About myself

- Born in Northern Germany
- living with my Girlfriend in Eckernförde
- Industrial Engineer
- Over 5 years with SevenCs
- Have a dog, Luna


7Cs Analyzer Desktop
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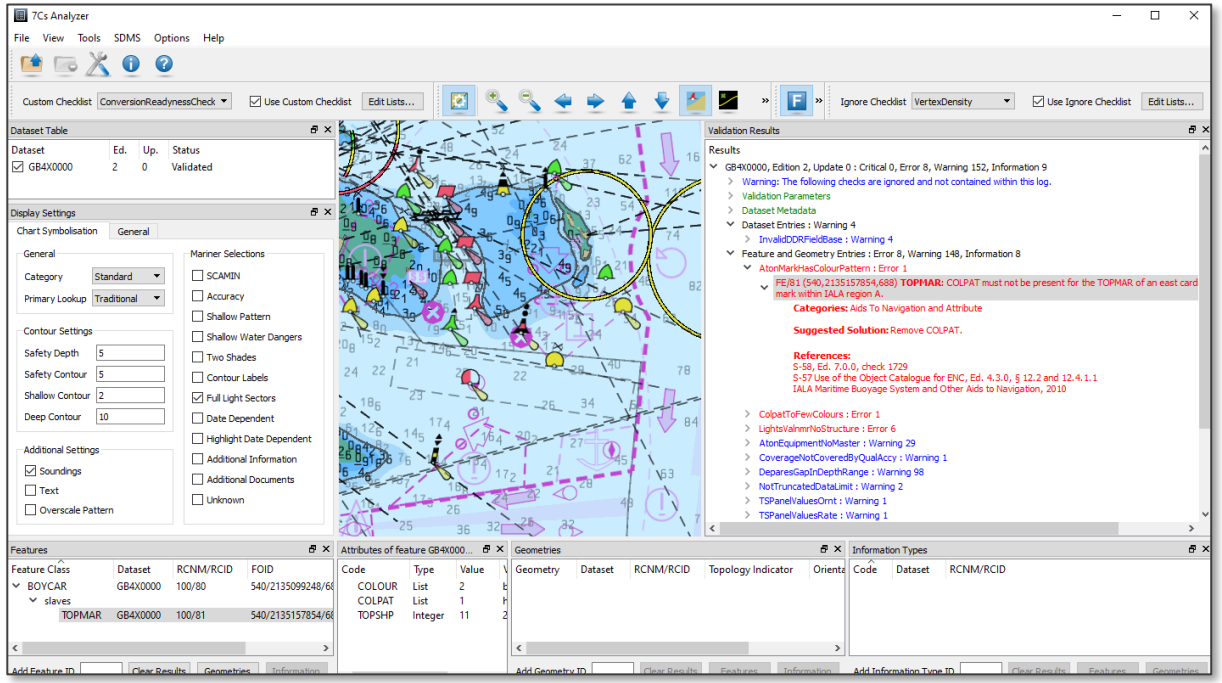
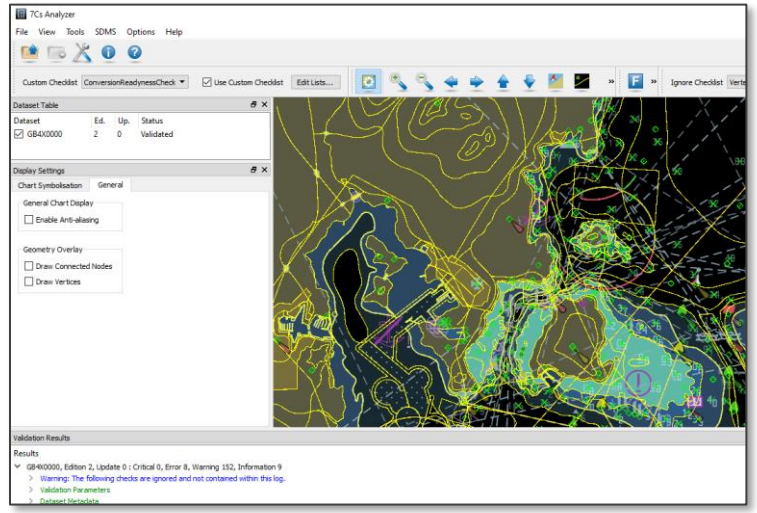
7Cs Analyzer

- Validation of S-57/S-101 datasets according to relevant IHO standards:
  - S-57 ENCs, IENCs, AML, bENCs
  - S-101 Edition 1.1.
- Desktop application
- User interaction
  - Load files,
  - review validation logs,
  - analyze log results, …



7Cs Analyzer desktop – typical usage scenarios



- Validation during or at the end of the chart editing process
- Verification of chart editing status, identify necessary corrections
- Error analysis requires human interaction
- 7Cs Analyzer provides dedicated functions to do an in-depth analysis of reported errors
- Used as primary or secondary validation tool,
- Independent validation tool separate from production tool; “3rd party rule”
- Automation is possible where human interaction is not required


