Inland ENC Workshop

18th of October, 2011 in Chongqing, P.R. China





SevenCs Team

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SDK Product Manager

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SevenCs Products and Services

- → ECDIS EC2007 Kernel A function library to administrate and display electronic charts. OEMs are using this library for the development of their own applications.
- → ENC Tools Software for S-57 Data production A suite of tools for an efficient S-57 chart production, e.g. ENCs, Inland ENCs, Port ENCs, bathymetrische ENCs (bENCs).
- Specific Software Products for specific requirements like Inland ECDIS, Port ENCs, Portable Pilot Units (bENCs), Workboats
- Support, Training and Consulting

SevenCs ENC Tools

Nebenelbe

The Complete Electronic Chart Production Software Suite

ENC Tools Software

ENC Tools Software for S-57 Data production – suite of tools for an efficient S-57 chart production, e.g. ENCs, Inland ENCs, Port ENCs, bathymetric ENCs (bENCs).

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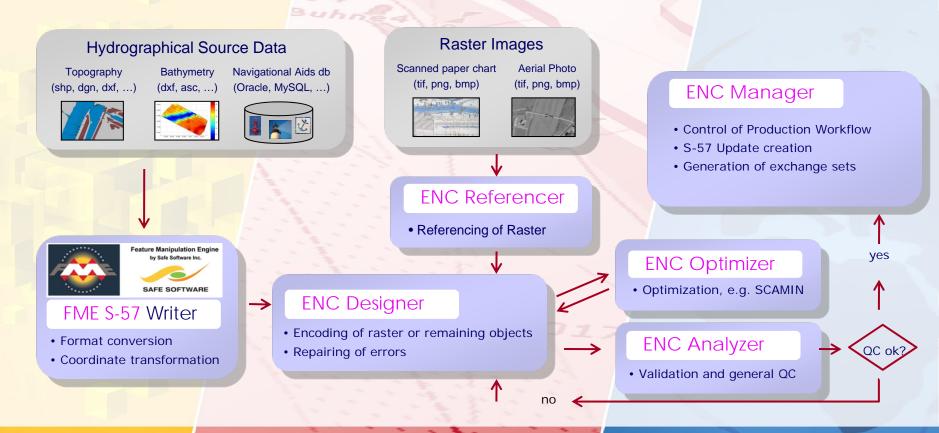
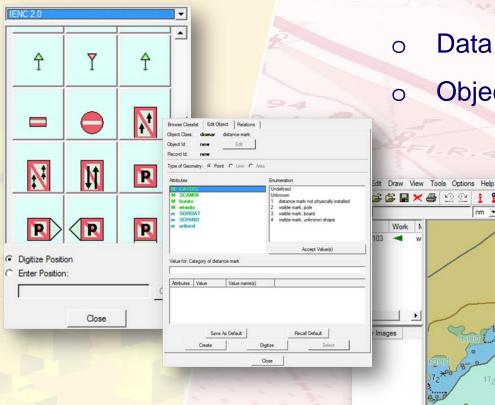


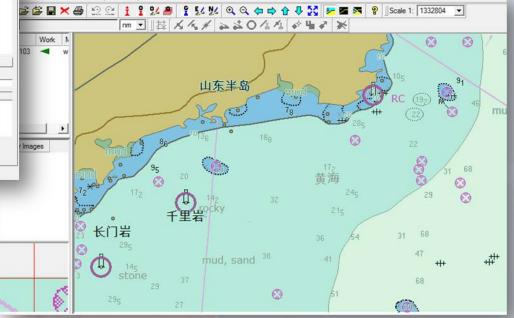
Chart Production using ENC Designer *Enterprise Pakage



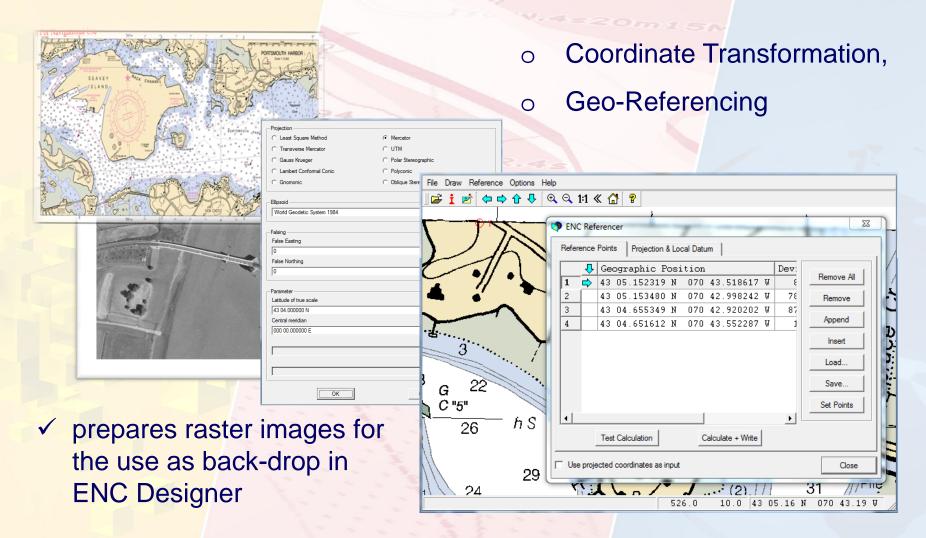
- Data Capturing and Editing,
- Object Encoding,

