application will

report when the terminals is available again

Remote firmware upgrade For terminals that support remote firmware upgrade,

RTM provides the options to initiate a firmware upload

and activate the firmware once uploaded

Terminal Status and Information

Depending on the capability of the terminal, the RTM service provides functions to retrieve status information and geographic location from the terminal. The status information retrieved from the terminals may contain:

- Signal Level
- Spot beam information
- IP address of the terminal
- Firmware version
- · Serial number and IMSI
- Uptime
- GPS Location

GPS Position and Mapping services

If the terminal supports the retrieval of its geographical position, RTM will provide the following functions:

- Plot and present the last know position on a world map
- Provide a color indication to show if a terminal has an active data session
- Plot all terminals on a map in the terminal overview
- The option to automatically retrieve a position from the terminal when a new data connection is setup

Note: GPS position reporting is only available for SIMs that are activated on the Full RTM Subscription; for SIMs activated on the Basic RTM Subscription this information is not available.

3 Remote Terminal Manager support per terminal type

The below table lists the level of Remote Terminal Manager functionality supported by the different types of BGAN terminals. Below the table a short description is provided for each function category.

		Network Information	Connection Status Alerts	Send SMS	Data Connection Control	Advanced Data Connection Control	Terminal Status and Information	Remote Terminal Control	Geo- position and Mapping services
Manufacturer	Terminal(s)	Basic			Remote Control				
HNS	9201*, 9202*, 9450*	V	√	√	V	√	√	V	√
	9250, 9350	V	1	1					
	9502	√	1	1	√	√	1	1	√
Thrane & Thrane	Explorer 100/110	V	√	√					
	Explorer 300, 500, 700	V	√	√	V	V			
	Explorer 325, 527, 727	V	1	1	√	√			
Addvalue	Sabre 1 Remote	√	√	√	√	√			
	Sabre 1	V	√	√					
	Sabre Ranger	V	1	1	V	√			

Notes:

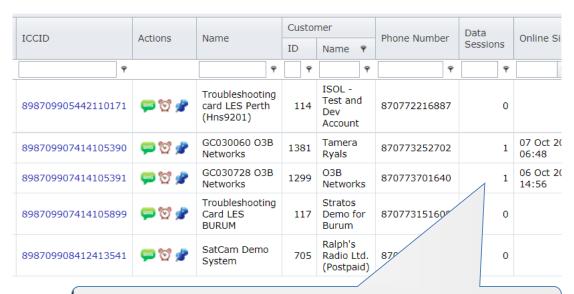
^{*}Remote control functions to be activated by PIN from HNS

^{**} Network and connect status available when the APNs of the legacy Stratos network are used

4 Getting started

Below paragraphs provide an introduction into the most used functions or RTM.

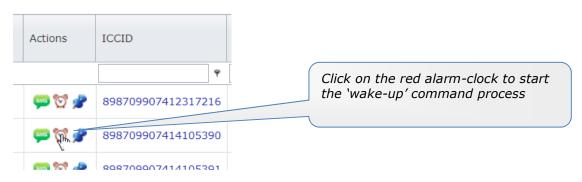
4.1 Is the BGAN terminal Online/off-line?



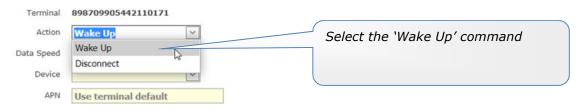
The '0' indicates that a SIM card does not have an active IP session The '1' indicates that the SIM has an active session

