

IHO MASS PT S100 Gap Analysis

Member State/Organization United Kingdom

S100 Standard Reviewed S-131

Maturity of Standard Quite immature V0.2

S100 Standard Chair Eivind Mong

Issue/Requirement (take from Spreadsheet)	Issue addressed?	More content?	Gap in standard?	Potential Solution/s	Ease to implement?
MASS will require canal locks to be captured with relevant attribution, such as width of lock.	✓	<input type="checkbox"/>	<input type="checkbox"/>	Canal locks and other associated features (e.g. bridges) have been moved to S-127 and are not part of S-131.	Choose an item.
MASS will require port areas/limits to be captured as polygons with relevant attribution.	✓	<input type="checkbox"/>	<input type="checkbox"/>		Choose an item.
MASS will require a better standardization and accessibility to harbour infrastructure datasets.	✓	<input type="checkbox"/>	<input type="checkbox"/>	That is the purpose of S-131, it will allow port operators to send information to Hydrographic Offices in a standardised way and ensure the Hydrographic Offices publish data in a standardised way.	
MASS will require the natural language data in publications, charts (pick reports) and MSI to be made machine readable and interpretable. Natural language is difficult for machines to read and interpret, we	<input type="checkbox"/>	<input type="checkbox"/>	✓	There is likely to be a gap, however, the S-131 standard provides contextual information that humans would need, but MASS would not need (e.g. is there a hospital or a station at the port). Most free text is used to describe features.	Moderately

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need to move to a feature and attribute model for all aspects of data for MASS. This will also need to cover meta data for the actual data.				We need to examine each instance of a free text field being used and look at it context as to whether it is appropriate to remain free text, this has been done below.	
Below are textual fields found throughout the standard which we feel could be changed to allow for enumeration thereby more appropriate for MASS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Choose an item.
Applicable Load Line Zone	<input type="checkbox"/>	<input type="checkbox"/>	✓	Consider enumeration for this as there's less than 10 types	Easy
Approach Description	<input type="checkbox"/>	<input type="checkbox"/>	✓	Can this free text supplemented by a defined track or could it be?	Moderately
Bollard Description	<input type="checkbox"/>	<input type="checkbox"/>	✓	This should be a combination of enumeration for the type of bollard and a numeric value for safe working load	Easy
Communication Chanel	<input type="checkbox"/>	<input type="checkbox"/>	✓	This should be a real number with an enumerated suffix where appropriate.	Easy
Country Name	<input type="checkbox"/>	<input type="checkbox"/>	✓	Should be enumerated with an official list of countries.	Easy
Language	<input type="checkbox"/>	<input type="checkbox"/>	✓	This could be enumerated.	Easy
MMSI Code	<input type="checkbox"/>	<input type="checkbox"/>	✓	Should be numeric only	Easy

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Nationality	<input type="checkbox"/>	<input type="checkbox"/>	✓	Could be enumerated.	Easy
Protocol	<input type="checkbox"/>	<input type="checkbox"/>	✓	Could be enumerated	Easy
Tug Information	<input type="checkbox"/>	<input type="checkbox"/>	✓	Could be broken down and then use enumerated values and could have a textual component such as the name of the tug.	Moderately