



S-100WG-VTC2 Catch-Up Meeting

Proposal for Adding itemIdentifier to S100_FC_Item

Agenda Item 07



- A mechanism is required in the IHO GI Registry to uniquely identify items, and versions of items, which have been included in S-100 based Product Specification Feature Catalogues.
 - Current identifier in Feature Catalogues appears to be the sourceIdentifier attribute of the Class FC_DefinitionReference – no corresponding field in the IHO GI Registry.

Table 5-A-4 — S100_FC_Item

Role Name	Name	Description	Mult	Type	Remarks
Class	S100_FC_Item	Abstract base class that defines the common properties of all items in the feature catalogue; items are feature types, information types, feature associations, information associations, attributes and roles	-	-	Abstract class
Attribute	name	Name of the item	1	CharacterString	
Attribute	definition	Definition of the named type in a natural language	1	CharacterString	
Attribute	code	Code that uniquely identifies the named type within the feature catalogue	1	CharacterString	

Part 5 - Feature Catalogue

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S-100 Edition 5.0.0

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Role Name	Name	Description	Mult	Type	Remarks
Attribute	remarks	Further explanation about the item	0..1	CharacterString	
Attribute	alias	Equivalent name(s) of this item	0..*	CharacterString	
Role	definitionReference	The link to the source of the definition	0..1	FC_DefinitionReference	

Table 5-A-3 — FC_DefinitionReference

Role Name	Name	Description	Mult	Type	Remarks
Class	FC_DefinitionReference	Class that links a data instance to the source of its definition	-	-	-
Attribute	sourceIdentifier	Information to locate the definition in the source document. The format of this information is specific to the structure of the source document	1	CharacterString	Includes online dictionaries or "vocabularies" used by dictionary-type codellist attributes
Role	definitionSource	The source of the definition	1	FC_DefinitionSource	

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<S100FC:name>Category of Landmark</S100FC:name>
<S100FC:definition>Classification of prominent cultural and natural features in the landscape.</S100FC:definition>
<S100FC:code>categoryOfLandmark</S100FC:code>
<S100FC:alias>CATLMK</S100FC:alias>
- <S100FC:definitionReference>
  <S100FC:sourceIdentifier>87</S100FC:sourceIdentifier>
  <S100FC:definitionSource ref="IHOREG" />
</S100FC:definitionReference>
<S100FC:valueType>enumeration</S100FC:valueType>
- <S100FC:listedValues>
- <S100FC:listedValue>
  <S100FC:label>Cairn</S100FC:label>
  <S100FC:definition>A mound of stones, usually conical or pyramidal, raised as a landmark or to designate a point of importance in surveying.</S100FC:definition>
  <S100FC:code>1</S100FC:code>
- <S100FC:definitionReference>
  <S100FC:sourceIdentifier>5</S100FC:sourceIdentifier>
  <S100FC:definitionSource ref="IHOREG" />
</S100FC:definitionReference>
</S100FC:listedValue>
- <S100FC:listedValue>
  <S100FC:label>Cemetery</S100FC:label>
  <S100FC:definition>A site and associated structures devoted to the burial of the dead.</S100FC:definition>
  <S100FC:code>2</S100FC:code>
- <S100FC:definitionReference>
  <S100FC:sourceIdentifier>251</S100FC:sourceIdentifier>
  <S100FC:definitionSource ref="IHOREG" />
</S100FC:definitionReference>
</S100FC:listedValue>
- <S100FC:listedValue>
  <S100FC:label>Chimney</S100FC:label>
  <S100FC:definition>A vertical structure containing a passage or flue for discharging smoke and gases of combustion.</S100FC:definition>
  <S100FC:code>3</S100FC:code>
- <S100FC:definitionReference>
  <S100FC:sourceIdentifier>252</S100FC:sourceIdentifier>
  <S100FC:definitionSource ref="IHOREG" />
</S100FC:definitionReference>
</S100FC:listedValue>
- <S100FC:listedValue>
  <S100FC:label>Dish Aerial</S100FC:label>
  <S100FC:definition>A parabolic aerial for the receipt and transmission of high frequency radio signals.</S100FC:definition>
  <S100FC:code>4</S100FC:code>
- <S100FC:definitionReference>
  <S100FC:sourceIdentifier>253</S100FC:sourceIdentifier>
  <S100FC:definitionSource ref="IHOREG" />
</S100FC:definitionReference>
</S100FC:listedValue>
- <S100FC:listedValue>

