

# SevenCs / ChartWorld a quick overview





# SevenCs / ChartWorld a quick overview

- Founded in 1992 in Hamburg, Germany
- SevenCs belongs to ChartWorld
   International group of companies
- Digital Chart Agent, ECDIS Manufacturer,
   VAR, Chart distribution services
- Voyage planning solutions
- => Variety of Products and Services related to ENC and ECDIS

Founded in 1992 150+ Employees 5 Office locations Hamburg Limassol Tokyo Vancouver





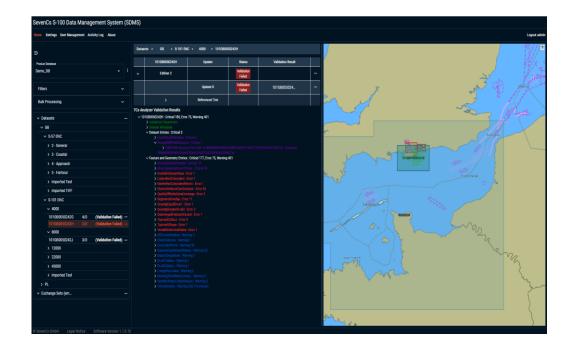
S-100 Data Management
System - SDMS
what it is all about?





### S-100 Data Management System

The S-100 Data Management System
 (SDMS) is a modular, and scalable
 Management System for S-57 and S-100
 Workflows

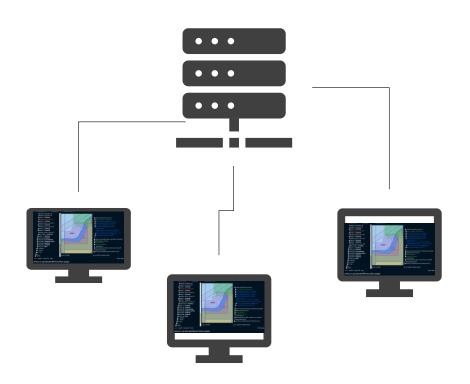






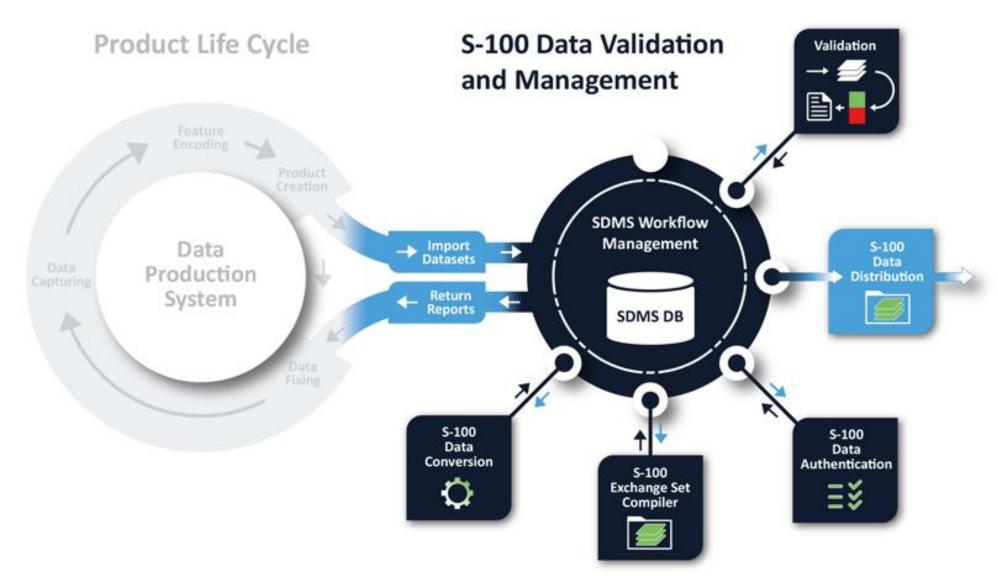
#### SDMS – main features

- focus on 'after-editing' processes and workflows
- works as client-server application
- single or multi-user operation
- physical or cloud-based environment
- or desktop solution
- self-deployed or hosted



