

1	2	(3)	4	5	(6)	(7)	
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	DE	1.1.and 4.1		ge	It is to be questioned whether the specific purpose of the product specification is to respond to requests to produce a data product that can be used in a NWIO within an ECDIS.		
	FR	1.1		ge	The scope of the S-124 should clarify the product. It applies to NW of the WWNWS. It may be used for official local NWs.	The first sentence could be: <i>This document describes an S-100 compliant product specification for navigational warnings issued under the auspice of the IMO/IHO WWNWS. It may also be used for local navigational warnings issued on the authority of a government authorized institution.</i>	
	NZ	2.1		ed	Should “formates” be “formats”?		
	FR	3.1	In-force bulletin	ge	This definition comes from S-53 (§ 2.2.1). The term “and broadcast” is questioning. There is a discrepancy with S-53 chapter 7 (Miscellaneous/In-force bulletin) where the in-force bulletin lists all warnings in-force even if no longer being broadcast. The definition of in-force bulletin in S-53 should be clarified by WWNWS-SC (it could be “a list of serial numbers of those NAVAREA, Sub-area or coastal warnings in force issued by the NAVAREA Coordinator, Sub-area Coordinator or National Coordinator”). This proposed definition is aligned with Explanation given for In-force bulletin in paragraph 10.1.2 of the draft S-124.		
	DE	5		ed	The title should be the same like on the cover page	IHO Geospatial Standard for Navigational Warnings	
	DE	5		ed	The first characters should be capitalized	Title; Abstract; Acronym, Content, SpatialExtent, TemporalExtent, SpecificPurpose	

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	DE	6		ge	The clause should be rephrased due to the fact that the earlier versions are irrelevant as this is still a draft and not a released version	Remove all sentences with the term earlier versions	
	DE	6	Figure 6.1	ed	Information in the naming of the figure should be written out	Figure 6.1 – S-124 Features and Information Types	
	DE	6	Figures 6.1 and 6.2	ge	It would be beneficial for the reader if the composition of figures 6.1 and 6.2 content is similar.		
	DE	6		ge	The comprehensibility of the text would be supported by an example Navigational Warning with several instances of S-124_NavigationalWarningFeaturePart.		
	DE	6	Figures 6.1 and 6.2	te	Does not every information belong to an area/spatial? The multiplicity of both spatial attributes should be 1..*	+ areaAffected: PointCurveOrSurface [1..*] + geometry: PointCurveOrSurface [1..*]	
	DE	6	Figure 6.2	ge	S124_InformationType: which information should be inherited to the children?		
	DE	6	Figure 6.2	te	In the S124_Preamble box – the simple attribute S124_publicationDate: dateTime needs to be explained. A definition is required.		

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	DE	6	Figure 6.2	te	The enumeration S_124warningType should be split into three different enumerations; consequently, the use of S124_Preamble is more convenient.	areaNW, areaNoNW, areaInForceBulletin	
	DE	6	Figure 6.2	te	Response on: remark to retain enumeration value (“repetition”) in S124_referenceCategory. A repetition is not necessary. All valid NW are in-force.	Delete enumeration value “repetition”	
	DE	6	Figure 6.2	te	ComplexAttributeType: S124_fixedDateRange the attributes timeOfDayEnd and timeOfDayStart could also be encoded by ComplexAttributeType: schedulebyDoW (see S-122). This simplifies the computing of information among various products		
	DE	6	Figure 6.2	te	The naming of the featureObjectIdentifier in S124_ENCFeatureReference and the featureIdentifier in S124_featureReference should be identical. Could it be solved by MRN?		
	DE	6	Figure 6.2	ed	Small character in the caption of the Figure 6.2	Figure 6.2 – The full S-124 Data Model 0.2.4	
	DE	6		ge	The reference for codelists for ISO 639-2 (language code), ISO 3166-1 (country code), S-62 (IHO data producer code) and EPSG (horizontal datum code) should be provided.		
	DE	7		ed	The term “types” is missing	Simple attribute types used in this specification are listed in Table 7.1 – Simple feature attributes	
	DE	7	Table 7.1	ge	An example of a Truncated date would be beneficial to show that at least one of the components (YYYY or MM or DD) must be present with omitted elements replaced by the appropriate number of hyphens	EXAMPLE 2019----	

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	DE	7.3		ed	Replace the term “is” by “should be”	There should be no use of a specific unit of measure in the S-124 data model. However, the content of text attributes that describe the nature of navigational warnings may make use of the following units of measure	
	NZ	7.3		te	<i>[response to comment]</i> Agreed. All examples in S-53 for short horizontal distances (E.g. length of tow) typically use metres as the unit of measurement.		
	FR	8.5		te	Time/date information would be most often also included in the text attributes, at least at the beginning because the S-124 textual information would probably be the core textual information of the S-53 warning. Time-date coded in S-100 (S-124) attributes is for the machine. The display (HMI) is another thing. As S-100 ECDIS will display more time-date information from various dynamic products from different services (VTS, AIS, tide, current, etc...), it appears important to harmonize the display of dates and times in ECDIS HMI .		
	NZ	8.5		te	<i>[response to comment]</i> Drifting Objects require a date/time of sighting in the text – not sure if this is applicable to the text attributes?		
	DE	9.1		ed	Is the header “9.1 Introduction needed” as it is the only one within the chapter Data Quality?		
	DE	10		ed	Appendix A is missing	Appendix A (tbd)	
	DE	10		ge	Local warnings are outside of scope of S-53, and will be defined in national or local documentation. Should this not rather belong to clause 4.1 “Specific Purpose”?		

