Welcome and Introduction

10th SAIHC Conference
Lisbon
16 -18 September 2013

Björn Röhlich

🌐 **Positions:**

   🌐 **Navy Officer**

   🌐 **Training Manager Transas Marine**

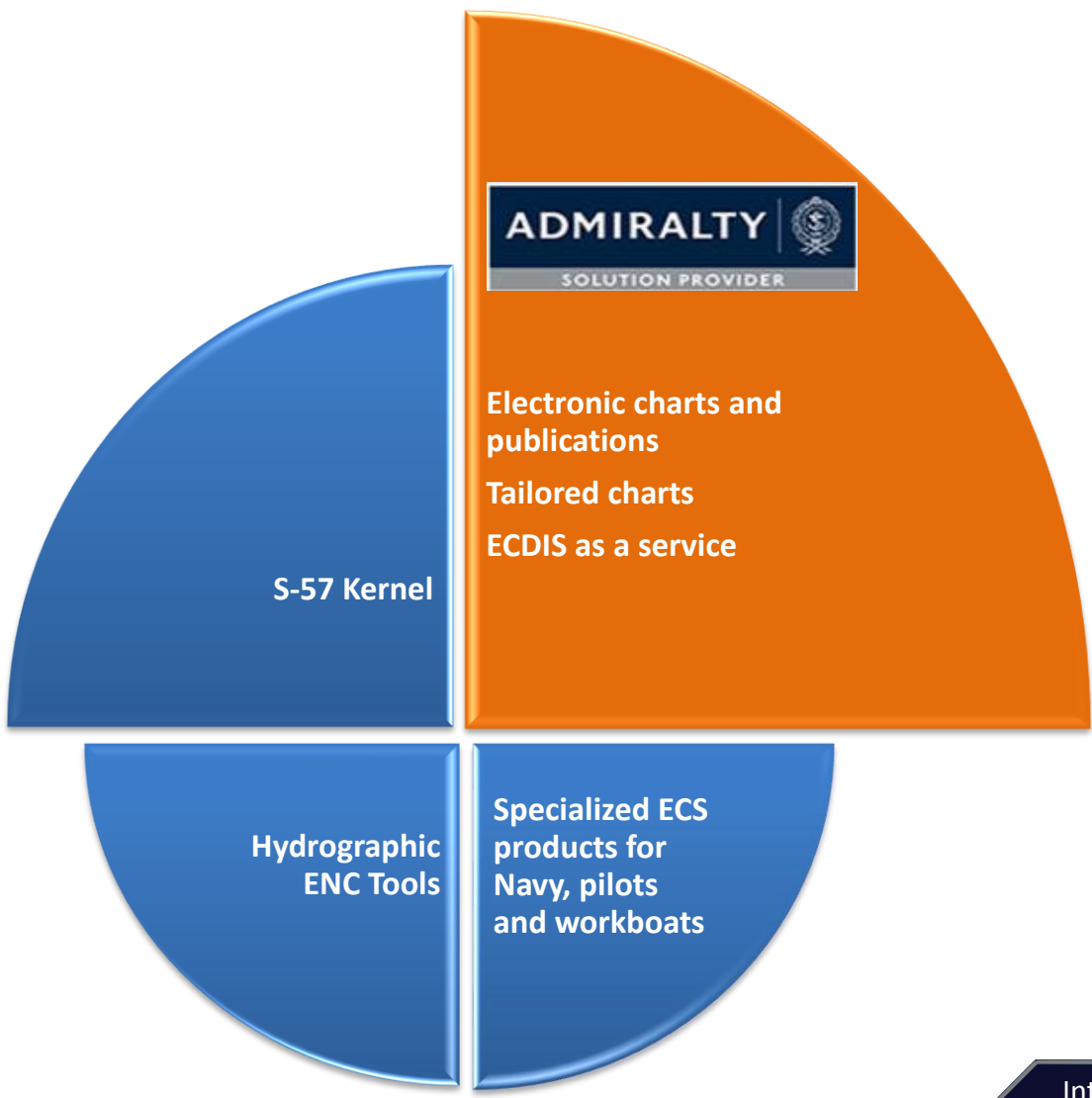   🌐 **Managing Director MSG MarineServe**