Next Release
7Cs Analyzer Version 5.3
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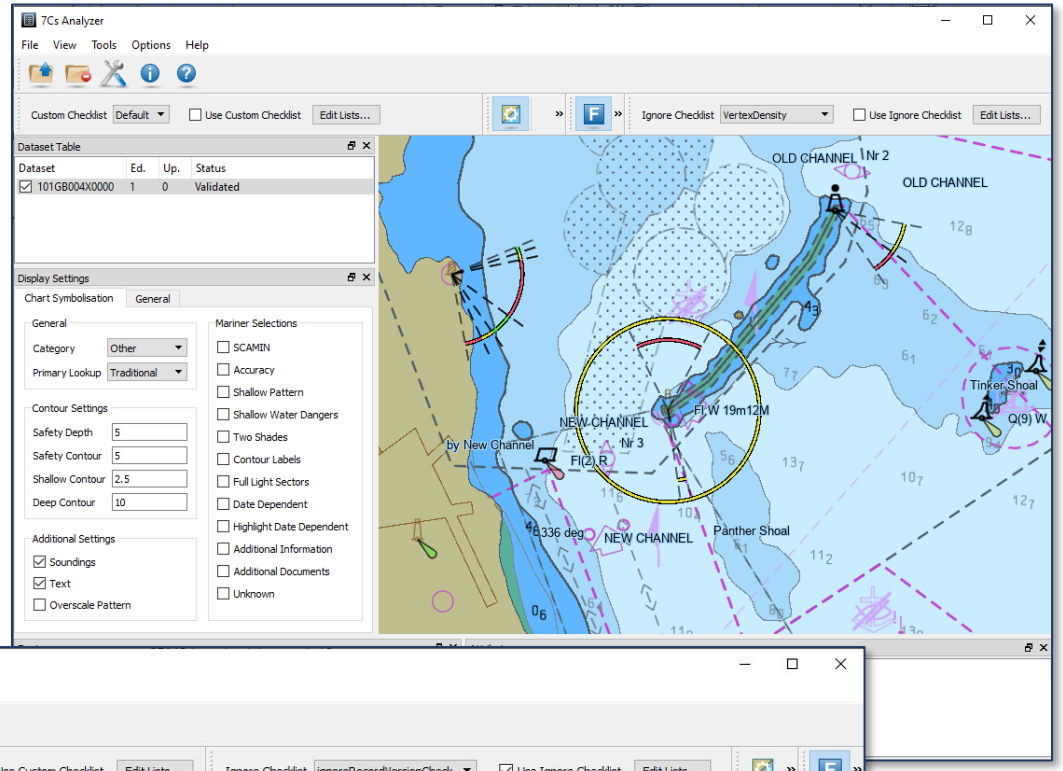
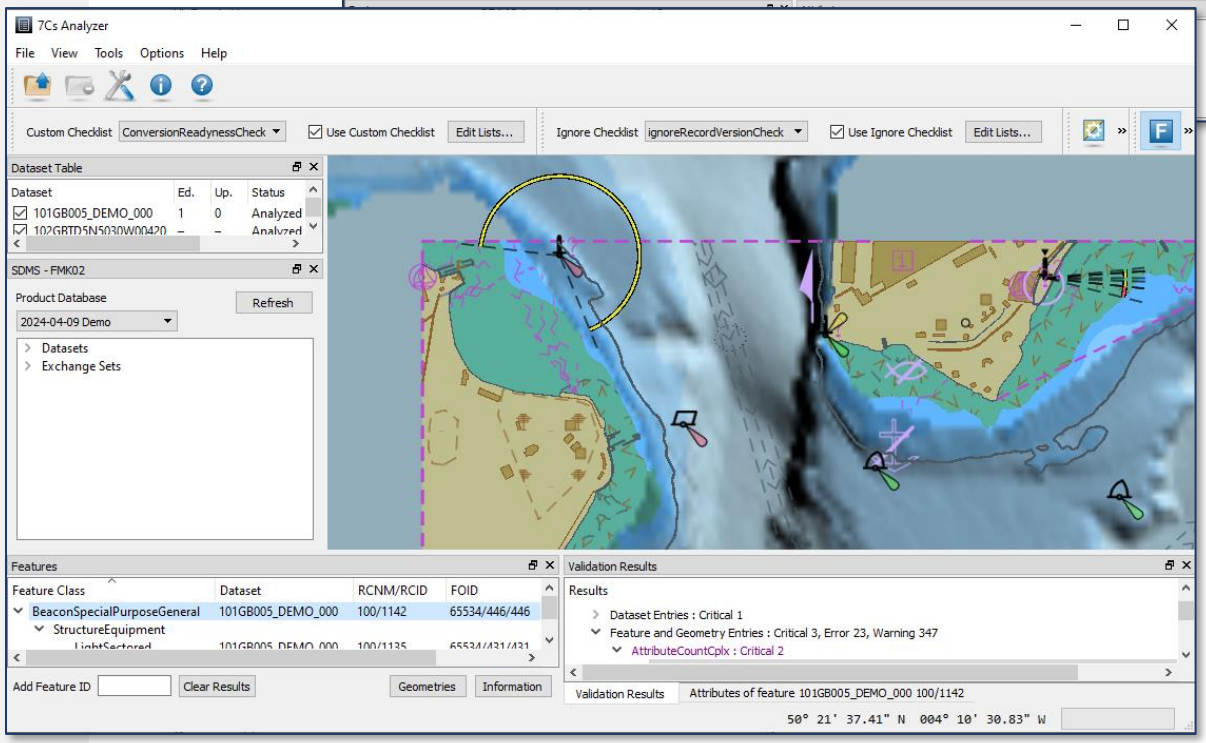
7Cs Analyzer 5.3

