

# Report of S-125 Development



14 Sep. 2022

Sewoong OH (KRISO)

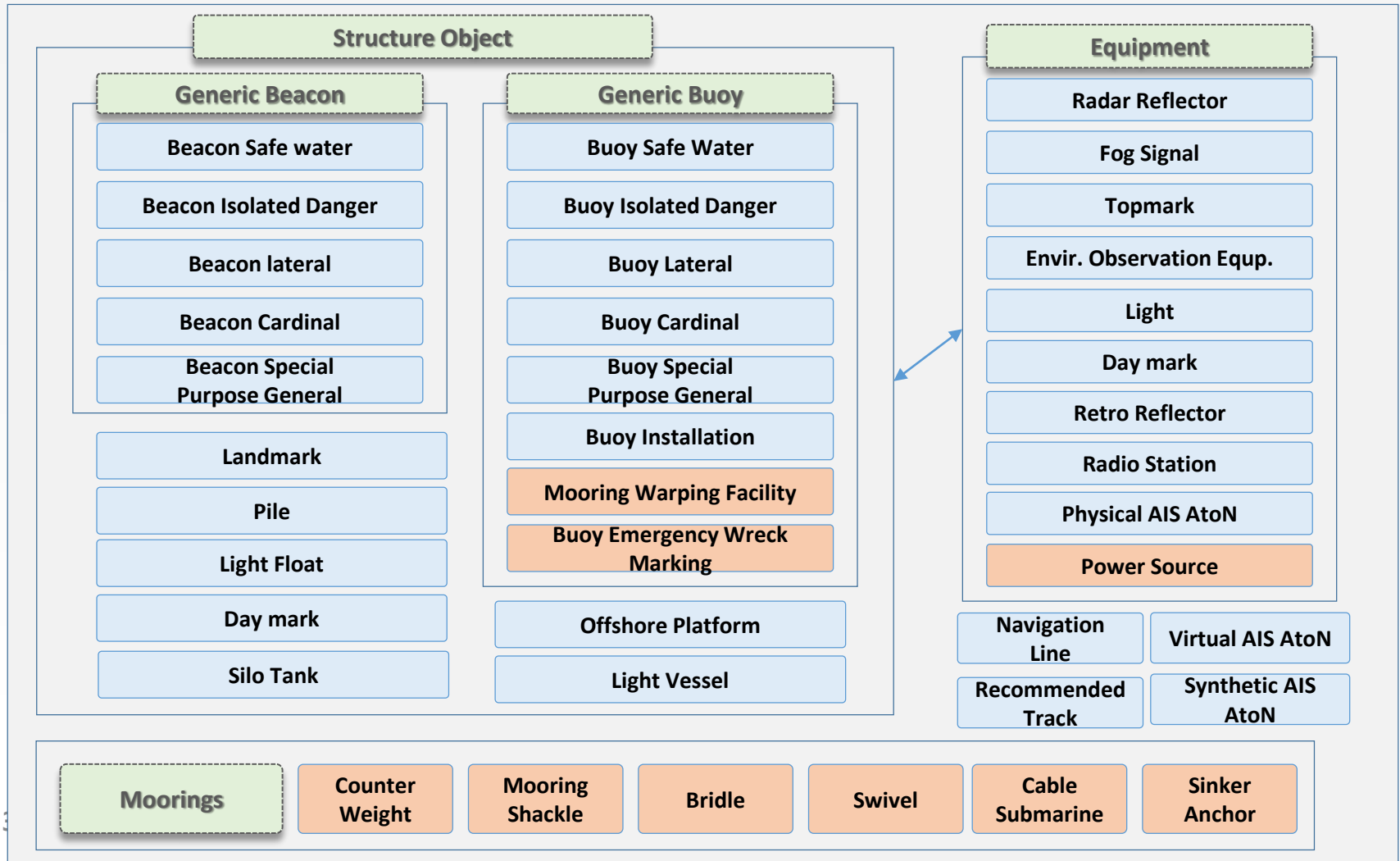
# 01 | S-125 development

## ▪ Related meetings

- ARM15 (11 ~ 25 March, 2022)
  - Application schema was agreed for testing purpose
  - Very draft main document was introduced
- NIPWG VTC01 in 2022 (22 March, 2022)
  - Vision and Aim was introduced to the meeting
  - Explain the S-125 application schema
  - Comment on changing the data type of change details (from enumeration to codelist)
  - Proposed symbol on Aton changes
- NIPWG VTC02 in 2022 (7-8 June, 2022)
  - Report the name change form MNS to Marine Aton
  - Joint IALA/IHO Workshop on S-100/S-200 development and portrayal
  - Data flow of S-201/S-125/S-124

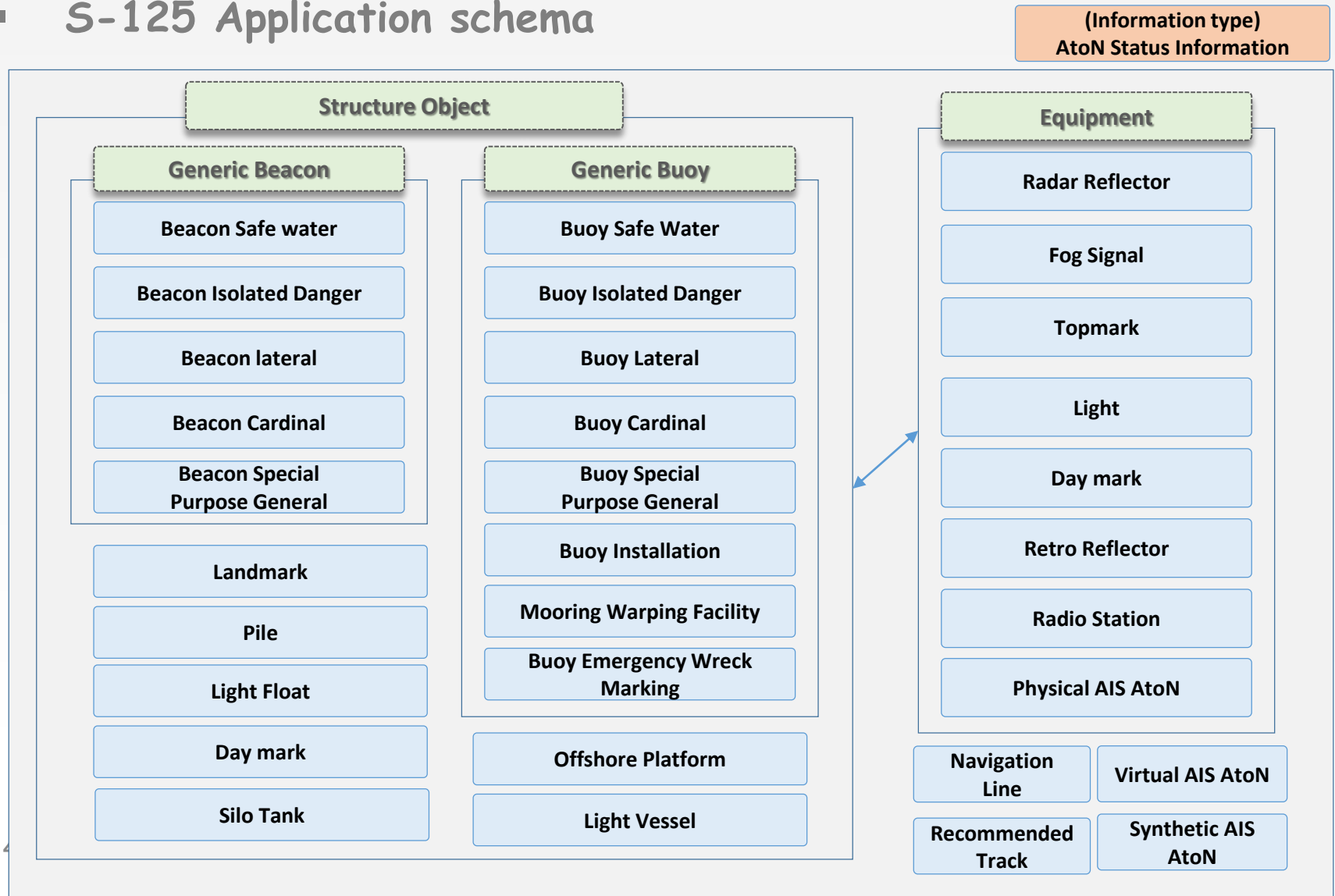
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## ■ S-201 Application schema



