Hydrographic Services and Standards Committee

Progress report on S-100 DCEG builder

KHOA

Presented by Yong BAEK

Background

- Inconsistency between DCEG and FC
 - DCEG and S-101 FC comparison (TSMAD29, 2015)
- Improving consistency
 - Report "a method of improving consistency.." (TSMAD29, 2015)
 - Concept of DCEG editor and Prototype Development (S-100WG1, 2016)
 - ➤ Postpone the development of DCEG builder because of priority

Background

Request for a DCEG builder

NIPWG request (S-100WG2, 2016);

"The development of the S-123 DCEG... The current way to prepare the feature dictionary part has been considered as critical. <u>The NIPWG noted with interest</u> <u>the KHOA initiative to develop a tool which automatically produces the DCEG</u> <u>feature catalogue based on the Feature Catalogue Builder</u> ..."

Data Classification and Encoding Guide (DCEG)

- The data product specification shall provide information on <u>how the data is to</u> <u>be captured</u>. This should be as <u>detailed and specific as necessary</u>. The product specification shall include this information for each identified scope.
- The product specification includes the collection criteria for mapping real world objects to the conceptual objects of the dataset... (S-100 3.0.0, 11-9)

Feature Catalogue

 A catalogue containing definitions and descriptions of the feature types, feature attributes, and feature associations occurring in one or more sets of geographic data

• DCEG

Real World			s-101 Geo Feature: Dock area (DOCARE) Primitives: Surface						
100	Paper	Paper Chart Symbol			ECDIS Symbol				
S-101 Attribute		8-57 Allov Acronym Valu		able Encoding Ty		Multiplicity			
Category of dock		(GATDOC)	1: tidal 2: non-tida	1: tidal 2: non-tidal (wet dock)		0,1			
Condition		(CONDTN)	2 : ruined 3 : under n	1 : under construction 2 : ruined 3 : under reclamation 5 : planned construction		0,1			
Feature name					С	0,"			
Display name					(S) BO	0,1			
Language			ISO 639-3	ISO 639-3		0,1			
Name		(OBJNAM) (NOBJNM)			(S) TE	1,1			
Fixed date range					С	0,1			
Date end		(DATEND)	ISO 8601:	ISO 8601: 2004		0,1			
Date start		(DATSTA)	ISO 8601:	ISO 8601: 2004		0,1			
Horizontal diearance fixed					C	0,1			
Horizontal clearance value		(HORCLR)				1,1			
Horizontal distance uncertainty		(HORACC)			(S) RE	0,1			
Horizontal clearance length					RE	0,1			
Horizontal clearance width					RE	0,1			
Maximum permitted draught					RE	0,1			
Reported date		(SORDAT)	ISO 8601: 2004		TD	0,1			
Status		(STATUS)	1 : perman 4 : not in u 6 : reserve 8 : private 14 : public	se	EN	0,*			