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Data Review and Inspection



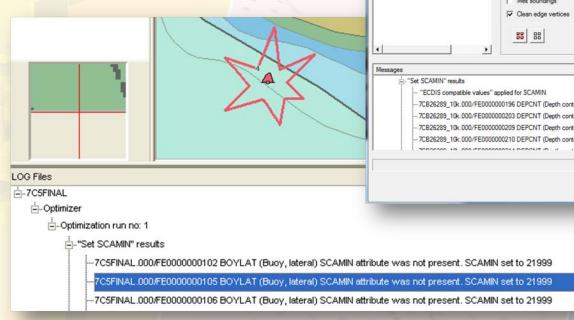
ENC Referencer * Enterprise Pakage

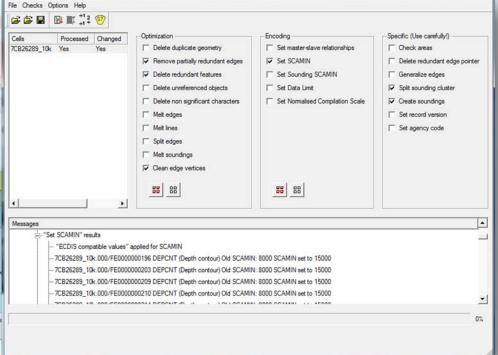


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ENC Optimizer

- Data optimization,
- Error correction and
- Automatic Encoding

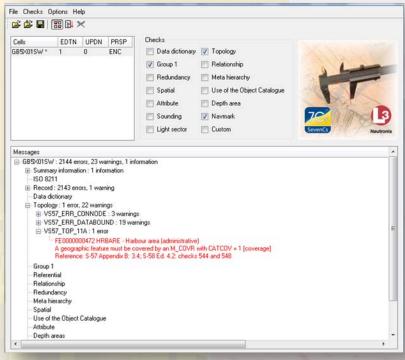




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QA using ENC Analyzer





Ensures the quality of the produced ENC data

S-58 Validation checks

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- S-57 Compliance tests
 - ISO 8211 Encapsulation checks



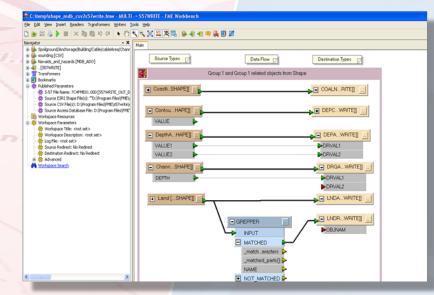
Data Conversion using FME

FME Environment - Powerful solution to convert digital data in 250+ formats to S-57 and vice versa.

- Coordinate Transformation
- Data Model Transformation
- Feature and spatial modifications
- Batch processing







FME Software from Safe Company

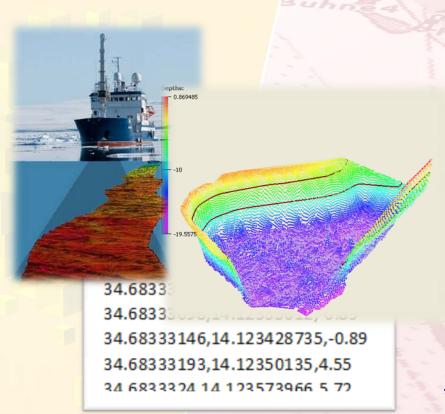


FME S-57 Writer Plug-in from SevenCs



Depth Contours Generation

ENC Contour Generator – calculates the contour lines from the XYZ file, cleaned survey data, and automatically creates the S-57 depth contour lines.



