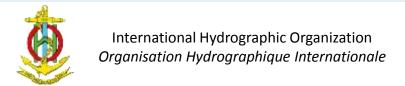
IHO GI Registry Workshop

S-100WG4 meeting

KHOA Presentation

Presented by KHOA





Contents

- S-100WG4_4.11_Proposal for a review of the S-100 Exchange Set Model(YB)
- S-100WG4_6.3_S-100 Infrastructure Development(YB)
- S-100WG4_6.8_S-100 Data Service via SMART Navigation Platform(YB)
- S-100WG4_6.9_Update on S-100 Portrayal Catalogue Builder(so)
- S-100WG4_6.11_Roles and Association Management by S-100FCB(YB)
- S-100WG4_6.12_Progress report on S-101 Feature Catalogue 1.0.0(YB)
- S-100WG4_8.3_Ship simulator based S-100 Test System(SO)
- S-100WG4_8.4_KHOA Test Bed Report(SO)

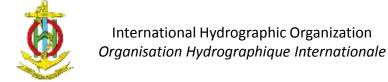




xx_Progress report on S-101 Feature Catalogue 1.0.0 (1/9)

 This paper is a report of S-101 FC creation following the S-101 product specification and DCEG 1.0.0 version after the S-100WG3 and TSM6 meeting.







xx_Progress report on S-101 Feature Catalogue 1.0.0 (2/9)

- Tracks of the S-101 FC draft version
 - 0.9.3 version S-101 FC (baseline2 DCEG edition)
 - ✓ S-100WG3
 - Draft 1.0.0 version 2018August (1st draft DCEG 1.0.0)
 - ✓ S-100TSM6
 - Draft 1.0.0 version 2018November (1st draft DCEG 1.0.0)
 - ✓ S-100 Ed 4.0.0 and S-101 Ed1.0.0
 - Final draft 1.0.0 version 2019Febuary (DCEG 1.0.0 edition_Dec2018)



xx_Progress report on S-101 Feature Catalogue 1.0.0 (3/9)

- Issues from S-101 FC creation
 - 1) Binding problem for All Geo Features

In the current S-101 DCEG document, the information type to be bound to All Geo Feature is defined as shown in Figure 1. However there is no text for binding information of geotype features to Text placement shown as Figure 2.

23 Cartographic Features									
23.1 Text placement									
Feature/Information associations									
Tuna	Association		Association Ends						
Type	Name	Class	Role	Mult	Class	Role	Mult		
Asso	Text Association	Text Placement	Identifies	0,1	All Geo Features	Positions	1,1		

22.2	22.2 Vessel traffic service area									
Featu	Feature/Information associations									
Type	Association			Asso	ciation Ends					
Туре	Name	Class	Role	Mult	Class	Role	Mult			
Asso	Additional Information	Vessel Traffic Service Area	Information provided for	1,*	Contact Details	Provides information	0,1			





6.12_Progress report on S-101 Feature Catalogue 1.0.0 (4/9)

- Issues from S-101 FC creation
 - 1) Binding problem for All Geo Features

Nautical information Feature/Information associations **Association Ends** Association Type Name Class Role Mult Class Role Mult All Geo Features Provides Additional Nautical Information Information Information information provided for

Feature/Information associations										
T	Association			Asso	ciation Ends					
Name Name	Class	Role	Mult	Class	Role	Mult				
Asso	Additional Information	Caution Area	Information provided for	1,*	Nautical Information	Provides information	0,1			
Asso	Caution Area Association	Caution Area	Consists of	1,*	Archipelagic Sea Lane, Traffic Separation Scheme	Component of	0,1			
Aggr	Fairway Auxiliary	Caution Area	Has auxiliary	1,*	Fairway	Auxiliary to	0,1			







xx_Progress report on S-101 Feature Catalogue 1.0.0 (5/9)