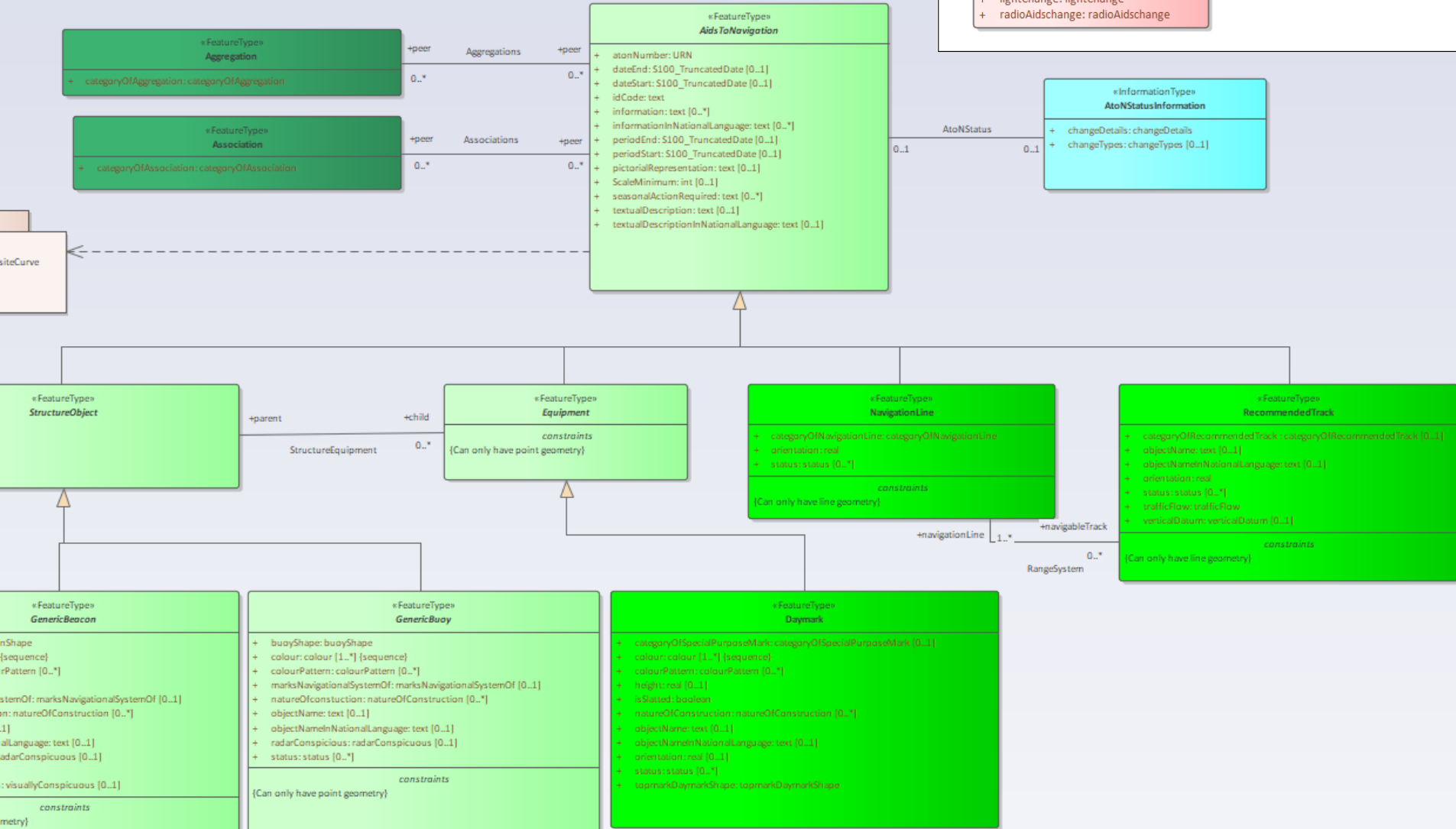
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## ■ S-125 Application schema