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	DE	10.1.2.1		ed	The font size must be adjusted to 11 pt		
	DE	10.1.2.1		ge	Could the content of Datasets be implemented into a table 10.2?		
	FR		10.1.2.1 In-force bulletin	ed	In the last sentence, remove “Dataset will contain one Preamble” because it is already stated in the first sentence of the paragraph.	Dataset may contain one or more References information type instances and must not contain any NavigationalWarningFeaturePart or TextPlacement instance.	
	FR		10.1.2.1	te	The Datasets and their type have a meaning within a same series. This should be stated in 10.1.2.1	A Navigational Warning within a series is communicated via a dataset. A dataset is a grouping of features, attributes, geometry and metadata which comprises a specific coverage. There are five types of S-124 datasets, and a dataset must contain only one Navigational Warning or In-force Bulletin of the series.	
	NZ	10.1.3		ed	<i>[response to comment]</i> What is meant by “self-reference”?		
	DE	10.7.1		ed	Is the header 10.7.1 Sequence of objects needed as it is the only one in the sub chapter?		
	FR		10.8	te	Use of MRN: the use of MRN should be optional because we can expect some difficulties when implementing the concept and because local warnings are out of IHO’s domain. We only need to create one MRN for the dataset (the NW as a whole) and use URN inside the NW to refer occasionally to objects having an URN (an AtoN for example, a regulation,...).		

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	DE	10.12		ed	“an electronic” is missing	S-124 datasets are intended to be used as an overlay over an electronic nautical chart.	
	DE	10.14		ed	change “+” into “and”	Filtering functions could include options like filtering on route and buffer, navigational warning topic, date range of the hazard, or valid time of the navigational warning.	
	DE	10.14		ge	A Navigational Warning with no display makes on charts no sense. The note is superfluous.	Delete the note: When a NavigationalWarningFeaturePart is not portrayed, any associated TextPlacement features must also not be portrayed.	
	DE	11	Table 11.1	ed	The value “English” is listed twice in the row Language	Delete one of the terms “English”	
	DE	11.2.1 and 11.2.2		ge	As any dataset not found in the latest in-force bulletin must be considered not valid, an in-force bulletin should always be created when a new NAVTEX message has been released.	The valid in-force bulletin dataset must be synchronized with valid NW datasets issued at any time .	
	DE	11.2.2		ed	It should be considered whether the technical service description should be part of the Product Specification. Usually the data provision is not provided.		
	DE	11.2.2		ed	See comment above. If technical service description should stay in this document, please consider the below. The producer technical service should deliver on request from client systems information about production process of a series for quality management purposes. Is this working by step-tracking or four-eye-principle?		

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	FR		11.2.2	te	Currently NW are broadcast separately in English via international SafetyNET and international NAVTEX, and in national language via national safetyNET and national NAVTEX. Considering that broadcasts generally need limited amount of data, this might imply that datasets will not be multilingual but will be replicated in both languages for separated broadcasts. This point should be examined.		
	FR		11.6	te	The problem with exchange sets is that exchange sets imply repetition of meta data, in particular dataset discovery metadata (cf 14.2.1) will be repeated with the same data for each dataset. As a result there is a risk that the size of this dataset metadata will be larger than the dataset itself in a lot of cases. Radio-broadcast at sea implies optimization of data volume. A lot of meta data inherits from the series (parent meta data) which could be described as a service. ME33 comment in 14.2 (S-124 as a service) should be investigated.		
	DE	11.7		te	Dataset size of e.g. 50KB. Do we have any definitions on that in relevant IMO papers? Although we did an intensive cross check, we were not able to find any information.		
	FR		11.7	te	Limitations will come from radio-broadcast requirements, and thus, from radio-com systems at sea, in particular those used by the GMDSS for broadcasts.		
	DE	12.2		ge	As this version of the Product Specification contains the Appendix E the comment can be deleted.		

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	DE	13		ed	One letter is missing	Appendix F contains the portrayal catalogue using the XSLT concept from S-100.	
	DE	13		ge	Once cancelled the dataset must not be displayed on the navigation system. From this point of time the information becomes superfluous and worthless.	Delete the part of the sentence “when it is used in route monitoring mode”.	
	DE	14.2 and 14.2.1		ed	Font size is different	Change the font size from 12 pt to 11 pt	
	DE	14.2.1	Table 14.1	ge	For the purpose of providing information on different systems the dataset metadata copyright is not needed.	Delete the row copyright	
	NZ	14.2.1		ge	<i>[response to comment on copyright]</i> I can't envisage a situation where NAVAREA/National Coordinators could copyright a navigational warning. The subject/text is not originated by the NAVAREA Coordinator; rather it is reproduced in the warning typically from information provided by those whose operations are causing the hazard (tow/rig companies, etc).		
	FR		14.4 / First sentence	ge	S124 product specification should specify only NWs and their delivery by their producers which are government authorized institutions. The delivery of NAVAREA, sub-area and coastal warnings from the producer to the ship should be defined by WWNWS-SC in the framework of the GMDSS. Composite exchange sets issued and sold by third party vendors should not be in the perimeter of S-124.	Remove all the text in 14.4 before 14.4.1	
	DE	14.4.1		ed	Error! Reference source not found.	Delete the bookmark or adjust the bookmark link	
	DE	14.5		ed	Error! Reference source not found.	Delete the bookmark or adjust the bookmark link	

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	DE	Appendix E.	3.2 no.101	ge	The cell file size has to be conform with 11.7 data size		

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