7Cs Analyzer Edition 4.0

New Generation for Validation of S-57 and S-100/S-101 data



Chart World Group



7Cs Analyzer

- 7Cs Analyzer is an application for the validation of S-57 and S-100 datasets.
- It helps ensure that datasets are compliant with the relevant S-57 and S-100 product specifications and standards.





General Information

- 7Cs Analyzer based on Nautilus is S-100 ready
- Development from scratch (since 2014)
- Considered to be an ENC Analyzer Upgrade
- First official release Q1 2019
- Support customers get Base Module (S-57) as usual
- New licenses preferrably as annual subscription



Supported Standards/Products

- Products
 - ENC (S-57, S-101),
 - IENC (S-57, 2.0, 2.1, 2.2, 2.3, 2.4)
- Validation Standards
 - S-58 ENC Validation Checks Ed. 6.1.0 (Sept. 2018)
 - Recommended Validation Checks for Inland ENC
- Related Standards
 - S-57, Use of the Object Catalogue
 - S-100, S-101

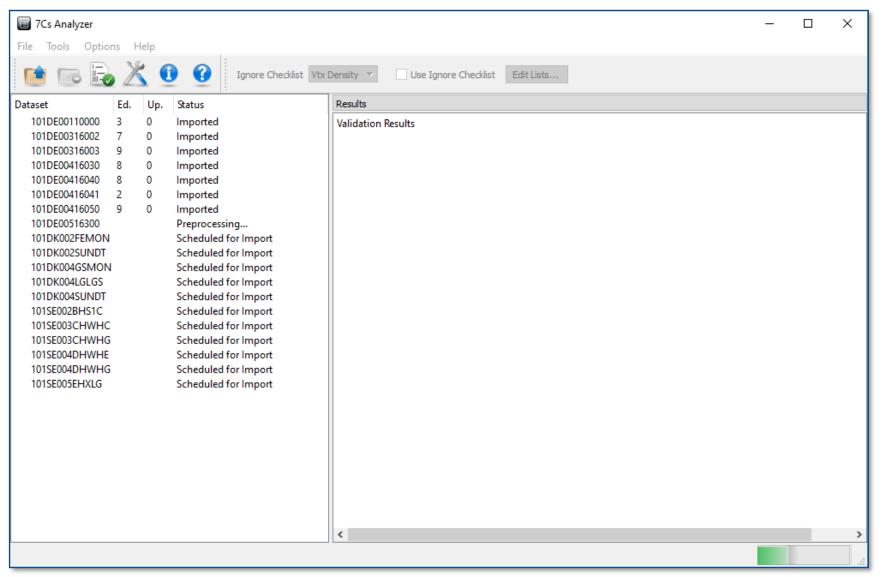


Highlights

- Validation of S-57 and S-101 nautical chart products
- Compliant with latest Ed. of IHO S-58 ENC Validation Checks
- Compliant with Recomm. Inland ENC Validation Checks 2.4
- Integrated command line mode for batch processing
- Advanced editor for definition of checks users want to ignore
- Simplified validation log output
- Improved consistency in check naming and log messages