4.2 How to activate an IP session

Step1



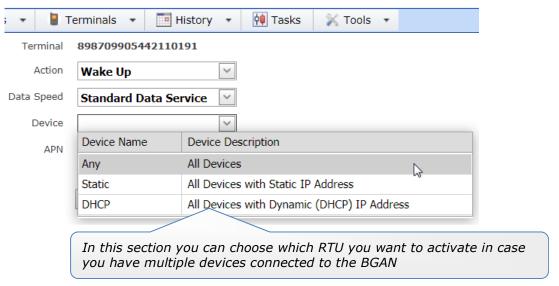
Step 2a



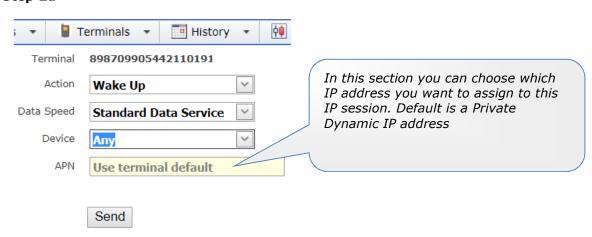
Step 2b



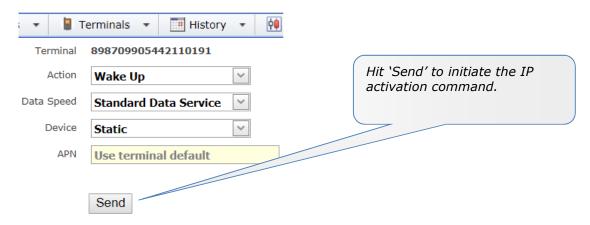
Step 2c



Step 2d



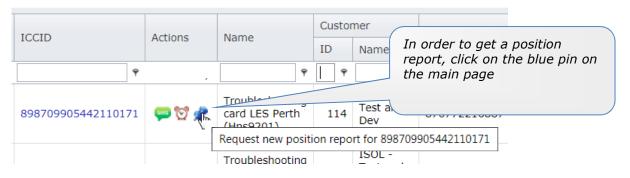
Step 2e



4.3 Where is the BGAN terminal located?

Please note that the availability of this function depends on the terminal type in use. Please refer to section 1.4 for details.

Step 1



Step 2

After you click the button below, a command will be sent to 898709905442110171, instructing it to report its position and status

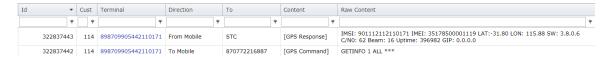


Step 3

The Position Report has been requested. It may take a few minutes for the Terminal to respond. You can track the status of this request in the <u>Message Archive</u>.

Click the link to go to the message archive

The Message Archive show the position and status information (this may take a few minutes):



Step 4



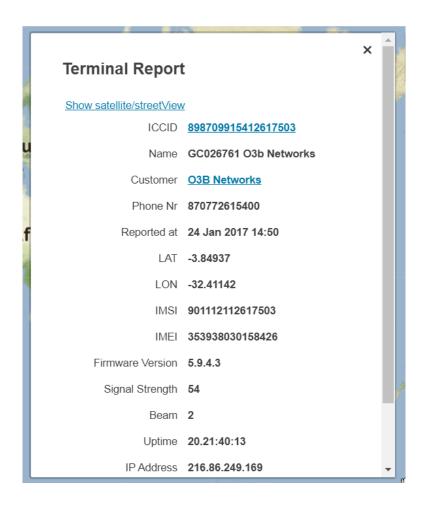


If you have multiple terminals you can see them all on one map.

4.4 More detailed information from the BGAN terminal

Please note that the availability of this function depends on the terminal type in use. Please refer to section 1.4 for details.

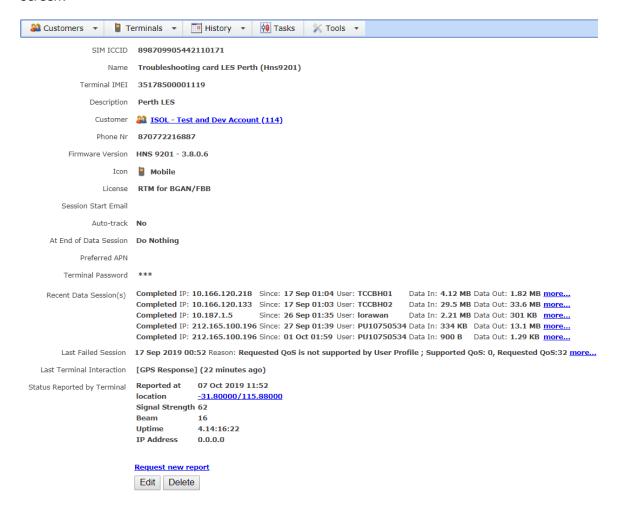
If you click on a terminal on the map, a terminal report opens up; this report contains the following information:



4.5 Notifications when terminal goes on- or offline

You can set a notification to inform the NOC once the BGAN terminal goes on- or offline.

To set a notification, select the ICCID of the terminal; this opens up the terminal details screen:



Click Edit to enable the setup of the email notifications:

