



Iridium® Global Maritime Distress & Safety System (GMDSS)

FACT SHEET

Bringing Real Choice and Truly Global Coverage to Maritime Safety

When GMDSS was initially established more than 20 years ago, only one satellite company was approved to provide these services – and that company did not (and still does not) provide truly global coverage. Further, since the inception of GMDSS, there have been many advances in technology, and the number of vessels at sea has increased dramatically. A reliable, robust, and truly global satellite GMDSS solution is critical – and Iridium is providing that choice to mariners anywhere in the world.

Overview

Over the past 15 years, Iridium and its Value Added Manufacturers have built an impressive track record providing safety and security solutions to mariners around the world. In 2018, the International Maritime Organization (IMO)'s Maritime Safety Committee (MSC) officially recognized Iridium as a provider of Global Maritime Distress and Safety System (GMDSS) satellite services, ending a decades-long monopoly. Now, for the first time, Iridium is bringing competition and truly global coverage to mariners sailing any of the world's oceans.

Partner Ecosystem

Through an expansive value-added partner network of industry-leading technology companies, Iridium is advancing the way mariners communicate and connect to critical safety services. As Iridium works with its partners to develop GMDSS solutions, the new competition is driving supplier diversity and reducing the costs of shipboard equipment.

The Iridium Advantage

- ▶ **Capability:** All Iridium Connected® GMDSS terminals come standard with functionality for all three satellite GMDSS services: Distress Alert, Safety Voice, and Maritime Safety Information (MSI). Unlike the historic competitive options, Iridium Connected GMDSS terminals initiate both Distress Alert and Safety Voice simply and quickly with the press of just one button.
- ▶ **Coverage:** The Iridium network is designed to work in extreme conditions at sea. Our unique constellation connects 66 cross-linked satellites in Low-Earth Orbit, providing reliable coverage even in adverse weather around the entire globe, including over the Arctic and Antarctic waters in Sea Area A4. This area is considered among the most dangerous places on Earth, but was not served by competitive satellite GMDSS solutions.
- ▶ **Cost:** The initial Iridium Connected GMDSS terminal developed by Lars Thrane (LT-3100S) supplies all three satellite GMDSS services at a fraction of the cost of competitive equipment required to do the same. Providing GMDSS at a reduced, more affordable cost allows more vessels to install GMDSS terminals and access life-saving services.

Iridium GMDSS Services

Distress Alert	Safety Voice
Activated by the press of a button, distress alerting sends basic, but critical data to a Rescue Coordination Center (RCC). ▶ ID ▶ Status ▶ Position	Connect to an RCC and other maritime authorities through a phone call over the Iridium network to share additional details about the distress situation. ▶ High Priority Calling ▶ Hydrographic Reporting (Navigational Dangers) ▶ Medical Advice and Assistance
Maritime Safety Information (MSI)	Other Features
MSI is transmitted through an Enhanced Group Call (EGC) service called Iridium SafetyCastSM. ▶ Navigational ▶ Meteorological ▶ Safety-Related	▶ Distress Alert Relay ▶ Shore-to-Ship Distress Calling ▶ Maritime Assistance ▶ Standard Maritime Calling & Messaging

Equipment

Iridium GMDSS services with improved Search & Rescue functionalities are available through a single, small-form-factor maritime terminal. The Iridium Connected[®] GMDSS device developed by Lars Thrane integrates all three satellite GMDSS services at a fraction of the cost of competitive options, and it is the first solution to offer truly global GMDSS services.

The existing Iridium CertusTM maritime terminals, Cobham SAILOR 4300 and Thales VesseLINK, are forward compatible with Iridium GMDSS. These terminals will require supplemental below-deck hardware from their manufacturers to enable Iridium GMDSS services.



Lars Thrane LT-3100S

Additional Iridium Safety & Security Solutions

- ▶ Ship Security Alert System (SSAS)
- ▶ Long-Range Identification Tracking (LRIT)
- ▶ Search & Rescue (SAR)
- ▶ Fisheries VMS & Catch Reporting
- ▶ Emissions Monitoring (MRV)
- ▶ E-Navigation
- ▶ Anti-Piracy & Citadel Solutions
- ▶ Ice Navigation

Only One Communications Company Connects the Entire Globe

Iridium is a satellite communications company that offers voice and data connectivity anywhere in the world.

Powered by a unique constellation of 66 cross-linked Low-Earth Orbit (LEO) satellites, the Iridium[®] network enables global connections between people, organizations and assets, in real time. Through an expansive partner network of over 500 international technology companies, Iridium is advancing the way enterprises, governments, and individuals communicate every day.

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