

Creation of the S-401 Feature Catalog

Inland ECDIS Harmonization Group

New Orleans, 22-24/10/19



Feature Catalog Builder v2.1.0

- Available on the IHO Registry
- New version sent by Yong Baek end of August with small bugfixes
- Characteristics
 - More stable when editing/saving a FC and reopening it
 - Provided with FCD data of 190409 and the S-101 FC
 - No direct connection to the Registry

FCB v2.1.0 - GUI

5-100 FCB 2.1.0, Powered by KHQA

File(F) Tools(T) Options(O) Window(W) Help(H)

Binding List - SimpleAttribute from FCB

beaconShape
buildingShape
buryShape
buredDepth
callSign
categoryOfAirportAirfield
categoryOfAnchorage
categoryOfBridge
categoryOfBuiltUpArea
categoryOfCable
categoryOfCanal
categoryOfCardinalMark
categoryOfCheckpoint
categoryOfCoastline
categoryOfConveyor
categoryOfCrane
categoryOfDam
categoryOfDistanceMark
categoryOfDock

Simple Attribute Complex Attribute Feature Information Code List

Property - SimpleAttribute Type

SimpleAttribute Type Information

proposal status	final
domain	0
name	Category of bridge
definition	Classification of structures ...
code	categoryOfBridge
alias	CATBRG
valueType	enumeration

listedValue

label	fixed bridge
definition	a bridge having permanen...
code	1

listedValue

label	opening bridge
definition	a bridge that is closed whe...
code	2

listedValue

label	swing bridge
definition	a movable bridge (or span ...
code	3

Add Remove Modify

Feature List - FeatureType

name Bridge

definition A structure erected over a depression or a...

code Bridge

superType

subTypes

subType

isAbstract false

attributeBinding

attribute ref	categoryOfBridge
permittedValues	1,2,3,4,5,6,7,8,9,10,11,12
sequential	false
multiplicity	
lower	0
infinite	false
upper	1

attributeBinding

attribute ref	colour
permittedValues	1,2,3,4,5,6,7,8,9,10,11,12,13
sequential	true
multiplicity	
lower	0
infinite	true

attributeBinding

attribute ref	colourPattern
permittedValues	1,2,3,4,5,6
sequential	false
multiplicity	
lower	0
infinite	false
upper	1

attributeBinding

attribute ref	condition
permittedValues	1,2,5
sequential	false
multiplicity	
lower	0

Generated List

☐ BuiltUpArea
☐ Building
☐ AirportAirfield
☐ Runway
☐ Bridge
☐ SpanFixed
☐ SpanOpening
☐ Conveyor
☐ CableOverhead
☐ PipelineOverhead
☐ PylonBridgeSupport
☐ FenceWall
☐ Railway
☐ Road

Information

Current Local FCB DB Information

Last update date	2019-04-26
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Current Feature Catalogue Information

Source	xml
Name	S-101
Version	1.0.0

```
<?xml version="1.0" encoding="utf-8" ?>
<S100FC:S100_FC_FeatureCatalogue
  xmlns:S100FC="http://www.who.int/S100FC"
  xmlns:S100Base="http://www.who.int/S100Base"
  xmlns:S100CI="http://www.who.int/S100CI"
  xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:S100FD="http://www.who.int/S100FD"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://www.who.int/S100FC S100FC.xsd">
  <S100FC:name>S-101</S100FC:name>
  <S100FC:scope>Ocean, Coastal, Ports and Harbors. Excludes Inland
  waters. Supports QualityOfBathymetricData and 2015 updates to
  FC model.</S100FC:scope>
  <S100FC:fieldOfApplication>Marine
  Navigation</S100FC:fieldOfApplication>
  <S100FC:versionNumber>1.0.0</S100FC:versionNumber>
  <S100FC:versionDate>2019-04-09</S100FC:versionDate>
  <S100FC:producer>
  <S100CI:role>pointOfContact</S100CI:role>
  <S100CI:party>
  <S100CI:CI_Organisation>
  <S100CI:name>International Hydrographic
  Organization</S100CI:name>
  <S100CI:contactInfo>
  <S100CI:address>
  <S100CI:administrativeArea>4b quai Antonie
  1er</S100CI:administrativeArea>
  <S100CI:country>Monaco</S100CI:country>
  <S100CI:electronicMailAddress>info@iho.int</S100CI:electronicMail
  </S100CI:address>
  <S100CI:onlineResource>
  <S100CI:linkage>www.who.int</S100CI:linkage>
  </S100CI:onlineResource>
  </S100CI:contactInfo>
  </S100CI:CI_Organisation>
  </S100CI:party>
  </S100FC:producer>
  <S100FC:classification>unclassified</S100FC:classification>
  </S100FC:S100_FC_SimpleAttributes>
```

Preview

S-101 FC / IENC FC

- Different definitions
- Attributes/Object missing
- Missing values for attributes
- Simple attribute(s) replaced by complex attributes
- Feature bindings

Methodology

- Starting points
 - S-101 FC
 - Work Document: *IENC FC 2.4.0 – S-57 Features compared to S-101*
- Next steps
 - Check the consistency of this document with the actual S-101 FC
 - Adapt the S-101 FC
 - Modify the Maritime Features based on the work document
 - Add Inland Features