**LT-3100S SW v1.07 - Release Notes**

**Product Identification**

Product Name: LT-3100S GMDSS Satellite Communications System

Unit and Part Numbers: LT-3110S Control Unit P/N: 51-101812

LT-3120 Handset P/N: 51-100988

LT-3121 Cradle P/N: 51-101181

LT-3130 Antenna Unit P/N: 51-100989

LT-3140S Interface Unit P/N: 51-101814

LT-3150S Alarm Panel P/N: 51-101815

LT-3160S Printer Adapter P/N: 51-101816

**SW Identification**

SW Part Number: 71-101828

SW Version: 1.07R  Build Number: 0007

Release Date: 25. April 2025

SW Update: ☐ Optional ☒ Recommended ☐ Mandatory

File Name: LT-3100S-v1.07R-0007.lti File size: 34.4 MB

Checksum (MD5): 0069d12568c33cfd31d98e5fc0c95bf5

Downloads: https://thrane.eu/lt-3100s-iridium-gmdss/

Contact: support@thrane.eu

**IMPORTANT:** The latest software released by Lars Thrane A/S must always be used for new installations of the LT-3100S GMDSS Systems and must be updated during a Radio Survey to ensure the best possible performance of the system and services.

**New Functions**

- SSAS support for new Flag Administrations

  Some Flag Administrations have their own specific SSAS requirements (in addition to the standardized IMO requirements). Compliance has been added for the following Flag Administrations:
  - Canada
  - Cayman Islands
  - France
  - Marshall Islands
  - Panama


- Manual printing of MSI and ISM messages

  It is now possible to manually print any MSI or ISM messages.


- Pick up handset notification

  Both incoming and outgoing voice calls can be initiated and connected while the handset is in the cradle. If the handset is not removed from the cradle immediately after the call is connected, a dialog is shown in the user interface informing the user to pick up the handset.


- Networking - Static Route

  It is now possible to configure static routes. This is required for networks where connected SIP phones are located on another network than the terminal.


- Networking - PPPoE (Internet) and Outgoing Firewall

  Using PPPoE (e.g. from Windows) it is possible to connect directly to the internet.

  The new Outgoing Firewall can optionally be used in combination with the PPPoE internet connection. The firewall configuration allows entering of domain names (e.g. www.thrane.eu) in addition to / combination with IP address' and port numbers.


- Network recovery

  The terminal can be placed in Network Recovery through the user interface of the control unit (MENU -> Settings -> Network Recovery Mode). In this state, the network configuration is temporarily changed to the same as the factory default (DHCP client & IPv4 Link-local). If no change to the network configuration is made, the terminal will return to the previous network configuration after a power-cycle.

The function can be used if the terminal no longer can be reached through the network due to an error in the network configuration.

- Remote management password reset

    In collaboration with Lars Thrane A/S support, it is now possible for the terminal owner to over-the-air (re)set the remote management password needed for tracking. It is thus possible to enable remote management and tracking without physical access to the equipment.

    This is useful if the technician forgot to enable remote management during installation / service.

**Changes**

- Presentation of software version

    When the software version is displayed in the user interfaces the build number is now also shown: 1.07R-0007.

- LRIT next and latest reports

    The Control Unit and built-in web server now show the time until the next periodic LRIT report will be send and how much time has passed since the last one was sent.

- SSAS Call Sign

    It is no longer possible to manually enter the Call Sign of the Vessel. Instead, the terminal will automatically receive and use the Call Sign from the Iridium network.

    If the Call Sign is missing or needs to be updated, this can be done by the Service Provider using the Iridium SPNet and the Maritime Safety Service Application Form (MSSAF).

- Voice service status

    The MSISDN number is now also shown in the user interface under MENU → System → Subscription → Voice service.

- Long vessel names

  The user interface would previously cut short long vessel names when displaying them. The full vessel name is now shown.

