Liaison Note to IEC TC 80 WG 15

Clarification for AIS Class B SO

# Introduction

IEC TC 80 WG 15 has started to draft a test standard for AIS Class B SOTDMA mobile station (IEC 62287-2)

IALA received a liaison statement from IEC TC 80 WG 15 asking for technical clarification regarding the behaviour and optional behaviour for AIS Class B SO.

# ITU R M. 1371-4 Technical clarification regarding AIS Class B SO

During the 8th meeting of the IALA e-Navigation Committee, in September 2010, the liaison statement from IEC TC 80 WG 15 was discussed and the following will be incorporated into the technical clarifications

## VDL access

IALA agrees with the proposed adapted reporting interval in high VDL load scenarios

## Assignment of Class B SO mobile station

The behaviour regarding group assignment shall be as defined in 1371-4 for Class B CS behaviour.

## Interrogation of Class B SO mobile station

## It should be possible to interrogate a Class B SO mobile station for Message 24 B. However the Class B SO mobile station shall not broadcast Message 24B unless interrogated.

## Message 24B Vendor ID

NMEA mnemonic manufacturer codes should be used for Message 24B Manufacturer ID. Manufacturers and or Vendors may request this code via NMEA at [www.nmea.org](http://www.nmea.org).

# Guidance for the behaviour of AIS Class B SO

## Physical interface

The Class B SO must have a presentation interface.

## Use of internal GPS receiver

For position reporting the internal GPS receiver must be used. An external interface for input of position information is not allowed

## Maintain reporting without position information

The last valid position should be broadcast with time stamp 63. The reporting interval should be increased to 3 min.

This behaviour and its ramifications to external displays should be clearly defined by IEC WG 15 and should be brought to the attention of other relevant IEC WG.

## Group assignment

The behaviour regarding group assignment shall be as defined in 1371-4 for Class B CS behaviour.

## Channel management

Channel Management via Message 22 and DSC is required.

Class B SO frequency range requirements shall be the full VHF maritime mobile band.

## Message 17 capability

Class B SO shall use Message 17, when available, for differential correction of the internal GPS receiver. RAIM is also required.

## Tx power

Class B SO shall have two power settings: low = 1 Watt, high = 12,5 W (default)

# Action requested

IEC TC 80 WG 15 is requested to draft appropriate tests for the behaviours.