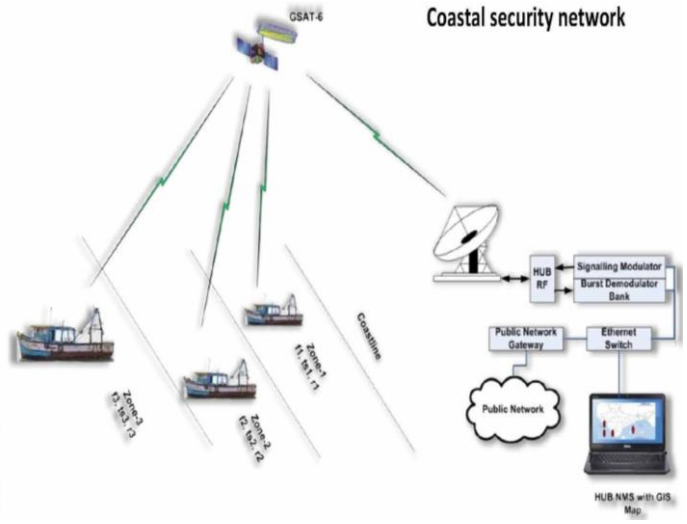

TWO-WAY MSS TERMINAL FOR VESSEL TRACKING

Space Applications Centre (SAC) of Indian Space Research Organisation (ISRO) has developed low data-rate two-way MSS terminal for tracking of small boats using in-house developed modem ASIC. The terminal finds use in messaging services, dissemination of information on Potential Fishing Zone (PFZ), disaster warning, asset tracking, etc.

Salient Features

- Forward Link : 9.6 kbps
- Return Link : 2.4 kbps
- Channel Access : Dynamic TDMA
- In-built GAGAN/ NavIC for position
- Bluetooth/ Wi-Fi user Interface
- Mast mountable
- IP65 compliance package
- Battery backup and light Weight

Specifications

- Single patch antenna having 2.5 dBi gain over ±45 deg beam-width
- Terminal EIRP : 3.0 dBW min
- 250 ms time slot for reporting
- Rate ½ forward error
- Correction
- QPSK Modulation
- Channel spacing : 10.00 KHZ

End usage: Vessel Tracking - It is developed for tracking of small boats. Other possible application be used for

- Message services
- Disaster warning dissemination
- Potential fishing zone dissemination
- Asset Tracking Services

SAC Technologies

Technology Transfer

SAC/ISRO, offers to transfer this technology of the **Two-way MSS Terminal for Vessel Tracking** developed by SAC to industries in India with adequate experience and facilities. Enterprises interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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