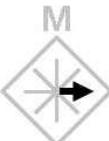
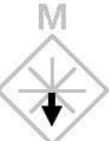


4 ACTION REQUESTED OF THE COMMITTEE

The Committee is requested to consider the information provided and act accordingly.

	Symbol name and description	Symbol graphic(s)
2.10 c	<p>AIS aids to navigation – Mobile</p> <p>Source of mobile AIS AtoN is: AIS Message 21 AtoN Status = Page ID = 101 MMSI identity range: 99 MID 8000 – 99 MID 9999</p> <p>Mobile AIS aids to navigation (AtoN) shall be presented as an open diamond topped by letter “M” of not more than 2 mm in length or height and a compass rose inside centred at reported/predicted position. The sides of the diamond shall be not more than 6 mm in length.</p> <p>The diamond and the compass rose shall be drawn using a thin solid line style (Virtual AtoN Flag = 0) or a thin dashed line (Virtual AtoN flag = 1).</p> <p>The basic colour for a mobile AIS AtoN is as used for the physical AIS AtoN symbols.</p> <p>Mobile AIS AtoN with known direction of movement shall include an arrow originating from the compass rose centre oriented towards to the reported COG of the mobile AIS AtoN (see AIS AtoN Status bits when Page ID bits = 101 in Table L.1) adjusted to the orientation mode in use. The result from “adjusted to the orientation mode” shall be presented aligned with the closest line of the compass rose.</p> <p>Mobile AIS AtoNs may be labelled with the AtoN name. Alphanumeric text used to label a mobile AIS AtoN shall be the same basic colour as the mobile AIS AtoN symbol. It may be user selectable for the label to include full textual content of the AtoN name or truncated version of the AtoN name, for example only last 3 characters of the AtoN name.</p>	<p>Basic shapes</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Default</p> <p>Virtual AtoN Flag = 0</p> </div> <div style="text-align: center;">  <p>Virtual</p> <p>Virtual AtoN Flag = 1</p> </div> </div> <p>Basic shapes shall use the additional qualifiers below to denote the AtoN as propelled.</p> <p>Self-propelled, but direction not reported or unavailable (AtoN Status bits 1010111x)</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>Tethered (AtoN Status bits 1010101x)</p> <div style="text-align: center;">  </div> <p>If COG information is provided, it shall be presented with an arrow pointed in coarse direction of COG within ±22,5° sectors as defined by AtoN Status bits (see Table L.1).</p> <div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; justify-content: space-around; width: 100%;">   </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;">    </div> <div style="display: flex; justify-content: space-around; width: 100%; margin-top: 10px;">    </div> </div>

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**Annex L
(informative)**

Overview of the use AIS AtoN status field bits

4148 NOTE Refer to IALA A-126 for possible later versions of Table L.1.

4149 Table L.1 provides an overview of AIS AtoN status field bits.

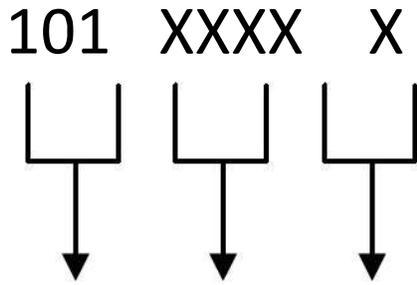
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Table L.1 – AIS AtoN Status field

Bit Order		RACON / Light	Bit Order		Mobile AtoN & Method and Direction of Movement	Regional AtoN		
8 th 7 th & 6 th	Bits	Page ID = 111	8 th & 7 th & 6 th	Bits	Page ID = 101	Page ID = 001		
5 th & 4 th	00	No RACON installed	5 th , 4 th , 3 rd & 2 nd	0000	Direction Not Reported	No Further Information Default	Reserved for regional use ^a	
	01	RACON installed but not monitored		0001		Free-floating ABCD values denote an area (e.g. oil spill)		
	10	RACON operational		0010		Free-floating ABCD values denote an object (e.g. craft, gear, flotsam, etc.)		
	11	RACON Error		0011		Moves as defined (Synthetic) ABCD values denote an object (e.g. craft, gear, flotsam, etc.)		
3 rd & 2 nd	00	No light or no monitoring		0100		Moves as defined (Synthetic) ABCD values denote an area (e.g. dredging zone)		
	01	Light ON		0101		Tethered from a watercraft (e.g. cable, pipe, net)		
	10	Light OFF		0110		Reserved for future use		
	11	Light fail or at reduced range		0111		Self-propelled, but direction not reported or unavailable		
1 st	0	Good Health		1000		Direction of movement (COG)		000° ± 22.5°
				1001				045° ± 22.5°
				1010				090° ± 22.5°
				1011				000° ± 22.5°
			1100	135° ± 22.5°				
			1101	180° ± 22.5°				
			1110	225° ± 22.5°				
			1111	270° ± 22.5°				
	1	Alarm	1 st	0	Monitored			
				1	Unmonitored			

^a E.g. VTT-EG AIS AtoN for Inland Use standard
NOTE 8th bit is most significant and 1st bit is least significant

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Mobile AtoN & Method and Direction of Movement status 8 bits format : 101 XXXX X		
Page id (8 th , 7 th and 6 th bit)	Direction not reported field OR Direction of movement (COG) (5 th , 4 th , 3 rd and 2 nd bit)	Monitoring Status (1 st bit)
101	0000 = No Further Information Default	0 = Monitored
	0001 = Free-floating ABCD values denote an area (e.g., oil spill)	1 = Unmonitored
	0010 = Free-floating ABCD values denote an object (e.g., craft, gear, flotsam, etc.)	
	0011 = Moves as defined (Synthetic) ABCD values denote an object (e.g., craft, gear, flotsam, etc.)	
	0100 = Moves as defined (Synthetic) ABCD values denote an area (e.g., dredging zone)	
	0101 = Tethered from a watercraft (e.g., cable, pipe, net)	
	0110 = Reserved for future use	
	0111 = Self-propelled, but direction not reported or unavailable*	
	1000 = $000^{\circ} \pm 22.5^{\circ}$ *	
	1001 = $045^{\circ} \pm 22.5^{\circ}$ *	
	1010 = $090^{\circ} \pm 22.5^{\circ}$ *	
	1011 = $135^{\circ} \pm 22.5^{\circ}$ *	
	1100 = $180^{\circ} \pm 22.5^{\circ}$ *	
	1101 = $225^{\circ} \pm 22.5^{\circ}$ *	
	1110 = $270^{\circ} \pm 22.5^{\circ}$ *	
	1111 = $315^{\circ} \pm 22.5^{\circ}$ *	

Note: The ABCD value are the “dimension/reference for position” parameter of the MAtoN object itself and not the dimensions of the area in which a floating aid can move (guard zone) or dimensions of a “dangerous zone” around the AtoN (refer to the message type 21 dimensions field information).

* Status bits relating to; self-propelled and direction of movement are for future development, testing of trial concepts and should only be used after a full risk assessment by a competent authority.

Figure 4 Recommended use of status bits for MAtoN