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IHO

DEFINITION REFERENCE IN THE IHO GI REGISTRY

International Hydrographic Organization

IHO International Hydrographic Organization

- HOME
- HELP&GUIDANCE
- GI REGISTERS
 - Concept Register
 - Data Dictionary Register
 - Portrayal Register
 - Meta Data Register
 - Product Specification
 - Documents
 - Producer Code Register
- MY TASKS
- PROPOSAL
- TEST BED
- Open Online Platform
- 2nd GI Registry (Old)
- Administration

Concept Register

Home / GI REGISTERS / Concept Register

Concept is a definition of object, information or phenomena of nature without any relation to other concept.

Status: Valid Category: Name

Concept Details

Name	Buoy New Danger Marking
Alias	
CamelCase	buoyNewDangerMarking
Definition	A new danger marking buoy is a buoy moored on or above a newly identified danger, such as a wreck, designed to provide a prominent (both visual and radio) and easily identifiable temporary (24-72 hours) first response.
Reference	5th Edition
Reference Source	IALA Maritime Buoyage System (NP 735) (Detail view)
Similarity to Source	Restyled
Remarks	

Management Details

Proposal Type	Addition	Submitting Org	IHO Secretariat
Successor	--	Date Proposed	2021-02-09
Predecessor	--	Date Accepted	2021-02-09
Proposed Change	New Item added to replace Buoy Emergency Wreck Marking		
Justification	New Danger Mark is the IALA recognised term for this type of buoy.		

DDR Binding Contents

Feature type	Go to detail page
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  - <S100FC:definitionReference>
    <S100FC:sourceIdentifier>5</S100FC:sourceIdentifier>
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  </S100FC:listedValue>
- <S100FC:listedValue>

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2-7.3 S100_RE_RegisterItem

The class S100_RE_RegisterItem carries the characteristics that are common to all types of registered items. Domain specific extensions may be added in the appropriate part of S-100; for example Part 2a – Feature Concept Dictionary.

Role Name	Name	Description	Mult	Data Type	Remarks
Class	S100_RE_RegisterItem		-	-	Class is abstract
Attribute	itemIdentifier	Each item has its own unique identifier in a Register	1	Integer	
Attribute	name	Succinct expression of the item concept it denotes	1	CharacterString	
Attribute	definition	Shall be a precise statement of the nature, properties, scope, or essential qualities of the concept as realized by the item.	1	CharacterString	
Attribute	remarks	Supplementary information	0..1	CharacterString	Remarks

- Attribute itemIdentifier is intended to provide a unique identifier for each item in a Register.
- Note Association name Reference – this has been implemented in the GI Registry.

Role Name	Name	Description	Mult	Data Type	Remarks
Attribute	itemStatus	The state in which a registered item exists	1	RE_ItemStatus	
Attribute	dateAccepted	The date a registered item became valid	0..1	Date	
Attribute	dateAmended	The date a registered item is clarified, superseded or retired	0..1	Date	
Association	register	The Register that contains the item	1	S100_RE_Register	
Association	referenceSource	The source information the item definition was taken from.	0..1	S100_RE_ReferenceSource	
Association	reference	Reference to other relevant standards or documents	0..*	S100_RE_Reference	For example INT1 or M4
Association	managmentInfo	Sets of information describing the management of the item in the Register	1..*	S100_RE_ManagmentInfo	



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RECOMMENDATIONS

International
Hydrographic
Organization

- S-100WG to consider the addition of the itemIdentifier attribute to the Class S100_FC_Item; or an alternative method in order to provide a unique identifier in Feature catalogues that provides a direct link to corresponding version of the registered item in the IHO GI Registry.



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ACTIONS REQUESTED OF S-100WG

International
Hydrographic
Organization

- **Discuss** the proposal to include the addition of the itemIdentifier attribute to the Class S100_FC_Item in S-100 Part 5 for Edition 5.0.0.
- **Initiate** action for the draft S-100 Edition 5.0.0 as appropriate.