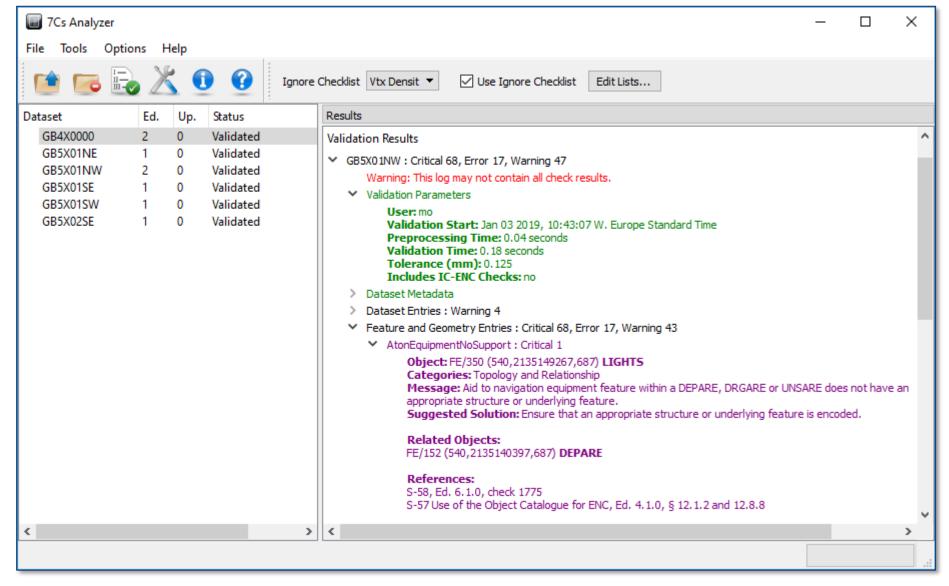


The Graphical User Interface



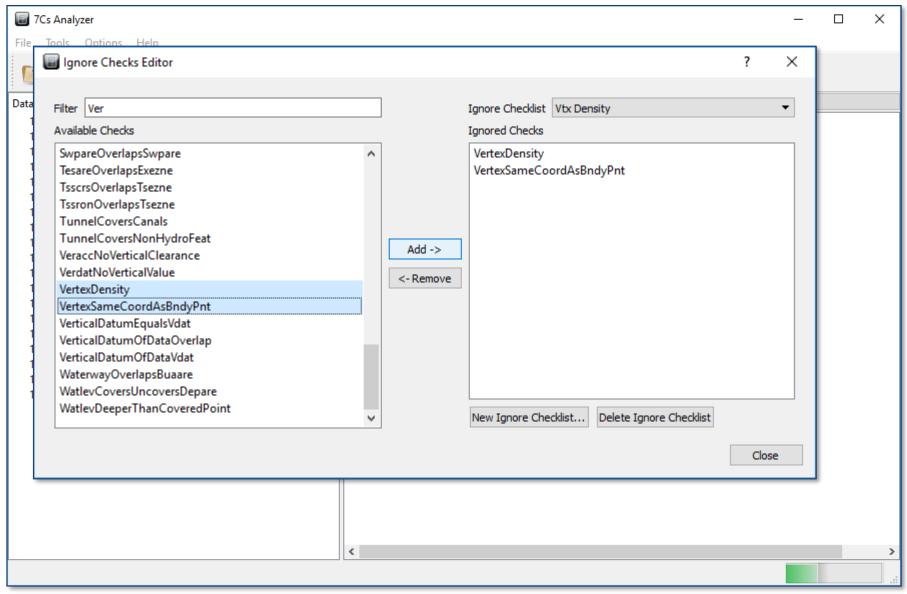


The Graphical User Interface



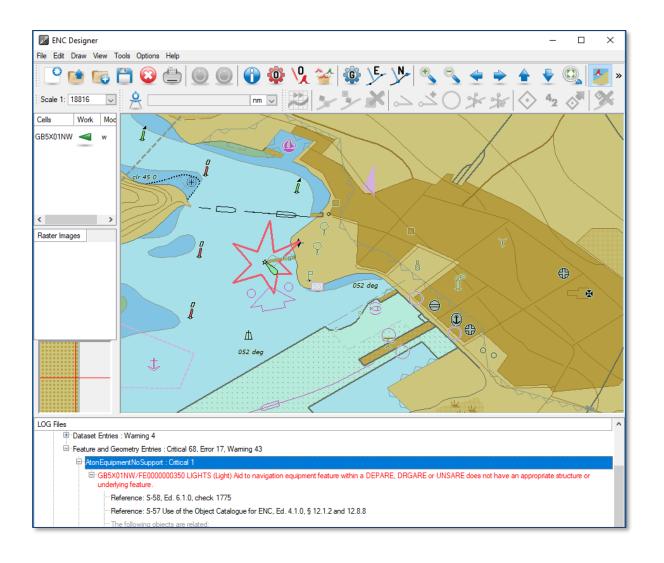


The Graphical User Interface





Review in ENC Designer





XML Log File Export

```
<?xml version="1.0" encoding="ISO-8859-1"?>
- <LogDocument Toolname="7Cs Analyzer">
     <LogGroup Title="7Cs Analyzer @ 4.0.0"> </LogGroup>
     <LogGroup Title="GB5X01NW: Critical 68, Error 17, Warning 162"> </LogGroup>
   + <LogGroup Title="Validation Parameters">
   + <LogGroup Title="Dataset Metadata">
   + <LogGroup Title="Dataset Entries: Warning 4">

    - <LogGroup Title="Feature and Geometry Entries: Critical 68, Error 17, Warning 158">

      + <LogGroup Title="AtonEquipmentNoSupport: Critical 1">
      - <LogGroup Title="InvalidFeatureGeom: Critical 65">
          - <LogEntry Severity="critical">
               <Category>Data Model</Category>
             - <Message>
                 - <![CDATA[
                      DEPARE must not be of geometry type Line.
                  ]]>
               </Message>
               <Reference>S-58, Ed. 6.1.0, checks 20a and 517c</Reference>
               <Reference>S-57, Ed. 3.1, Part 3 § 3.9, 4.2.1 and 6.2
               <Reference>S-57 ENC Product Specification, Ed. 2.0, § 3.3 and 3.9</Reference>
               <Reference>S-57 Use of the Object Catalogue for ENC, Ed. 4.1.0, § 15</Reference>
               <Reference>S-57 Supplement No. 3, ch. 3 § 3.3</Reference>
             + <ObiName>
            </LogEntry>
```



Summary

- 7Cs Analyzer based on Nautilus is S-100 ready
- 7Cs Analyzer is fully compliant to the latest Edition 6.1 of S-58 ENC
 Validation Checks.
- 7Cs Analyzer is already capable of validating S-101 datasets to the extent that validation rules have been defined, and S-58 checks are applicable.
- 7Cs Analyzer performs hundreds of individual checks and uses the same validation engine for both S-57 and S-101 data products.
- S-101 module will be charged extra
- New licenses preferrably as annual subscription



Thank you for your attention! Any questions?