   🌐 **Sales Director SevenCs**

Company presentation SevenCs und ChartWorld
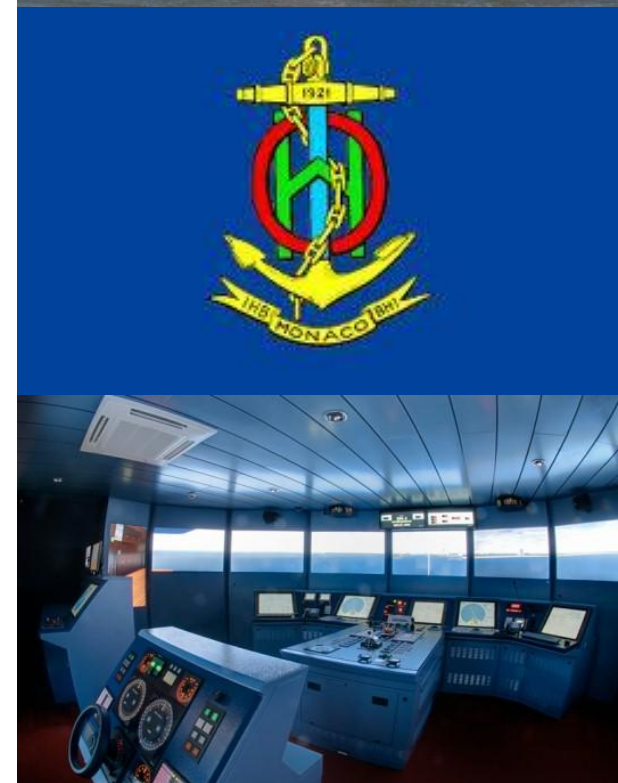
Founded: 1992
Staff: 70+
Offices:

ChartWorld Asia Pacific Pte Ltd
Singapore

ChartWorld GmbH
SevenCs GmbH
Hamburg - Germany

ChartWorld International Ltd
Cyprus

Company presentation SevenCs und ChartWorld

ADMIRALTY SOLUTION PROVIDER

Electronic charts and publications

Tailored charts

ECDIS as a service

S-57 Kernel

Hydrographic ENC Tools

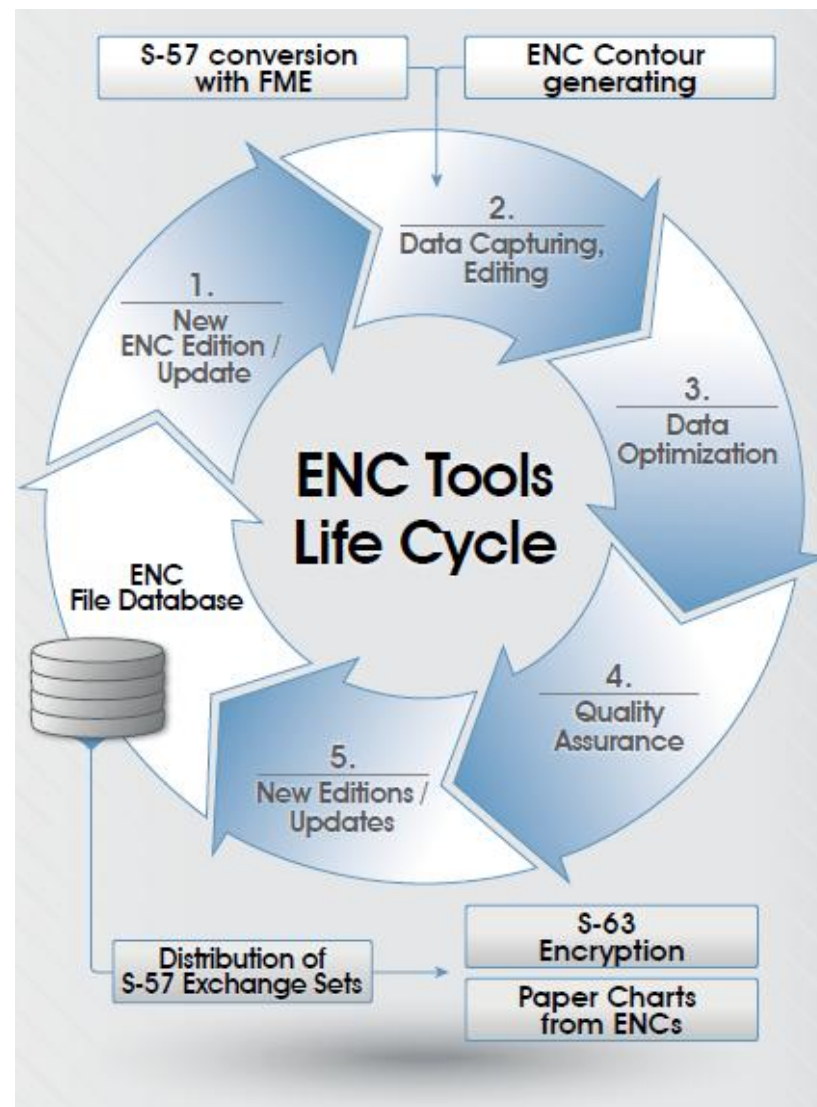**Specialized ECS products for Navy, pilots and workboats**

