1   Satellite Ship Weather Tiny   Version: 0

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DAC: 367   FI: 25

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Future variant: TBD.

Summary of changes:

Release Version 0a:

- updated e-mail address

1.1   Introduction

The Satellite Ship Weather Tiny message is intended to be used to transmit weather observations over ship that will be received by Satellite AIS receivers. The difference between this message and the DAC 1 FI 21 Ship Weather report is that this message has been reduced in size to provide increased probability of detection via satellite. Similar to the rationale for the AIS message 27, this message is much less than a single slot.

All directions are relative to True North, all positions are WGS-84 Datum.

1.2   Usage notes

1. For this message, the data is assumed to be from transmitting MMSI, and is a ship station. The sensor owner is the source of the data, as indicated by the MMSI. The data is assumed to be raw real time data with a validity interval of 6 hours.
2. In order to reduce sentence size while retaining weather data, the position has been dropped from this message so the position of the data report must be inferred from the AIS message 27s or 1s received around this message.

1.3 Message Format

Table 1: Satellite Ship Weather Framework – Broadcast

Parameter			# of bits	Description
Standard Message Header	Message ID		6	Identifier for Message 8; **always 8**.
	Repeat Indicator		2	Used by the repeater to indicate how many times a message has been repeated. (See ITU-R M.1371-3, Annex 2, § 4.6.1). 0 – 3; 0 = default; 3 = do not repeat any more. **Set to 0** (default).
	Source MMSI		30	MMSI number of source station.
	Spare		2	Not to be used. **Set to zero.**
Binary Data	Designated Area Code		10	Designated area code (DAC). (See Rec. ITU-R M.1371-3 § 2.1, Annex 5). **Set to 367** (US).
	Function Identifier		6	Function identifier. **Set to 25.**
	Application Data	Version	3	Sequential number used to indicate the message version in steps of 1. 0 = test message = default; 1 – 7 = message version. **Set to 0.**
		UTC hour	5	UTC hour of the time of the data. 0 – 23; 24 = UTC hour not available = default; 25 - 31 (reserved for future use).
		UTC minute	6	UTC minute of the time of the data. 0 – 59; 60 = UTC minute not available = default; 61 - 63 (reserved for future use).
		Air Pressure	9	Air pressure, defined as pressure reduced to sea level, in 1 hPa increments. 0 = pressure <800 hPa; 1 - 401 = 800 – 1200 hPa; 402 = pressure of 1201 hPa or greater; 403 = data unavailable = default; 404-510 = reserved; 511 = not to be used.
		Wind Speed	7	Average of wind speed values over the last 10 minutes in 1 knot increments. 0 - 120 knots; 121 = wind 121 knots or greater; 122 = data unavailable = default; 123 – 126 = reserved; 127 = not to be used.
		Wind Direction	9	Direction of the average wind over the last 10 minutes in 1 degree increments. 0 – 359 degrees; 360 = not available = default; 361 - 510 = reserved; 511 = not to be used.
		Spare	1	Set to zero.
Total bits			**96**	**<1 slot message**