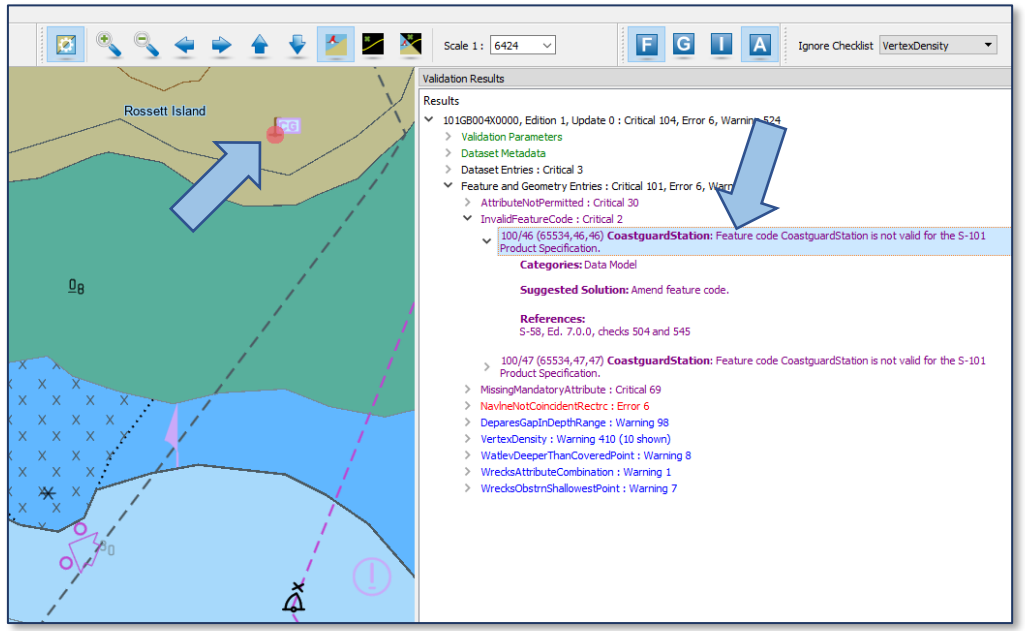
- Support of S-58 Edition 7.0
- Interaction with SDMS (for workflow management of validation processes; optional feature)
- Supports S-101 Edition 1.1, 1.2, **2.0**
- S-101 Chart Display
- S-102 Display
- S-101 / S-102 checks for cross-product validation

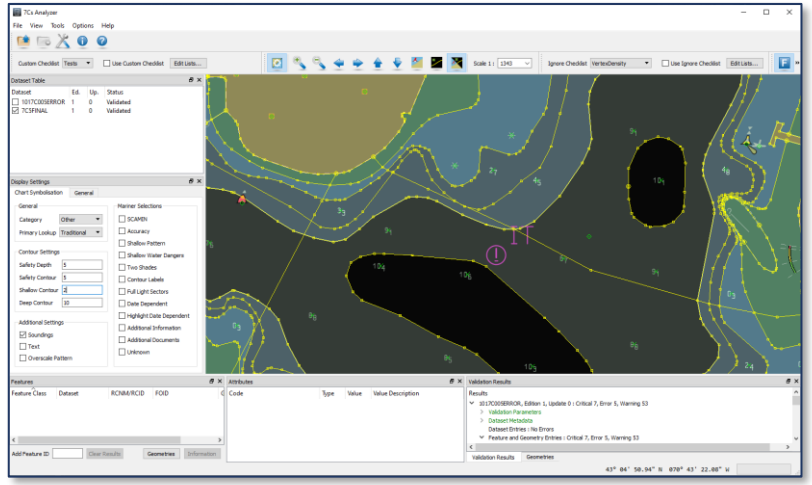




The validation process

- Import S-57 / S-101 dataset(s)
- Display and validate dataset(s)
- Review error messages
- On selection of error message, items affected are highlighted in chart display
- Functions for in-depth analysis of reported errors:
  - different display modes
  - review of feature and spatial relations,
  - feature attribution, feature associations






Export of error report

7Cs Analyzer – export of error report

- 7Cs Analyzer supports various formats to export the error log (xml, plain text format and shapefile).
- Exported shape files contain geometry of affected features along with the relevant error messages.
- Shapefiles can be loaded into 3rd party production software as reference during data fixing.

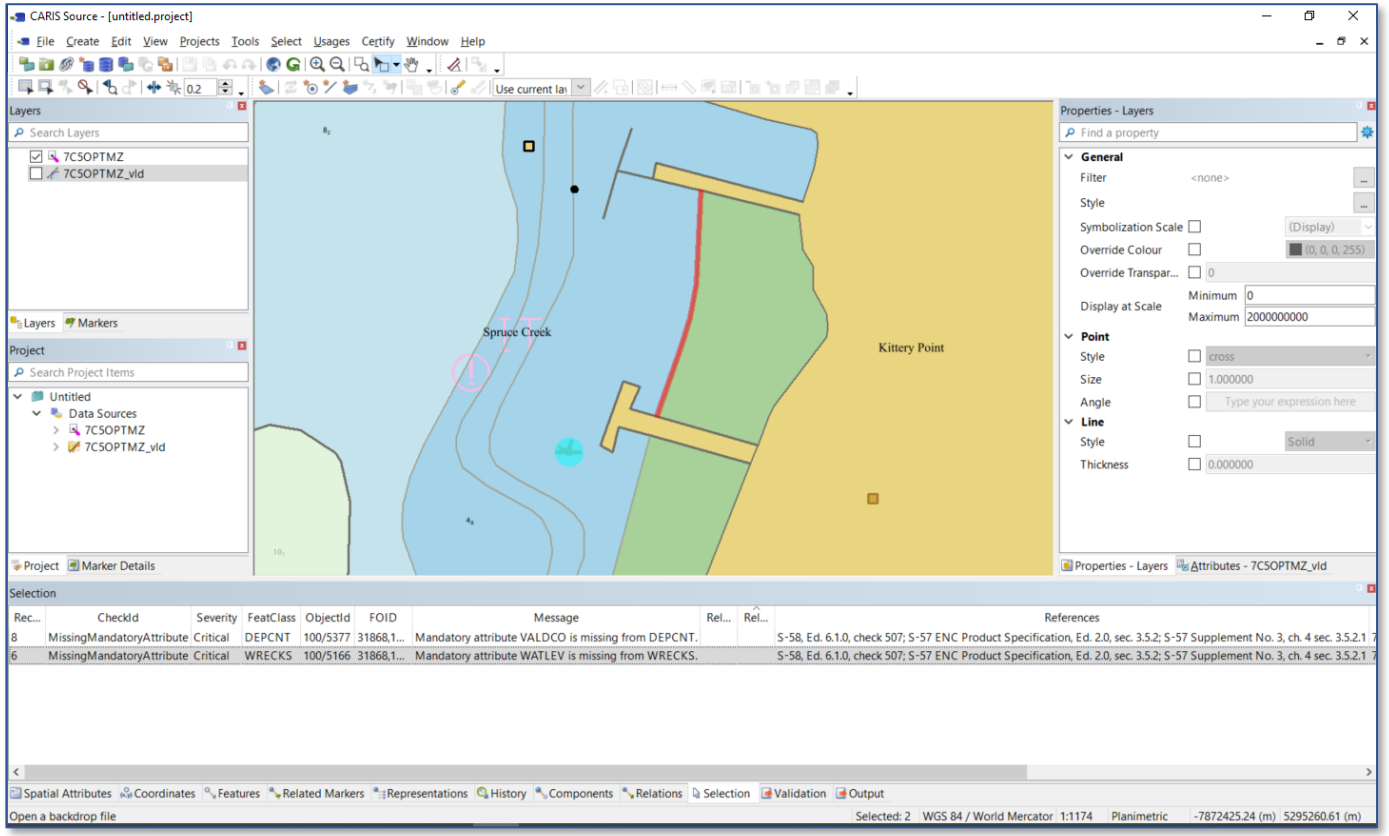
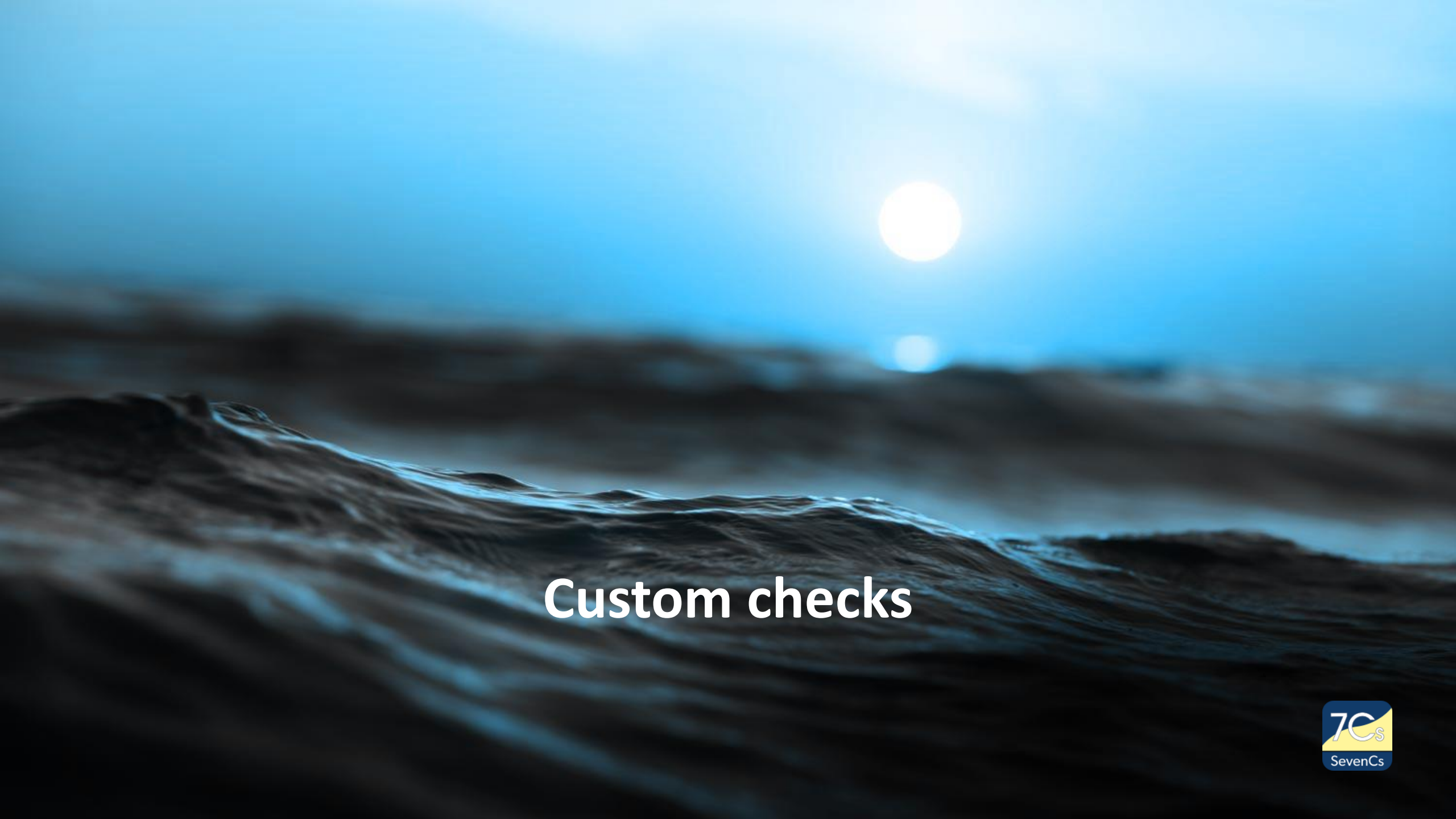