History

- **Founded in 1992**

- **Ex UKHO owned company**

- **Created S-57 and S-52 Standard for IHO**

- **Part of the core team for S-100**

- **Experience along the entire value chain of ENCs – Production Software, Production and Encryption, Data Management, Distribution and Navigation**

- **More than 100 chart producing clients in various fields such as Hydrographic Offices, Waterway Authorities, Ports, Pilots, private ENC producers, Simulators and Universities.**

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ENC Tools Life Cycle

- S-57 conversion with FME
- ENC Contour generating
- 1. New ENC Edition / Update
- 2. Data Capturing, Editing
- 3. Data Optimization
- 4. Quality Assurance
- 5. New Editions / Updates
- ENC File Database
- Distribution of S-57 Exchange Sets
- S-63 Encryption
- Paper Charts from ENCs

Products

- **ENC Designer with ENC Manager**

- **ENC Contour Generator**

- **ENC Optimizer**

- **ENC Analyzer**

- **ENC Cartographer**

- **ENC Encryptor**

Products

🌐 **Safe Software FME including S-57 Writer Plug-In**

allows you to convert any Geo-Information into S-57 format.
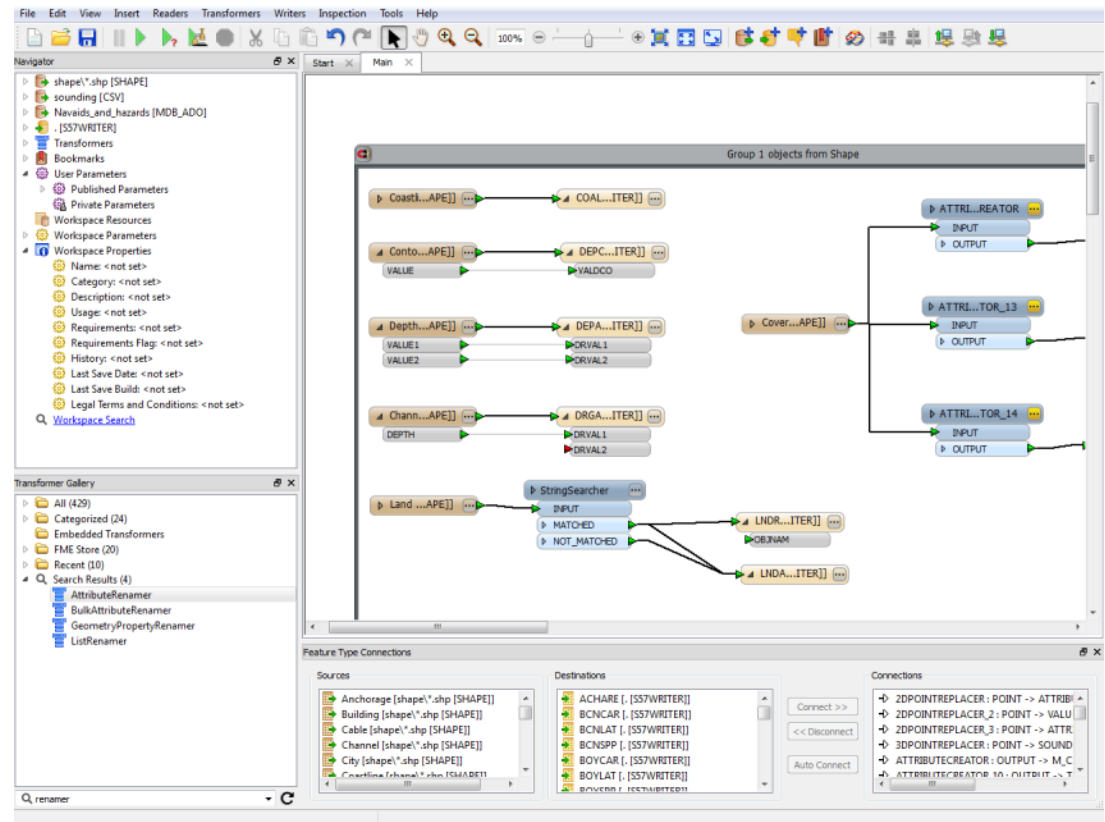
ENC Designer with ENC Manager

- ENC Designer is a graphical tool which allows you to create, edit and update ENCs, IENCs and AMLs.