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## UML Diagram



class complex attributes

«ComplexAttributeType»  
**changedetails**

«simpleAttributeType»

- + atonCommissioning: atonCommissioning
- + atonRemoval: atonRemoval
- + atonReplacement: atonReplacement
- + beaconChange: beaconChange
- + buoyChange: buoyChange [0..1]
- + fogSignals: fogSignals
- + leadingLightsChange: leadingLightsChange
- + lightChange: lightChange
- + radioAidschange: radioAidschange

«Enumeration»  
**Enumerations and CodeLists::changeTypes**

- Temporary changes
- Proposed changes
- Advance notice of changes
- Discrepancy

«InformationType»  
**AtoNStatusInformation**

- + changeDetails: changeDetails
- + changeTypes: changeTypes [0..1]

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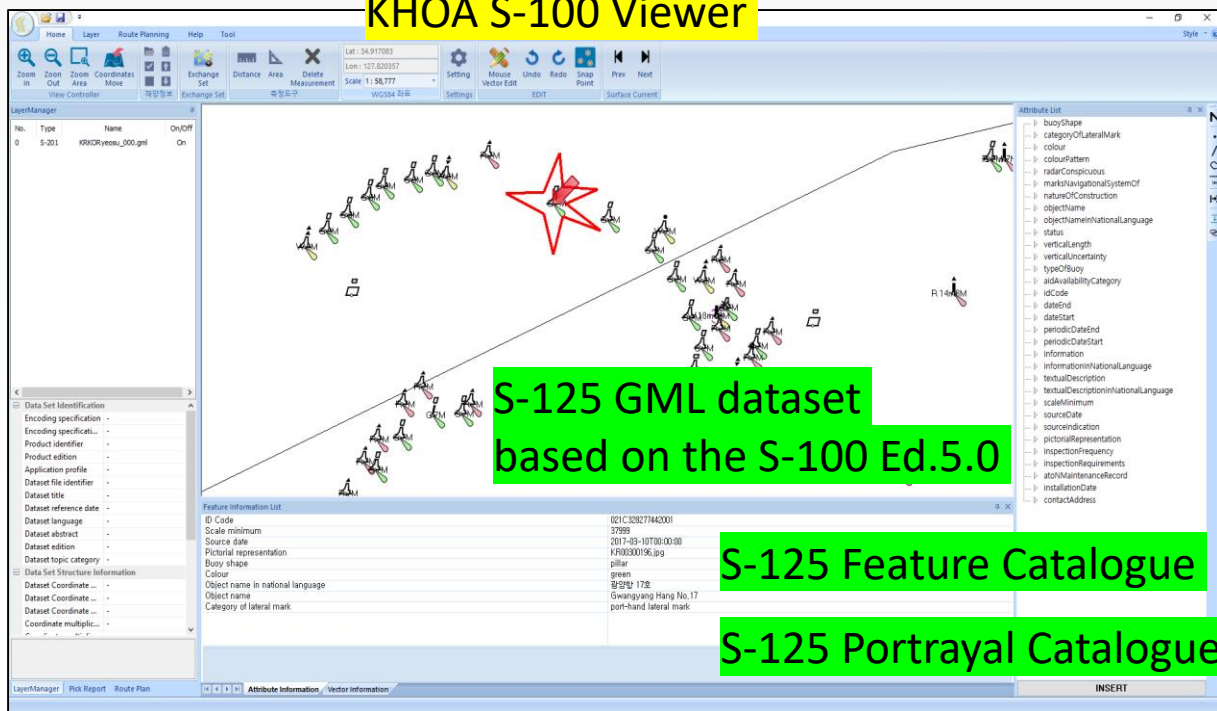
- **Major progress**
  - S-125 Application schema is inline with the S-201 except Aton maintenance and moorings feature types
  - Main document was refined considering other S-10X PS
  - In order to meet the S-100 Ed. 5.0, FC and GML Schema of S-201 was created with CCG and CARIS support
  - S-125 FC and GML Schema has been created with modifying the S-201 FC and GML Schema
  - Joint S-100/S-200 workshop discussed the S-125 portrayal catalogue
- **Following plan**
  - Refined main document and other components will be submitted to the ARM16
  - S-125 portrayal catalogue will be drafted
  - ARM16 reviews the S-125
  - After ARM16, the S-125 packages will be provided to NIPWG for comments

