

LONG-RANGE AUTOMATIC IDENTIFICATION SYSTEM BROADCAST MESSAGE (MESSAGE 27)

This message is primarily intended for long-range detection of AIS Class A and Class B “SO” equipped vessels (typically by satellite). This message has a similar content to Messages 1, 2 and 3, but the total number of bits has been compressed to allow for increased propagation delays associated with long-range detection. Note there is no time stamp in this message. The receiving system is expected to provide the time stamp when this message is received.

Parameter	Number of bits	Description
Message ID	6	Identifier for this message; always 27
Repeat indicator	2	Always 3
User ID	30	MMSI number
Position accuracy	1	As defined for Message 1
RAIM flag	1	As defined for Message 1
Navigational status	4	As defined for Message 1
Longitude	18	Longitude in 1/10 min ($\pm 180^\circ$, East = positive (as per 2's complement), West = negative (as per 2's complement) 181° (1A838 _h) = position older than 6 hours or not available = default)
Latitude	17	Latitude in 1/10 min ($\pm 90^\circ$, North = positive (as per 2's complement), South = negative (as per 2's complement) 91° (D548 _h) = position older than 6 hours or not available = default)
SOG	6	Knots (0-62); 63 = not available = default
COG	9	Degrees (0-359); 511 = not available = default
Position latency	1	0 = Reported position latency is less than 5 seconds; 1 = Reported position latency is greater than 5 seconds = default
Spare	1	Set to zero, to preserve byte boundaries
Total number of bits	96	