NIPWG10 (2023)

S-125 Marine Aids to Navigation Update

NIPWG10-11.3.1A

NIPWG-10, 12 - 15 September 2023 (IHO Secretariat, Monaco)

- IALA ARM 16
  - Held in October 2022 in at the IALA
  - S-201/S-125 Task group updated the draft of S-125 (ed 0.0.3)
  - Includes a feature catalogue, portrayal catalogue and GML schema
  - Created liaison note requesting review of the updated draft
- NIPWG Letter 03/2023 - Updated Draft of S-125 PS
  - Requested to review the draft and provide any comments as an input to the next IALA ARM meeting which will take place in the fall of this year
  - Review the package and provide any input using the standard form by July 31st
  - Chair group will collect this input and submit feedback to IALA ARM committee's next meeting

- The feedback from BSH, NTOU and UKHO

- Major comments

  - Issues on AIS Aton Features (Physical, Synthetic, Virtual)

  - Update for S-100 Ed.5.0.0

  - Dataset naming convention

  - Metadata section update for S-100 Ed.5 Part 17

  - Inheritance is missing in the GML schema

- Part of the comments

1	2	(3)	4	5	(6)	(7)	
Component	CO[1]	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table /Note (e.g. Table 1)	Type of com-ment[2]	Comment (justification for change) by the CO[3]	Proposed change by the CO	Secretariat observations on each comment submitted
					VirtualAISAidsToNavigation may not have any 'parent structure' to be associated to. Daymark may "act as either a structure or equipment feature in practice…"		
PS	ntou	6.2	p.14 7th - 8th point	te	Broadcasting station for virtual AIS or synthetic AIS is not necessarily an AIS Base Station. It could be an AIS ATON Station, which is even a more common case.	Consider the modelling of AIS ATON Station.	
PS	GER	Page 17	Figure 3	ge	Landmark – colour A landmark is a visual object, which could be seen from a certain distance. Consider to change multiplicity and make the attribute mandatory.	Consider to change multiplicity and make the attribute mandatory. + colour: colour [1..*] {sequence}	
PS	ntou	6.2	p.18, Fig.4	te	'Equipment' is the superType of all AISAidsToNavigation feature types (Physical, Synthetic and Virtual) and RadioStation (i.e. DGNSS or AIS Base Station). Therefore, according to FC, it is mandatory for such 'Equipment' object to be associated with a parent 'Structure Object'. VirtualAISAidsToNavigation may not have any 'parent structure' to be associated to.	Merge the Abstract features 'Structure Object' and 'Equipment' into their superType 'Aids To Navigation'. So that it is not necessary for AISAidsToNavigation features to be associated with any structure, in addition, they can also use the 'AtoN fixing method' information binding (originally of the 'Structure Object').	
PS	ntou	6.2	Fig.4	te	PhysicalAISAidToNavigation (the message) is broadcast by an AIS AtoN Station which is physically located on the aid to navigation. 1. It is not a 'virtual AIS'. It is not 'broadcastBy' an AIS Base Station.	Remodel the PhysicalAISAidToNavigation, e.g. remove the association with AIS Base Station/RadioStation, and the role as 'Virtual AIS'.	

- During ARM17
  - Will be held from 23 to 27 October 2023
  - S-125 team will prepare an input on the comments from NIPWG
  - ARM review the input and discuss how to update the S-125 0.0.3
  - The portrayal catalogue will be improved
  - NIPWG chair will attend the ARM and discuss the comments
- After ARM17
  - Update the S-125 0.0.3
  - Update the FC, PC and GML Schema
  - Discuss with the S-125 service team of DTEC
  - Share the ARM discussion and improved S-125 with NIPWG