



WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE 8th Meeting (WWNWS 8)

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What is IMSO?

- Established as a global intergovernmental organization in 1972 upon adoption of the Convention on the International Maritime Satellite Organization (INMARSAT) by IMO
- INMARSAT Convention and Operating Agreement entered into force on 16 July 1979, and the Organization became operational from 1982 to serve maritime community;
- Subsequently, in 1987 Inmarsat Convention was amended to include Aeronautical and land Mobile Satellite Services;
- In the first instance the purpose of the Convention was to provide highly reliable mobile satellite communication services for safety of life at sea (SOLAS convention) to the maritime community;

What is IMSO?

- After 20 years of successful operation, Inmarsat was privatized in 1999 and...
- The **I**nternational **M**obile **S**atellite **O**rganization (IMSO) was established
- The new organization (IMSO) was mandated by its member Governments with legal jurisdiction to oversee Inmarsat for continuous provisioning of the Global public safety services obligations (GMDSS services) including Search and Rescue (SAR)
- IMSO operations was further enhanced with the appointment by the IMO as the “LRIT Coordinator” (resolution MSC.275(85))

What is IMSO?

- Today with 102 Member States
- Headquartered in London
- Member States Assembly (meets biannually)
- Advisory Committee (meets twice a year)
- Directorate with DG and staff members supported by the Assembly of Member States and an Advisory Committee



IMSO's role in GMDSS

- Core purpose is to ensure the provision of maritime mobile satellite communications services for the **GMDSS**
(IMSO Convention Article 3)
- Legal instruments to deliver this function?
 - IMO Resolution A.1001(25) on Criteria for the provision of mobile satellite communication systems in the GMDSS; and
 - Public Services Agreement (PSA)
- Working together with Administrations, international organizations, IGOs, NGOs and the industry to improve safety, security at sea and protection of marine environment

IMSO's role in GMDSS

- Overseeing GMDSS service provider(s)
 - Public Services Committee meetings
 - Regular meetings with technical and operational staff
 - Satellite constellation
 - Service portfolios

IMSO's role in GMDSS

- Overseeing GMDSS service provider(s)
 - Network Availability
 - Restoration of service and spare satellite capacity
 - Satellite contingency exercises
 - Facilitate cooperation between the Provider and end-users
- Annual report to IMO

IMSO's role in LRIT

- LRIT - tracking of ships via satellites systems and exchanging information through a secure network
- IMSO's secondary function is to fulfil the responsibilities and duties of “LRIT Coordinator” under SOLAS Regulation V/19-1
(IMSO Convention Article 4)
 - Reviews and audits the performance of the LRIT components
 - Reports its findings to the MSC through NCSR
 - Participates in the testing of new LRIT components or requirements
 - Undertakes investigation of operational disputes
 - Provides technical assistance and advice

Update on GMDSS

- Review and Modernization of GMDSS
- Revision of SOLAS Chapter IV
- Potential revision of resolution A.1001(25)
- Generic performance standards for shipborne GMDSS equipment

Update on Inmarsat activities

- Availability during last reporting period (November 2014 to October 2015) :
> %99.9
- Satellite contingency exercises
4 exercises per year, last exercise was in June

Update on Inmarsat activities

- Decommissioning of the I-3 F4 satellite
successfully completed on 1st April 2016
- Closure of Inmarsat B service
end of 2016
- Notification for closure of Fleet-77 service
December 2020

Update on Inmarsat activities

- Inmarsat-6 satellites
will be in service by 2020
- SafetyNET II
expected to be live in January 2017

Update on Iridium application

- IMSO submitted its report on the technical and operational assessment of Iridium to NCSR 3 (NCSR 3/11)
- NCSR 3 considered the report and endorsed the list of outstanding issues,
- MSC 96 endorsed the views of NCSR 3.

What is next?

- Iridium will advise IMSO when it is ready to be assessed.
- IMSO will
 - asses the outstanding issues.
 - submit its report to NCSR Sub-Committee

Interoperability

Definition:

“the ability to conduct ship-to-ship, ship-to-shore, and shore-to-ship communications without regard to differing satellite systems in use by the communicating stations”

** NCSR 3/14*

Interoperability

Issues:

- Broadcasting and monitoring MSI
 - Cost? Implementation?
- Distress alert relay
 - Delays?

Interoperability

Solutions:

- Single point of distribution operated by an **international** body
- Maritime cloud (e-navigation)

Update on LRIT

- 119 SOLAS Contracting Governments
including non-metropolitan territories
and special administrative regions
- 55 Data Centres
- More than 1,000,000 position reports
exchanged between DCs every month.
- More than 350 audits since 2010

Thank you...