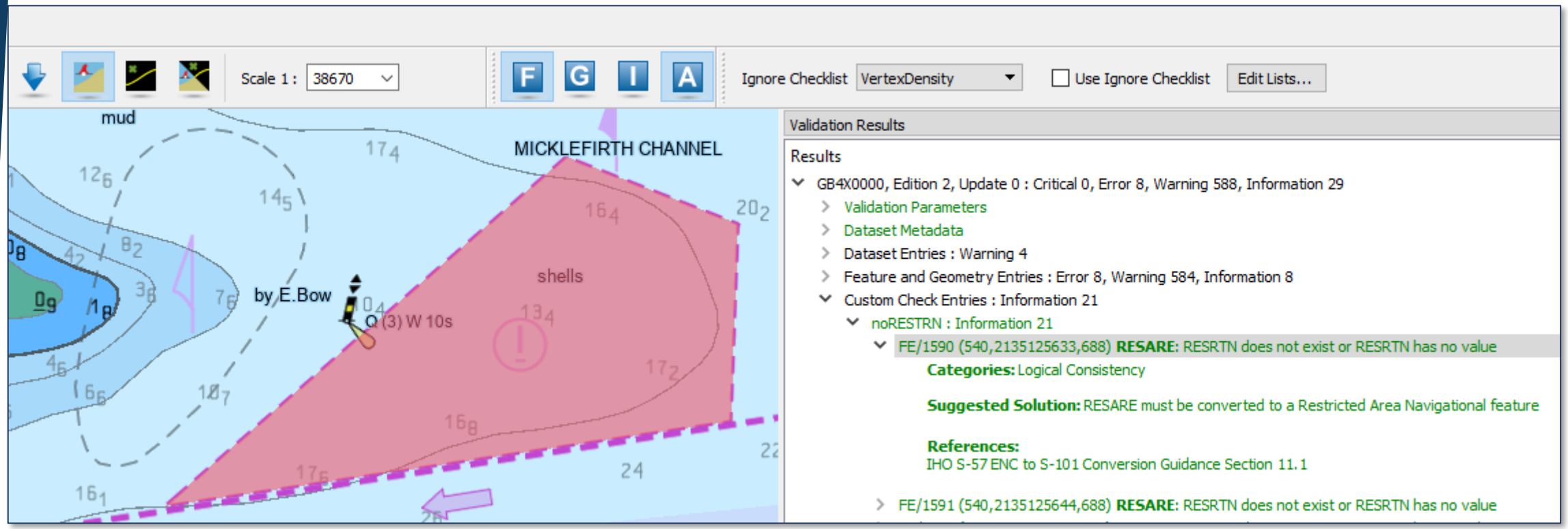