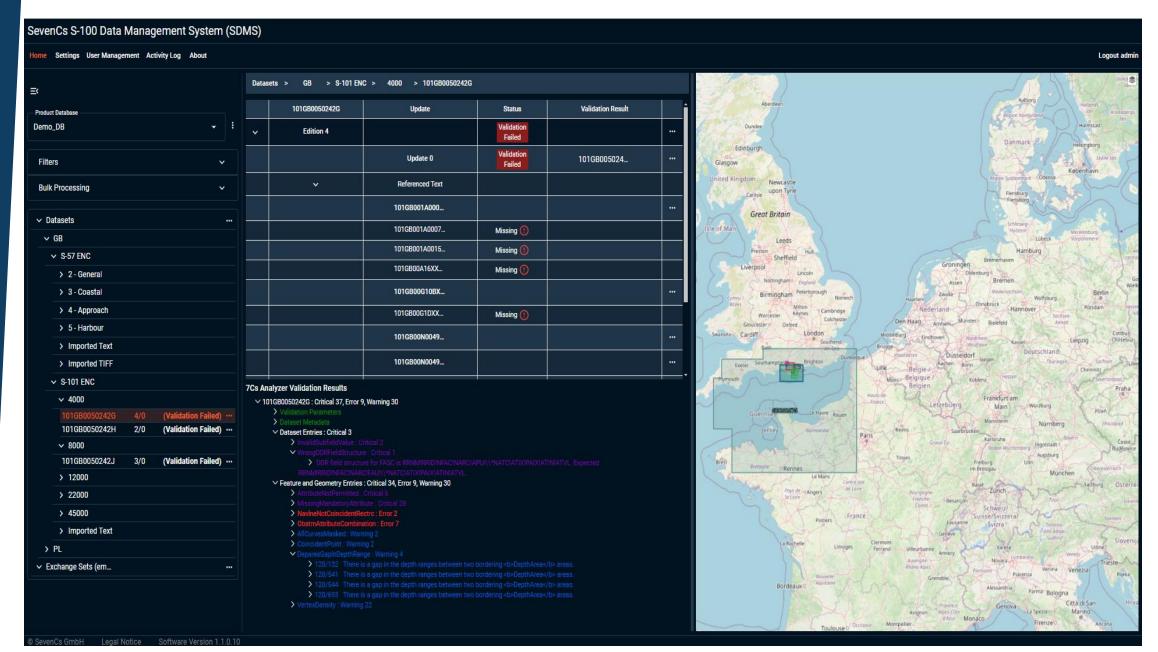


#### SDMS position in the ENC production





## S-100 Data Management System -GUI



# Managing the validation process with SDMS



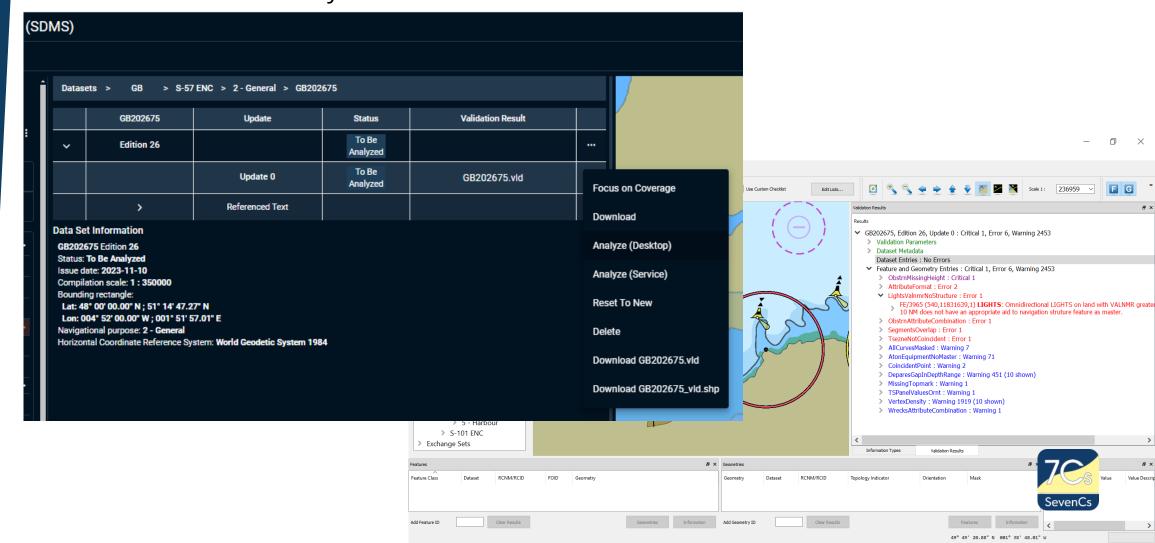
#### Managing the ENC validation process with SDMS