- New improved Dashboard

  The built-in web server Dashboard has been greatly improved with:
  - Signal bars and network registration status
  - GNSS information (time and position)
  - Unit status, including temperature and input voltage
  - Voice service status, including outgoing line status and SIP handset status
  - Data service status, including usage counters
  - BAM alerts (if any are active)

- Tracking support for short-code numbers

  The web server did not accept phone numbers like: *XXXXXX. These types of short-code numbers are now accepted.

- Web server networking configuration and status

  The Network page has been updated to support the many new network features.

  It is now also possible to see a list of the DHCP clients.

- AT+CIER limitations

  The +CIER AT command no longer supports the "SV and beam coordinates indicators". The <sv_beam_coords_ind> field must be encoded as a zero.

**Fixes**

- SSAS Alert send failure when long vessel name

  If the vessel name was longer than 44 characters, sending of SSAS Alert messages to an email address would fail and newer be delivered.
  The SSAS Test procedure would fail too, thus indicating whether a given terminal was affect by this issue.
  If the test procedure passed, the terminal was not affected.

  The error did not affect SMS destinations, Pole Star or CLS / Fulcrum.

- Tracking email address max length

  The web server prevented email address of more than 25 characters. The limit has now been increased to maximum 30 characters.

  Before it was (and still is) possible to configure a tracking email address of up to 30 characters through the remote protocol. The error only affected the built-in web server.

- LAN network address missing at boot

  Very rarely, the terminal would not receive an IP address at boot when configured as a DHCP client. A power cycle or disconnecting and reconnecting the Ethernet cable would resolve the issue.

- Changing network configuration caused reboot

  Very rarely, a change of the network configuration through the built-in web server would cause the system to reboot.

- Increased boot time without antenna

  When no antenna was connected the boot time took longer than usual.

- False "Lost antenna" alert at boot

  The terminal would very rarely raise the "Lost antenna" BAM Alert at boot and immediately rectify it again, though there was no issue with the Antenna Unit. The issue did not affect any other behavior than the false BAM Alert.

**SW Update Procedure**

Follow this procedure to upload new software to the LT-3100S GMDSS System:

1) Connect the LT-3110S Control Unit directly to a PC using an Ethernet cable or connect the LT-3110S Control Unit to a Local Area Network (LAN), where a PC is connected. If an LT-3140S Interface Unit is connected to the LT-3110S Control Unit, then use one of the spare Ethernet ports to connect the PC.
2) Identify the IP address that is assigned to the LT-3110S Control Unit. The IP address can be read out from the display (Menu -> System -> Network: IP Address). The IP address is valid if the 'Link Status' is showing 'Up'. The IP address is assigned dynamically by Link-local (default) or DHCP Server.
3) From the PC, start a browser (e.g., Microsoft Edge, Explorer, Chrome, etc.) and type in the IP address, which was identified in the LT-3110S Control Unit (e.g., 169.254.1.1).
4) The browser might show you a warning about an invalid web server certificate. Make sure, that you have typed in the correct IP address.
5) Press 'Details' and you will be presented for an extended page view (including a link), which will direct you to the LT-3100S GMDSS System dashboard 'Go on to the webpage (Not recommended)'. You will now see the LT-3100S GMDSS System dashboard (default login username: admin / password: admin).
6) Select the 'Software update' webpage and click the 'Browse…' button to select the LT-3100S GMDSS System file, which must be uploaded to the system. The LT-3100S GMDSS software image has the following filename (example): LT-3100S-v1.07R-0007.lti
7) Finally click the 'Upload' button to start the upload of the new software image. The upload and installation of the software image will take a few minutes. Progress bars can be monitored on the software update web page, while the software update is on-going.
8) The LT-3100S GMDSS System will reboot once the software image is installed in all units.
9) The Service Wizard must be completed after the update of the software image (see 95-102251 LT-3100S GMDSS User & Installation Manual Rev. 1.09 for further details).