Image captured in CARIS HPD™ with permission of Teledyne CARIS™


Custom checks

7Cs Analyzer Custom Check Editor

- Example of Custom-Check: *finds RESARE without RESTRN attribute and RESARE with empty RESTRN attribute*



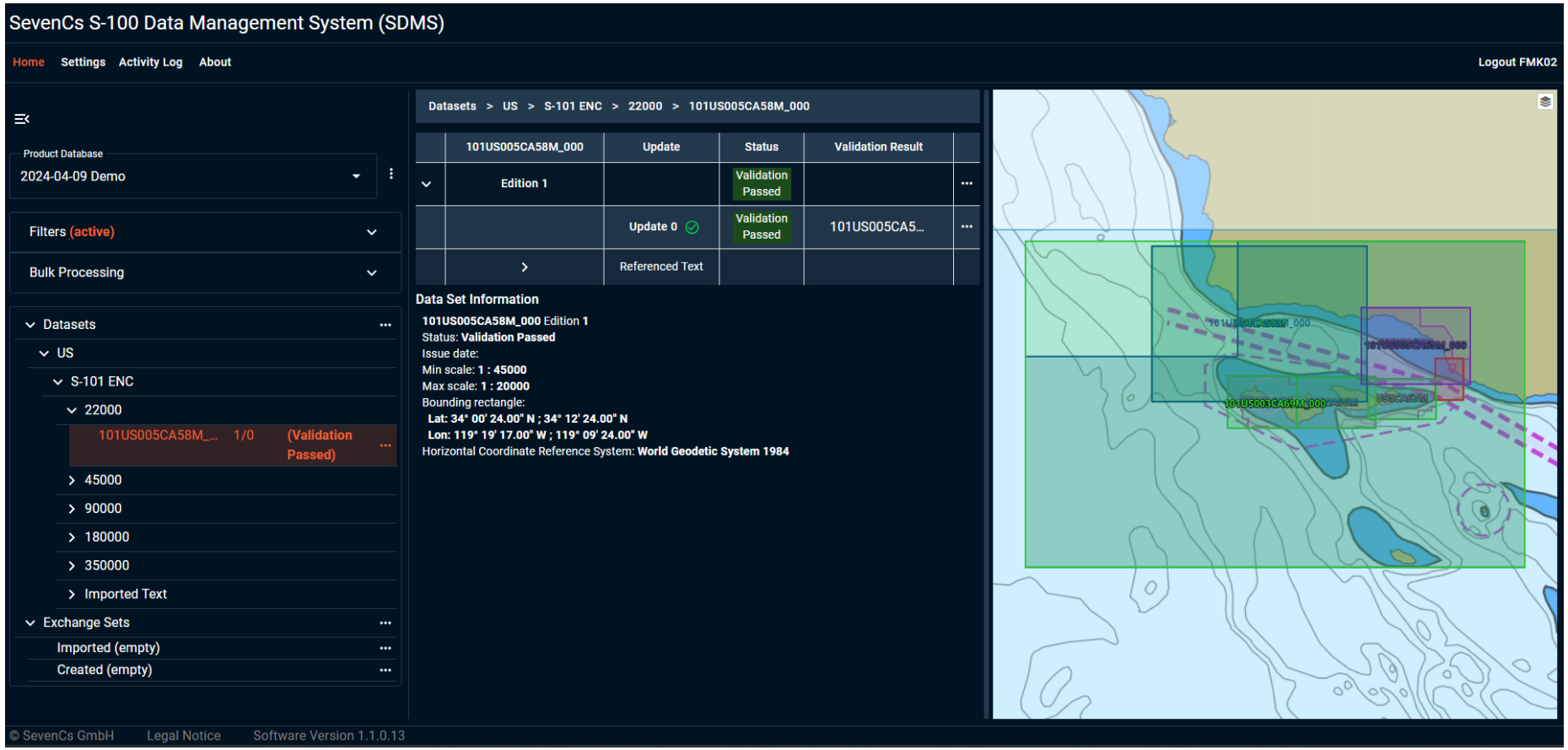
Feature Highlight

Result of Custom Check


Some of our Products

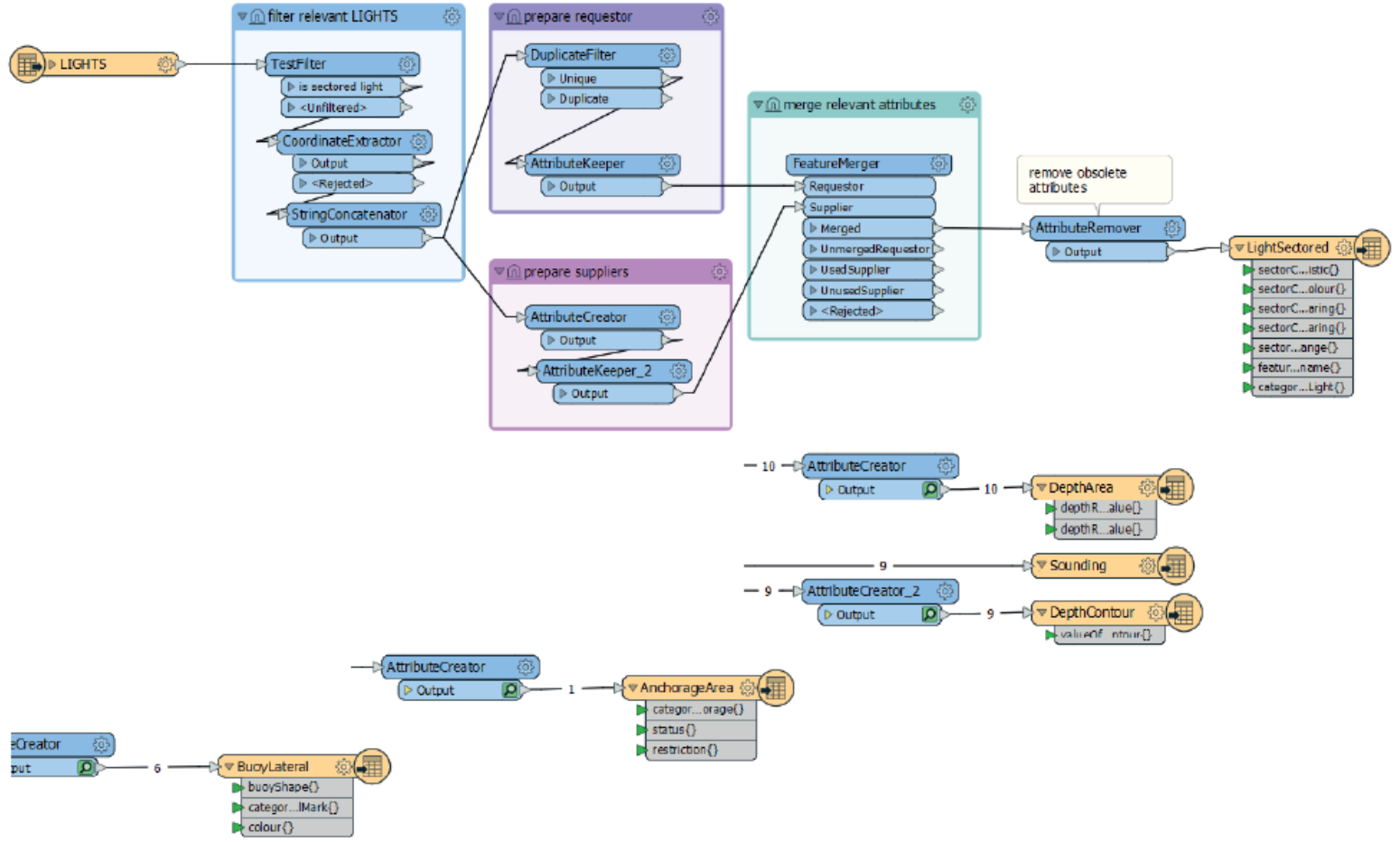
SDMS (S-100 Data Management System)

- Helps the data producer to manage their ENC production processes from validation to preparation of the distribution (data signing, exchange set creation, etc.)
- Supports S-101 and S-57 now, more to come…



S-57 <-> S-101 conversion

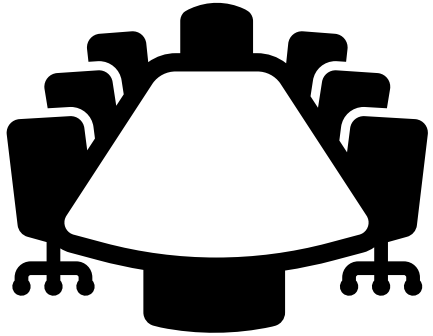
- SevenCs offers Plugins for FME to convert S-57 to S-101 and vice versa.
- Supports S-101 and S-57 now, more to come…



