S-101 Electronic Navigational Chart Project Team

Status of S-101 FC update

S-101PT5 / KHOA

Presented by KHOA

Introduction

S-101 FC 1.0.0 progress of KHOA

- S-101 FC 0.9.1 based on S-101 DCEG(ver. July 2018) TSM6, 2018
- S-101 FC 0.9.2 based on S-101 DCEG(ver. November 2018) S-100WG4, 2019
- S-101 FC 1.0.0 based on S-101 DCEG(ver. 1.0.0 December 2018) S-101PT4, 2019

New S-101 FC (1.0.1) based on 3rd generation S-100 GI Registry

- New version S-101 FC was created following S-100 GI Registry's latest Register DB
- Needs an update for support S-101 DCEG 1.1.0 official release after S-101PT5

Updated information

- Consistency with GI Registry
 - Clarification of name and definition
 - Clarification of label(name of listed value)

Before - S-101 FC 1.0.0 (Apr. 2019)

After - S-101 FC 1.0.1 (Sep. 2020)

```
▼<S100FC:S100 FC SimpleAttribute>
                                                                                ▼<S100FC:S100 EC SimpleAttribute>
    <S100FC:name>Buoy shape</S100FC:name>
                                                                                     <S100FC:name>Buov Shape</S100FC:name>
                                                                                     <S100FC:definition>The principal shape and/or design of a buoy.</ri>
    <S100FC:def nition>The shape a buoy exhibits/S100FC:defi
    <S100FC:code>buoyShape</S100FC:code>
                                                                                     <S100FC:code>buoyShape</S100FC:code>
    <S100FC:remarks>The principal shapes are those recommende
                                                                                     <S100FC:remarks>The principal shapes are those recommended in the Internatio
                                                                                     <S100FC:alias>BOYSHP</S100FC:alias>
    <S100FC:alias>BOYSHP</S100FC:alias>
  νο τους στιναταστιγρογισπαιιισται τοπινή στους στιναταστιγρογ
                                                                                        ▼<S100FC: ListedValues>
▼<S100FC: ListedValues>
  ▼<S100FC:listedValue>
                                                                                             <S100FC: labe >Based on a System of Fixed Marks </S100FC: label>
                                                                                                           a recommended track, range or leading line), which
     <S100FC:labe >based on a system of fixed marks
                                                        100FC: label>
                                                                                             features, which may carry lights and/or top-marks. The structures/features are positioned so that
     <S100FC:defilition>a straight route (known as a lecommended track, range or I€
                                                                                             (Adapted from International Association of Lighthouse Authorities - IALA Aids to Navigation Guide
     features, which may carry lights and/or top-marks. The structures/features are
                                                                                             topmark, and a specified bearing which can be followed with safety. (S-57 Edition 3.1, Appendix /
                                                                                             <S100FC:code>1</S100FC:code>
     </S100FC:definition>
                                                                                            ▼<S100FC:definitionReference>
     <S100FC:code>1</S100FC:code>
                                                                                               <S100FC:sourceIdentifier>1518</S100FC:sourceIdentifier>
   </S100FC: ListedValue>
                                                                                               <$100FC:definitionSource>IHO:DDR</$100FC:definitionSource>
                                                                                             </S100FC:definitionReference>
  ▼<S100FC:listedValue>
                                                                                           </S100FC: ListedValue>
     <S100FC:label>not based on a system of fixed marks/S100FC:label>
                                                    <del>ended t</del>rack or preferred route) i
                                                                                             <S100FC:label>Not Based on a System of Fixed Marks</S100FC:label>
                                                                                                                                        track or preferred route) which is not based of
     <S100FC:code>2</S100FC:code>
                                                                                             <S100FC:code>2</S100FC:code>
   </S100FC: ListedValue>
                                                                                            ▼<S100FC:definitionReference>
 </S100FC:listedValues>
                                                                                               <S100FC:sourceIdentifier>1519</S100FC:sourceIdentifier>
</S100FC:S100_FC_SimpleAttribute>
```



Updated information

Addition of definition reference to track version information

Before - S-101 FC 1.0.0 (Apr. 2019)

```
▼<S100FC:S100 FC SimpleAttribute>
   <S100FC:name>Category of recommended track</S100FC:name>
   <$100FC:definition>Classification of track based on defining navigational marks</$100FC:definition>
   <S100FC:code>categoryOfRecommendedTrack</S100FC:code>
   <S100FC:alias>CATTRK</S100FC:alias>
   <S100FC:valueType>enumeration</S100FC:valueType>
  ▼<S100FC:listedValues>
    ▼<S100FC: ListedValue>
       <S100FC:label>based on a system of fixed marks</S100FC:label>
       <$100FC:definition>a straight route (known as a recommended track, range or leading line), which
       features, which may carry lights and/or top-marks. The structures/features are positioned so tha
       </S100FC:definition>
       <S100FC:code>1</S100FC:code>
     </S100FC: ListedValue>
    ▼<S100FC: ListedValue>
       <S100FC:label>not based on a system of fixed marks</S100FC:label>
       <$100FC:definition>a route (known as a recommended track or preferred route) which is not based
       <S100FC:code>2</S100FC:code>
     </S100FC: ListedValue>
   </S100FC:listedValues>
 </S100FC:S100_FC_SimpleAttribute>
```