# 01 S-125 development

## ■ S-125 Portrayal

- S-201/S-125 TG will review the proposed symbol in ARM15
- Discuss which symbol is appropriate for AtoN status
- KHOA S-100 Viewer / SVG editor will be used to test and edit the S-100 Symbol SVG files
- S-125 Portrayal catalogue will be drafted and agreed in the ARM16

KHOA S-100 Viewer



Proposed symbol of AtoN Status

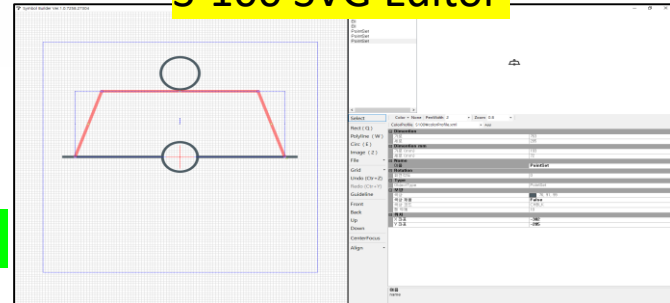
«Enumeration» changeTypes

- Temporary changes
- Proposed changes
- Advance notice of changes
- Discrepancy

Change Types

1. Temporary changes : T
2. Proposed changes : P
3. Advance notice of change : A
4. Discrepancy : D

S-100 SVG Editor



## 02 Workshop discussion

- **Purpose of S-125 data**
  - to be updated more frequently than the S-101 dataset
  - As there are differences in the frequency of when the S-101 dataset can be issued, which is to the best of the ability of the provider,
  - the S-125 dataset should be updated at a frequency necessary to support navigational safety
  - S-125 should include, at a minimum, the same AtoN data contained in the S-101 Product Specification
  - 4 identified statuses (Discrepancy, Temporary Change, Proposed Change, and Advanced Notice of Change)
  - S-125 data has benefits like AtoN status and frequent updates than S-101 ENC



## 02 Workshop discussion

- **Interoperability between S-125 and S-101**
  - S-125 data merely as an overlay was considered a big enough first step to implement instead of data replacement
  - As an option for replacement of data, portrayal of only the status data, and not replacing nor duplicating actual existing AtoN symbology was generally accepted
  - the actual dataset could still contain a full set of AtoN data, although only status would need to be portrayed on ECDIS
  - The status indicator symbol would merely be flagging and not obscuring the ENC symbol
  - Interoperability could be enhanced at a later stage
  - It was concluded that only the S-125 status change symbology and pick reports need to be included by overlay/interleaving

# THANK YOU