- The powerful software allows to utilize existing S-57 data or geo-referenced raster data while providing a plot function for visual data verification.

- ENC Manager is a workflow environment for the maintenance of S-57 data.

- It can be used in the production of new ENCs, IENCs, AMLs, updates, new editions and S-57 Exchange Sets.

ENC Designer with ENC Manager

ENC Contour Generator

- **ENC Contour Generator allows automatic generation of depth contours at user defined intervalls from xyz data**

- **3D visualisation of source data and contouring results**

- **Includes a comprehensive Coordinate Reference System (CRS) Manager**

- **Supports "safeside" contour smoothing and contour generalization**
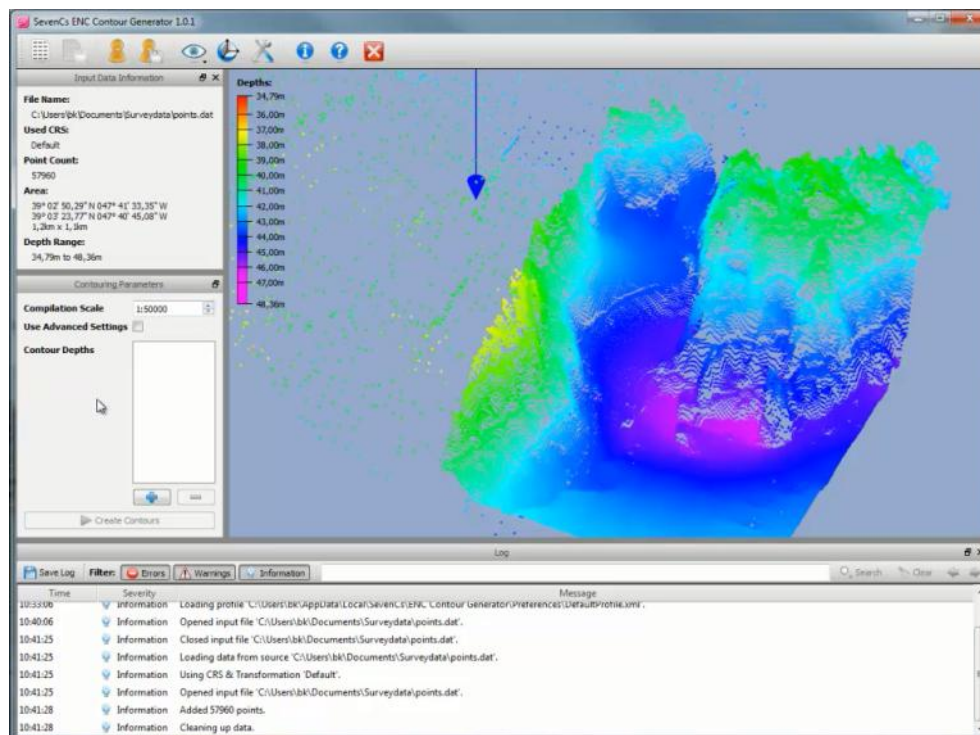
ENC Optimizer

- **RENC recommended tool to reduce data volume and maximize display performance**

- **Automatic setting of official or user defined SCAMIN values**

- **Automatic correction of digitizing errors, e.g. duplicate geometry, non significant characters etc.**

- **Logfile allows to step through the single optimizations in ENC Designer**

- **Filter function allows to apply single optimization functions to particular objects**

