

IHO GI Registry Workshop

S-100WG4 meeting

# KHOA Presentation

Presented by KHOA



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- 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)
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## xx\_Progress report on S-101 Feature Catalogue 1.0.0 (1/9)

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- 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)

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- 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 (1<sup>st</sup> draft DCEG 1.0.0)
    - ✓ S-100TSM6
  - Draft 1.0.0 version 2018November (1<sup>st</sup> draft DCEG 1.0.0)
    - ✓ S-100 Ed 4.0.0 and S-101 Ed1.0.0
  - Final draft 1.0.0 version 2019February (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 geo-type features to Text placement shown as Figure 2.

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

22.2 Vessel traffic service area							
<u>Feature/Information associations</u>							
Type	Association Name	Association Ends					
		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

## 24.4 Nautical information

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
Asso	Additional Information	Nautical Information	Provides information	0,1	All Geo Features	Information provided for	1,*

## 16.10 Caution area

Feature/Information associations							
Type	Association Name	Association Ends					
		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)

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

19.2 Light all around							
Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
Comp	Structure/Equipment	Light All Around	Supports	0,*	Beacon Cardinal, Beacon Isolated Danger, Beacon Lateral, Beacon Safe Water, Beacon Special Purpose/General, Bridge, Building, Buoy Cardinal, Buoy Emergency Wreck Marking, Buoy Installation, Buoy Isolated Danger, Buoy Lateral, 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
Comp	Structure/Equipment	Light All Around <sup>1</sup>	Supported by	0,1	Fog Signal, Light All Around, Light Fog Detector, Retroreflector,	Supports	0,*

  

19.3 Sector lights							
Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
Comp	Structure/Equipment	Light Sectored	Supports	0,*	Beacon Cardinal, Beacon Isolated Facility, Floating Dock, Fortified Structure, Hulk, Landmark, Light All Around, Light Sectored, 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
Comp	Structure/Equipment	Light Sectored <sup>2</sup>	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 Light all around							
<u>Feature/Information associations</u>							
Type	Association Name	Association Ends					
		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							
<u>Feature/Information associations</u>							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
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)

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- 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)

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