After - S-101 FC 1.0.1 (Sep. 2020)

```
▼<S100FC:S100 FC SimpleAttribute>
   <S100FC:name>Category of Recommended Track</S100FC:name>
   <$100FC:definition>Classification of track based on defining navigational marks.</$100FC:definition>
   <S100FC:code>categoryOfRecommendedTrack</S100FC:code>
 ▼<S100FC:definitionReference>
     <S100FC:sourceIdentifier>273</S100FC:sourceIdentifier>
     <S100FC:definitionSource>IHO:DDR</S100FC:definitionSource>
   </S100FC:definitionReference>
   <S100FC:valueType>enumeration</S100FC:valueType>
  ▼<S100FC: ListedValues>
   ▼<S100FC: ListedValue>
       <S100FC: label>Based on a System of Fixed Marks</S100FC: label>
       <$100FC:definition>A straight route (known as a recommended track, range or leading line), which
       features, which may carry lights and/or top-marks. The structures/features are positioned so that
       (Adapted from International Association of Lighthouse Authorities - IALA Aids to Navigation Guide
       topmark, and a specified bearing which can be followed with safety. (S-57 Edition 3.1, Appendix A
       <$100EC:code>1</$100EC:code>
      ▼<S100FC:definitionReference>
         <S100FC:sourceIdentifier>1518</S100FC:sourceIdentifier>
         <S100FC:definitionSource>IHO:DDR</S100FC:definitionSource>
       </S100FC:definitionReference>
    ▼<S100FC: listedValue>
       <S100FC: label>Not Based on a System of Fixed Marks</S100FC: label>
       <$100EC:definition>A route (known as a recommended track or preferred route) which is not based or
       <$100EC:code>2</$100EC:code>
      ▼<S100FC:definitionReference>
         <S100FC:sourceIdentifier>1519</S100FC:sourceIdentifier>
         <S100FC:definitionSource>IHO:DDR</S100FC:definitionSource>
       </S100FC:definitionReference>
   </S100FC:listedValues>
 </S100FC:S100 FC SimpleAttribute>
```

Updated information

Addition of Text Placement to all Geo-features

Before - S-101 FC 1.0.0 (Apr. 2019)

```
▼<S100FC:S100_FC_FeatureType isAbstract="false">
   <S100FC:name>Coastline</S100FC:name>
   <$100FC:definition>The line where shore and water meet. Although the terminology
   </S100FC:definition>
   <S100FC:code>Coastline</S100FC:code>
   <S100FC:alias>COALNE</S100FC:alias>
 ▼<S100FC:attributeBinding sequential="false">
   ▼<S100FC:multiplicity>
       <S100Base: lower>0</S100Base: lower>
       <$100Base:upper xsi:nil="false" infinite="false">1</$100Base:upper>
     </S100FC:multiplicity>
   ▼<S100FC:permittedValues>
       <S100FC:value>1</S100FC:value>
       <S100FC:value>2</S100FC:value>
       <$100FC:value>6</$100FC:value>
       <$100FC:value>7</$100FC:value>
       <$100FC: value>8</$100FC: value>
       <$100FC:value>10</$100FC:value>
     </S100FC:permittedValues>
     <S100FC:attribute ref="categoryOfCoastline"/>
   </S100FC:attributeBinding>
```

After - S-101 FC 1.0.1 (Sep. 2020)

```
▼<S100FC:S100_FC_FeatureType isAbstract="false">
   <S100FC:name>Coastline</S100FC:name>
   <S100FC:definition>The line where shore and water meet. Shoreline and coastli
   <S100FC:code>Coastline</S100FC:code>
   <S100FC:alias>COALNE</S100FC:alias>
  ▶ <S100FC:definitionReference>
   </S100FC:definitionReference>
  ▶ <S100FC:attributeBinding sequential="false">
   </S100FC:attributeBinding>
   <S100FC: featureUseType>geographic</S100FC: featureUseType>
  ▼<S100FC:featureBinding roleType="association">
   ▼<S100FC:multiplicity>
       <S100Base:lower>1</S100Base:lower>
       <$100Base:upper xsi:nil="false" infinite="false">1</$100Base:upper>
     </S100FC:multiplicity>
     <S100FC:association ref="TextAssociation"/>
     <S100FC:role ref="identifies"/>
     <S100FC:featureType ref="TextPlacement"/>
   </S100FC:featureBinding>
   <S100FC:permittedPrimitives>curve</S100FC:permittedPrimitives>
```

Conclusion

KHOA is planing to:

- a. Update S-101 FC 1.0.1 following S-101 DCEG 1.1.0 (end of Sep.)
- b. Release S-101 FC 1.1.0 to S-101PT members (end of Oct.)

The S-101PT5 is invited to:

- a. Note this paper
- b. Discuss the S-101 FC issues reported by this paper
- c. Discuss publication plan of S-101 FC 1.0.1 and 1.1.0