ENC Optimizer

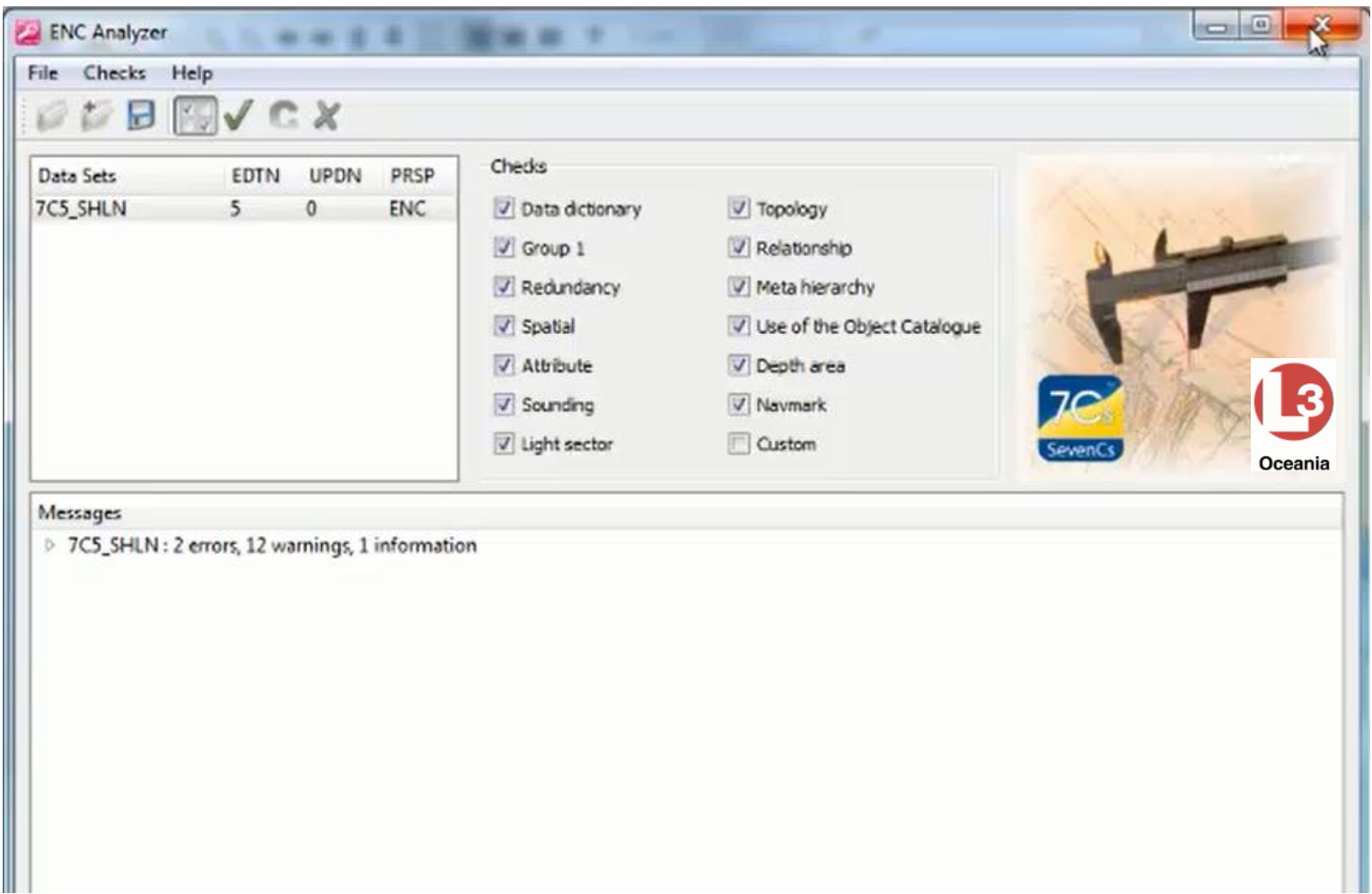## *ENC Analyzer*

- ENC Analyzer is a joint development of L-3 Oceania and SevenCs

- Powerful data validation tool which performs over 600 checks according to IHO S-58 (Recommended ENC validation checks)

- Works as a stand alone tool or in combination with ENC Designer

- Individual results can be check via the log file and highlighted in ENC Desiger

ENC Analyzer

ENC Cartographer

- **ENC Cartographer allows to derive INT1/INT2 paper charts from one or more S-57 ENC cells**

- **Creation of Zones of Confidence (ZOC) diagrams using S-57 quality objects**

- **Support of INT2 borders and graticules**

- **Generation of marginalia and text**

- **Tidal Stream and Compass Rose paper symbols derived from S-57 objects**

- **Spatial Vector Graphics (SVG) generated file for cartographic editing**

- **Support of non-latin characters**

ENC Cartographer

ENC Encryptor

- ENC Encryptor allows S-57 ENC producers to encrypt and sign their data according to the IHO S-63 Data Protection Scheme.