- Coordinate Transformation
- Considering hydrographic rules, i.e. Generalization and Smoothing to the safe side
- Export into S-57 and
- SevenCs SENC format

*Cleaned Bathymetry (Point clouds, xyz)

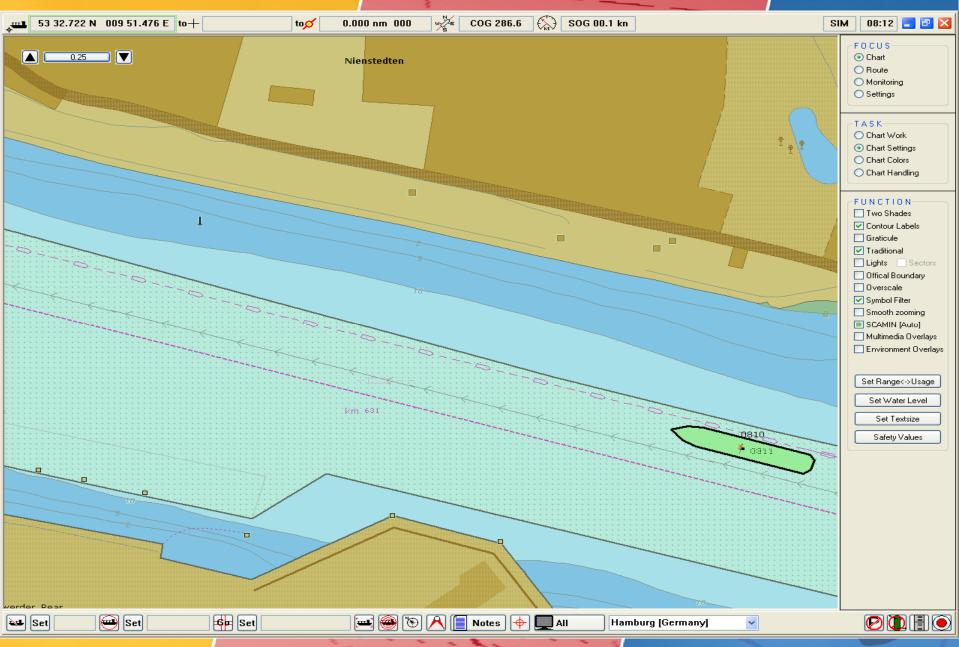


bENC as S-57 Product...

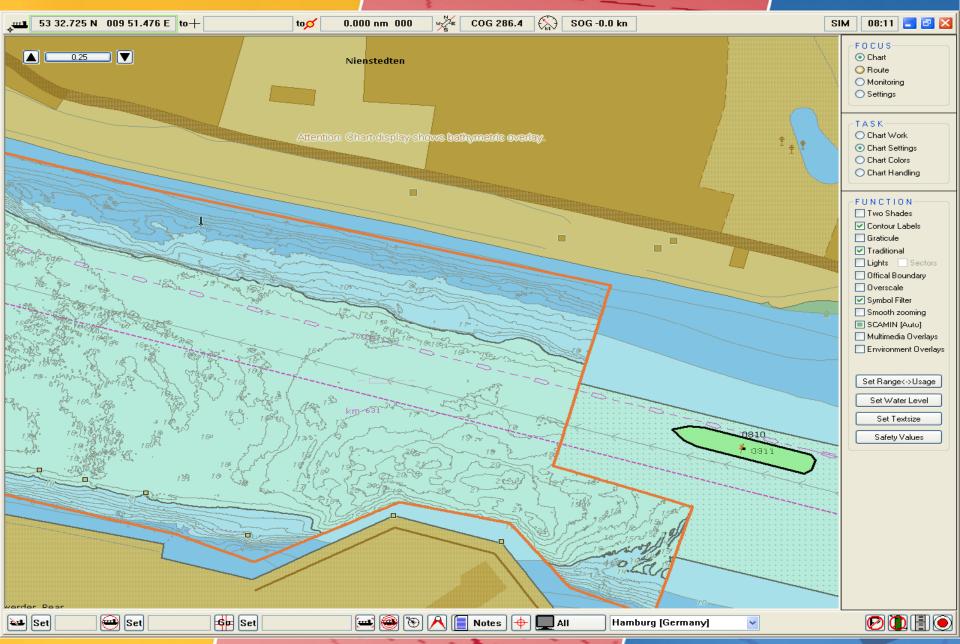
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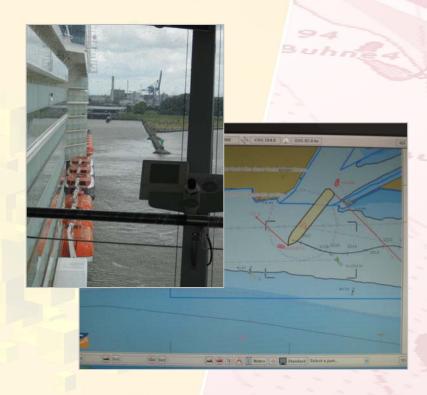
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Navigation Software

Products for specific requirements like Inland ECDIS*, Port ENCs, Portable Pilot Units (bENCs)**



**Precise manoeuvring based on customized charts

*Significant fuel savings navigating in waterways









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