Sector lights

- Issues from S-101 FC creation
 - 2) Both way of Feature's feature association

Featu	re/Information a	ssociations								
Type	Association	Association Ends								
	Name	Class	Role	Mult	Class	Role	Mult 0,1			
Comp	Structure/Equip ment	Light All Around	Supports	0,*	Beacon Cardinal, Beacon Isolated Danger, Beacon Lateral, Beacon Special Purpose/General, Bridge, Building, Buoy Cardinal, Buoy Emergency Wreck Marking, Buoy Installation, Buoy Isolated Danger, Buoy Lateral, Buoy Safe Water, Buoy Safe Water, Buoy Special Purpose/General, Crane, Conveyor, Daymark, Fishing Facility, Floating Dock, Fortified Structure, Hulk, Landmark, Light All Around, Light Float, Light Vessel, Mooring/Warping Facility, Offshore Platform, Pile, Pipeline Overhead, Pontoon, Pylon/Bridge Support, Shoreline Construction, Silo/Tank, Span Fixed, Span Opening, Wind Turbine	Supported by	0,1			
Com p	Structure/Equip ment	Light All Around 1	Supported by	0,1	Fog Signal, Light All Around, Light Fog Detector, Retroreflector,	Supports	0,*			

	Association			Ass	ociation Ends		
Type	Name	Class	Role	Mult	Class	Role	Mult
Comp	Structure/Equip ment	Light Sectored	Supports	0,*	Beacon Cardinal, Beacon Isolated Facility, Floating Dock, Fortified	Supported by	0,1
					Landmark, Light All Around, Light		
					Light Vessel, Mooring/Warping Facility, Offshore Platform, Pile, Pipeline Overhead, Pontoon, Pylon/Bridge Support, Shoreline Construction, Silo/Tank, Span Fixed, Span Opening, Wind Turbine		
Com p	Structure/Equip ment	Light Sectored ²	Supported by	0,1	Fog Signal, Light Fog Detector, Retroreflector,	Supports	0,*
Aggr	Range System Aggregation	Light Sectored	Consists of	1,*	Range System	Component of	0,1
Aggr	Traffic Separation Scheme Aggregation	Light Sectored	Consists of	1,*	Traffic Separation Scheme	Component of	0,1
Asso	Aids to Navigation Association	Light Sectored	Consists of	1,*	Archipelagic Sea Lane, Bridge, Deep Water Route, Fairway System, Traffic Separation Scheme, Two-Way Route	Component of	0,1







xx_Progress report on S-101 Feature Catalogue 1.0.0 (6/9)

- Issues from S-101 FC creation
 - 3) Needs for S-100 FCB improvement

19.2 Featu	19.2 Light all around Feature/Information associations										
	Association			Ass	ociation Ends						
Type	Name	Class	Role	Mult	Class	Role	Mult				
Aggr	Traffic Separation Scheme Aggregation	Light All Around	Consists of	1,*	Traffic Separation Scheme	Component of	0,1				
Asso	Aids to Navigation Association	Light All Around	Consists of	1,*	Archipelagic Sea Lane, Bridge, Deep Water Route, Fairway System, Traffic Separation Scheme, Two-Way Route	Component of	0,1				







xx_Progress report on S-101 Feature Catalogue 1.0.0 (7/9)

- Issues from S-101 FC creation
 - 3) Needs for DCEG document structure revise
 - 24 Information types
 - 24.1 Contact details

Featu	Feature/Information associations									
Tymo	Association		Association Ends							
Туре	Name	Class	Role	Mult	Class	Role	Mult 1,*			
Asso	Additional Information	Contact Details	Provides information	0,1	Fog Signal, Pilot Boarding Place, Vessel Traffic Service Area	Information provided for	1,*			



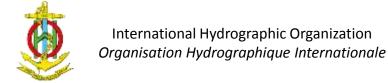




xx_Progress report on S-101 Feature Catalogue 1.0.0 (8/9)

- Discussion & recommendation
 - 1) Binding problem for All Geo Features
 - 2) Both way of Feature's feature association
 - 3) Needs for S-100 FCB improvement
 - 4) Needs for DCEG document structure revise







xx_Progress report on S-101 Feature Catalogue 1.0.0 (9/9)

- Action Required of S-100WG4
 - a. Note this paper
 - b. Request to discuss the issues and make a decision for their way forward.