Upload S-57 and /or S-101 ENCs and select datasets for validation



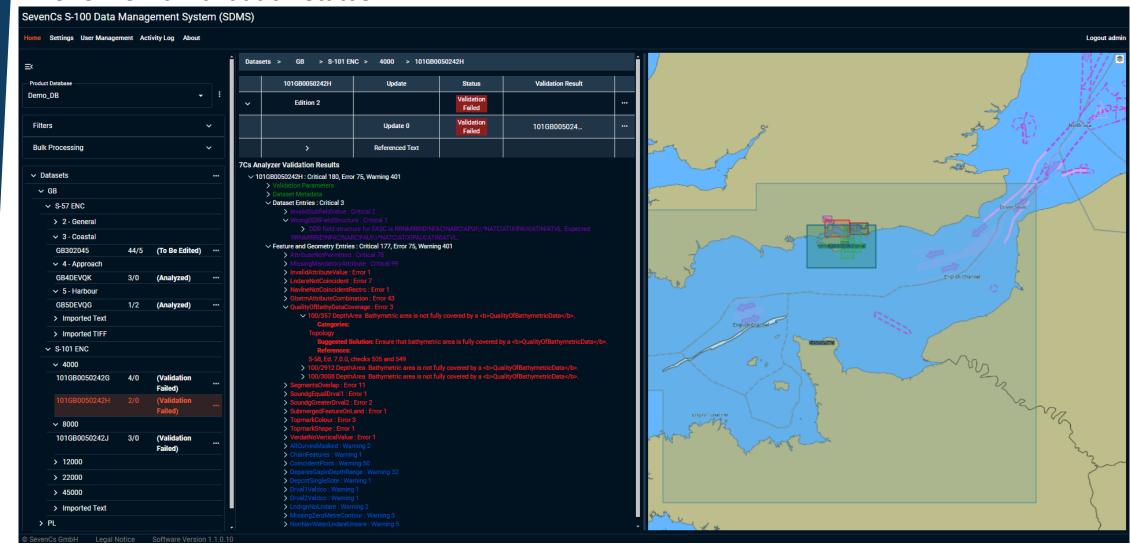
#### Managing the ENC validation process with SDMS