Training and Consultancy

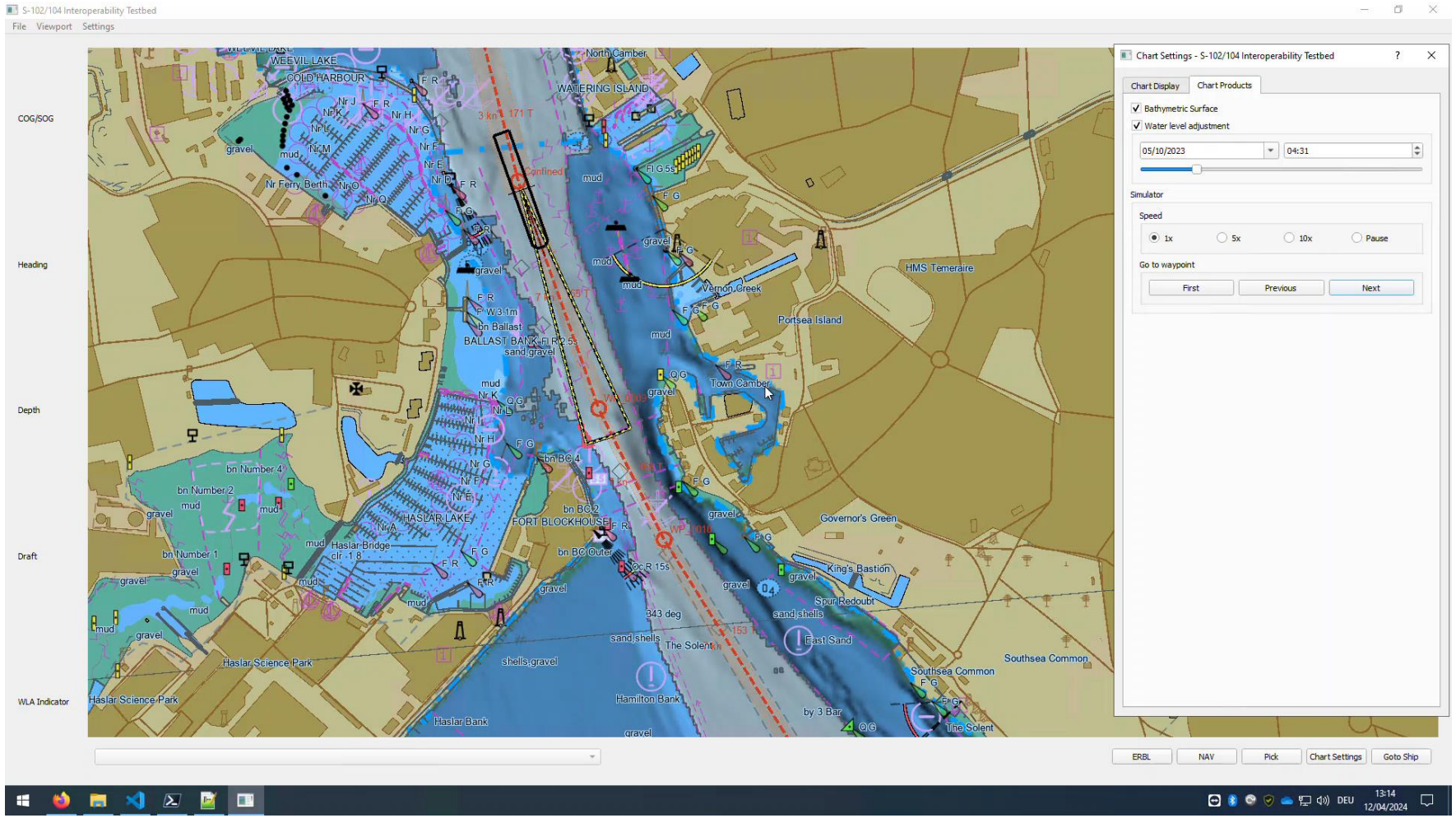
SevenCs can offer a range of services to help our customers:

- Bespoke Training for customers
- Basic Training about Data formats
- Data conversion S-57 into S-101 or vice versa
- ENC Tools
- How to set up a workflow
- Capacity building

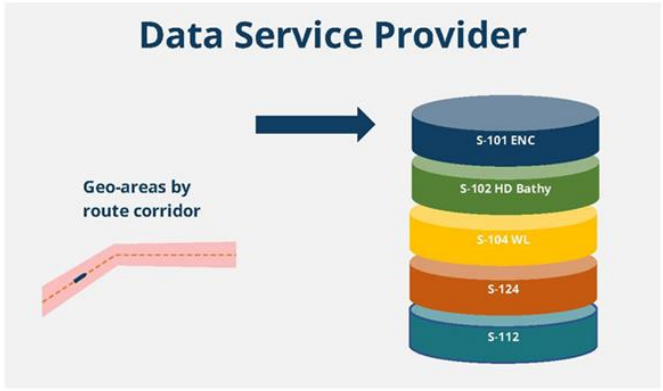


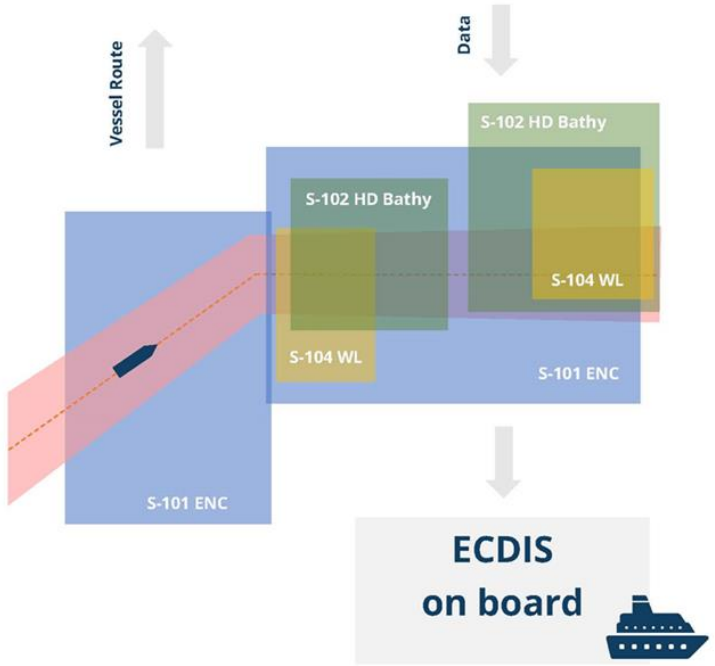
Nautilus ECDIS Kernel SDK

- State of the art Software Developing Kit for maritime Applications
- Supports S-57, S-101, S-102, S-104, S-111 and more…



Food for thoughts:





Data Value Chain Expectations

Free data; Chargeable Service

Deliver all the best data to vessels without a need to select or count or charge per cell/piece.

End User pays a Hydrographic Service Fee.

One-Stop-Shop for all S-100 data services along a given route.

How do we solve the current shore-based licensing issue?

What about the non-SOLAS market?

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Thank You
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