- ENC Encryptor is delivered together with the ENC Permit Generator

- ENC Permit Generator generates the respective chart keys needed by the data users to access the data. Furthermore a Data client database is created.

- Supports S-63 1.0 and 1.1

ENC Encryptor
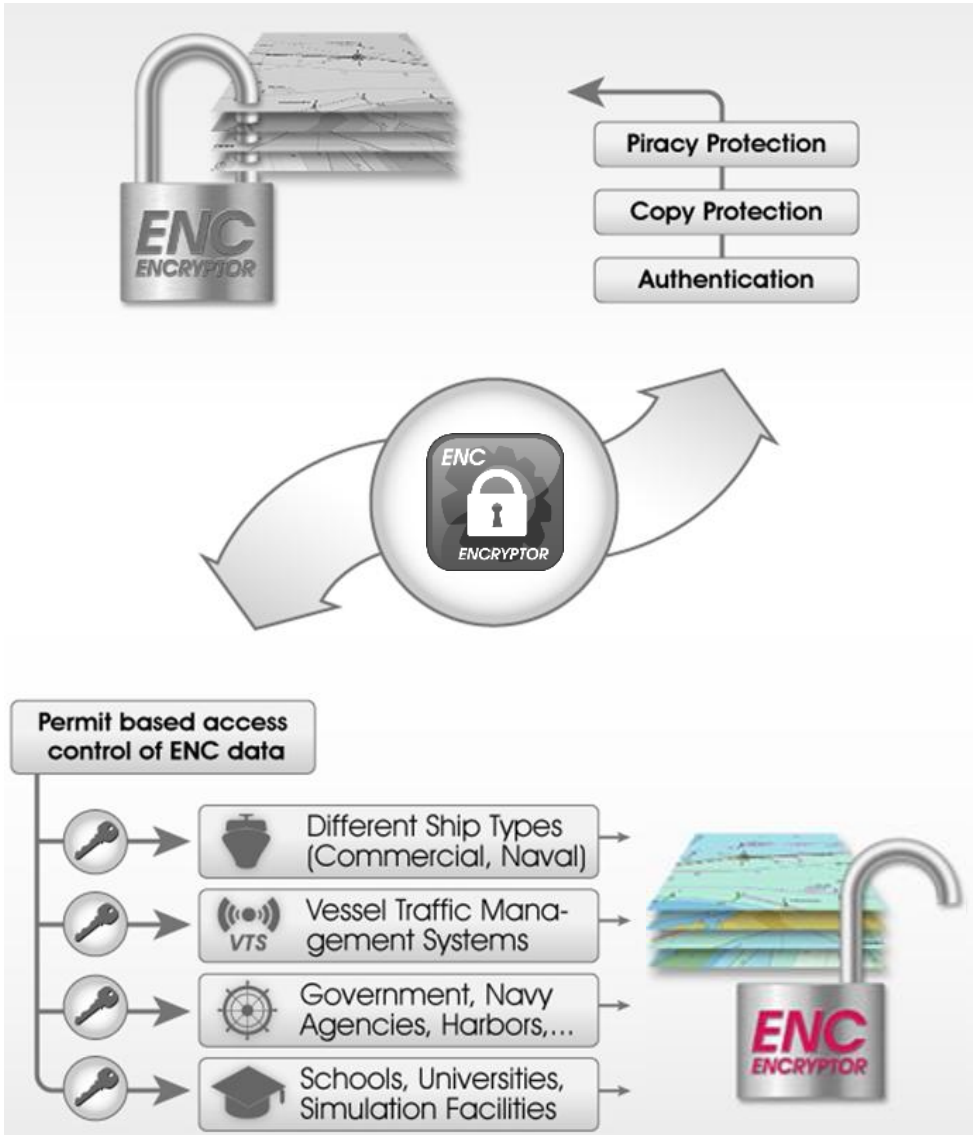
Commercial aspect

- **SevenCs is supporting emerging countries and their hydrographic offices with its easy to use and cost efficient ENC Tools**

- **Software support based purchase programs**

- **Web-based and cost efficient one-on-one ENC production training**

How can we assist you and your team?

SevenCs GmbH │ **sales@sevencs.com** │ **+49 40 851 7240**