MOBILWARE

Satellite Business Solution

# Remote Terminal Management

## Remote Management made Easy

### Basic Terminal management

**It can be difficult and costly to access an already installed satellite terminal on a vessel on open sea or a remote located terminal. Most terminals do offer some level of remote management that can be achived with RTM access.**

Unity RTM can be enabled on a device - setting remote access permissions - after these are configured then will Unity RTM be able to send a SMS message that envoke a end to end IP connection to the given terminal.

### Remote Terminal access

Unity RTM offer several terminal access capabilities - like getting a standard terminal interface that allow the end user to directly enter own commands based on the connected terminals capabilities.

Another possibility is to use the predefined command set in Unity RTM that in a dropdown interface allow predefined requests to be send like get Software version, get location, get call history, get online data sessions..

### Upgrade software 'Over The Air' OTA

Unity RTM contain an integrated FTP server that have specific folders for terminal software - simply ask remote device to collect the new software, software will then in terminal get validated and if ok get loaded.

### Collect Terminal Logfiles

Get Terminal to upload logfiles to Unity RTM server and gain access to these log files for specific troubleshooting - this can be pretty powerfull way to analyse specific terminal issues.

### Remote Control Connectivity

Some terminals allow remote management of PDP contexts, streaming speeds, these terminals can be managed directly using Unity RTM.

### Terminal Status Information

Request status information as well as location directly when needed across:

- Firmware version
- IP addresses across PDP contexts
- Location - longetude + Laditude
- Uptime from last power on
- IMSI + EMEI
- Spotbeam info + Signal level

The different terminals may deliver different level of info.

### Unity SMS Gateway

Mobilware do provide a satellite SMS Gateway that allow direct connectivity with the remote devices - it is used to pull data as well as to request device to establish a data session.

Example an SMS can be send to request a data session - terminal will respond with a SMS containing IP address - Unity RTM can then following establish a data session to terminal to allow remote access. Only Inmarsat I4 devices need this gateway - on Inmarsat I5 will Unity directly manage devices.

### Remote access to Terminal Locations

Many terminals support remote tracking capability - Unity RTM can simply request the given terminal about the given location, terminal will then report back to our integrated map and be plotted or can deliver location data into our free and integrated tracking server that do support all satellite terminals across Inmarsat I4 like BGAN, FBB, SBB, Inmarsat I5 terminals ooffering real time tracking as well as any standard tracking units using T102, T103 or any of the other hundreds of foirmats supported.


### M2M Terminal Gateway

Centralized M2M device management - Unity RTM can act as a centralized M2M manager that can manage Least Cost Reouting LCR on M2M devices - example on Cobham Explorer 540 that support both 3G and Inmarsat BGAN connectivity.

The new generation of LCR devices coming from the different terminal operators offering remote access to manage IoT Lora devices will be able to be managed from Unity RTM manager.

### Bootstrap new terminals

Unity RTM can be expanded to support remote terminal bootstrap based on predefined customer and terminal profiles, this can take place across a standard ADSL connection.

### Unity RTM and integration

Unity RTM can be integrated directly with Unity platform for provisioning and billing - where Unity do manage charging on the fly for SMS messages send to devices for envoking RTM functionality.

It also integrate directly to our POP environment where the the assigned IP addresses can be used directly and can be automatically triggering RTM background functionality when going online.

## Contact Mobileware


www.theairtime.com
phone: +45 2614 0000
email: Lars@theairtime.com