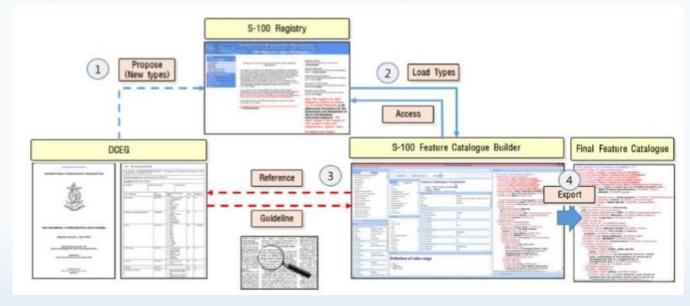
Part 1
Feature Catalogue

Part 2
Encoding guide

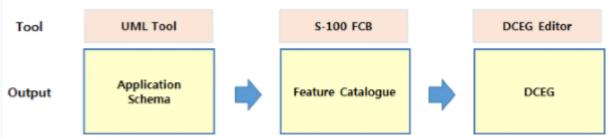


Harmonization Issue between DCEG and FC

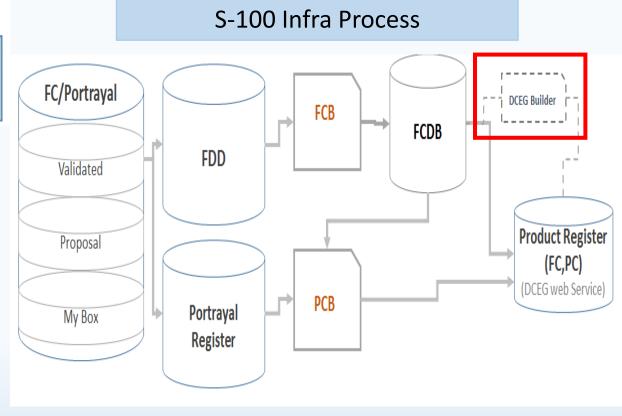
As DCEG and Feature Catalogue were made from different sources, it is natural
that there may be a few inconsistencies between the two items. As the current
FC creation process is to input and bind data by hand using S-101 FCB after
cognitive processes of DCEG, the output could include human errors

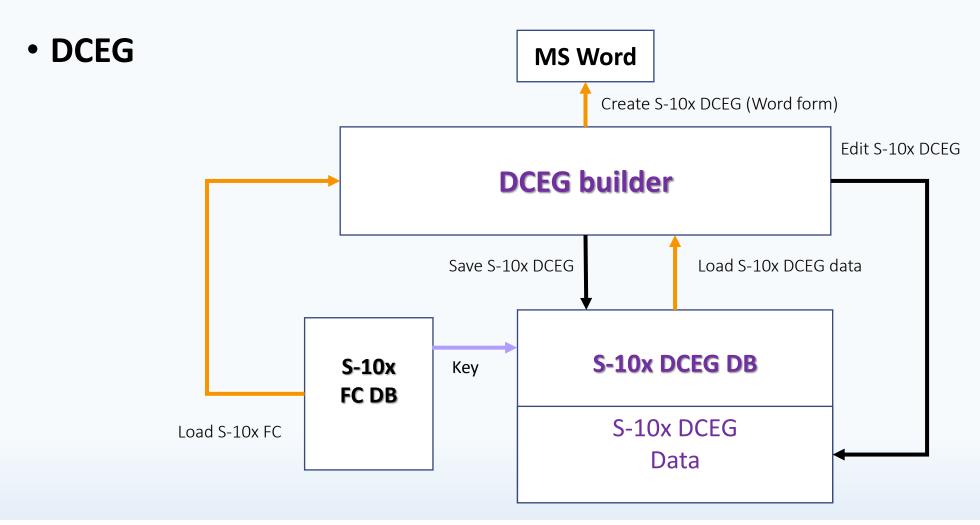


• DCEG



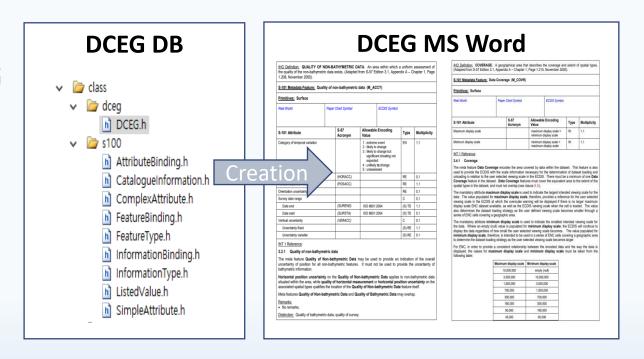
Process of the DCEG builder





DCEG functions

- Load Feature Catalogue (FC) from FC DB
- Save/Open DCEG DB
- Edit / Delete DCEG in DCEG DB
- Comparison between FC and DCEG
- Comments
- Export as MS word format
- etc ...



Plans

S-100 DCEG Builder

- Develop DCEG builder application and set up DB (Jan. 2018)
- Test operation (Jan. Mar. 2018)
- Open the DCEG builder (TBD)

Action requested of HSSC

- **Note** the report.
- Request to provide recommendations and feedbacks if any.
- Endorse the S-100 DCEG builder as S-100 Infrastructure