Interaction with 7Cs Analyzer



#### Managing the ENC validation process with SDMS

Overview of validation status

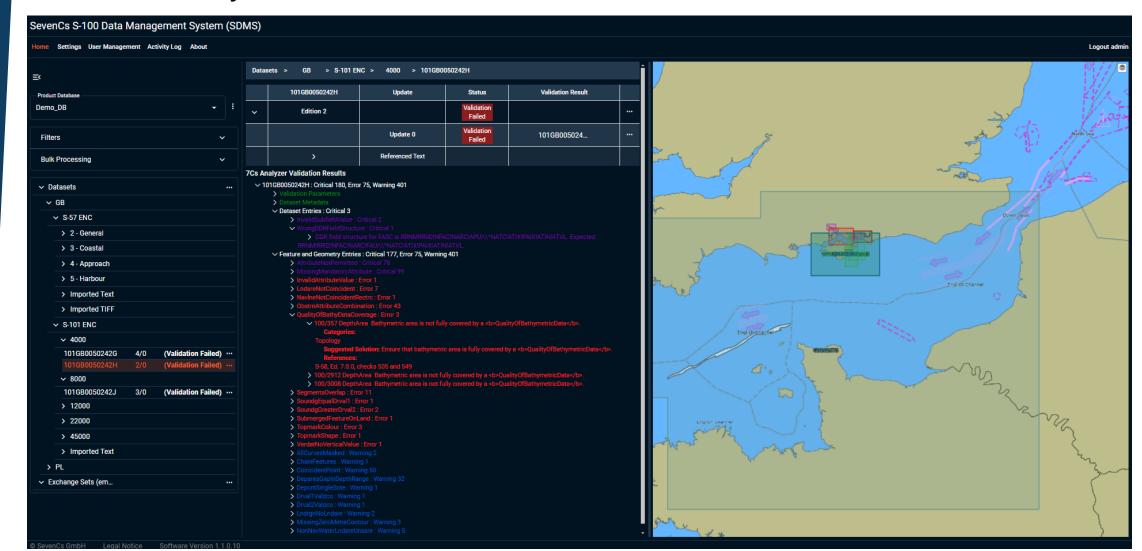


Managing the validation process of converted S-101 data with SDMS



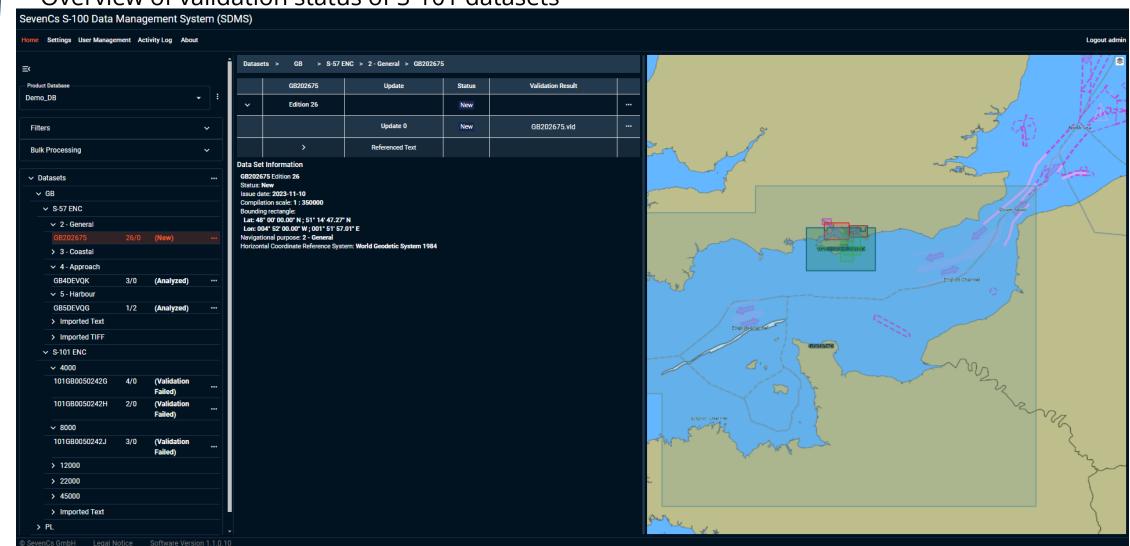
#### Manage validation of converted S-101 data

• Review 7Cs Analyzer validation results of S-101 datasets



#### Manage validation of converted S-101 data

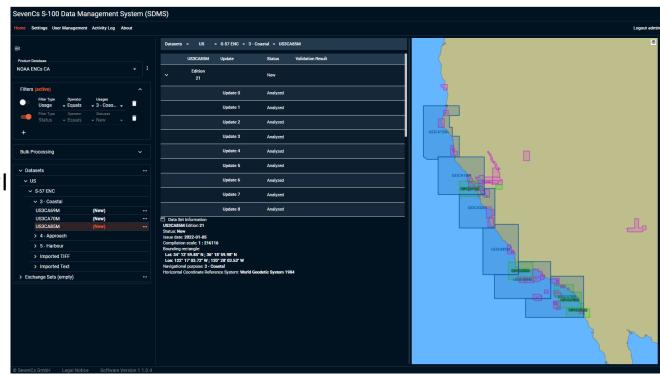
Overview of validation status of S-101 datasets





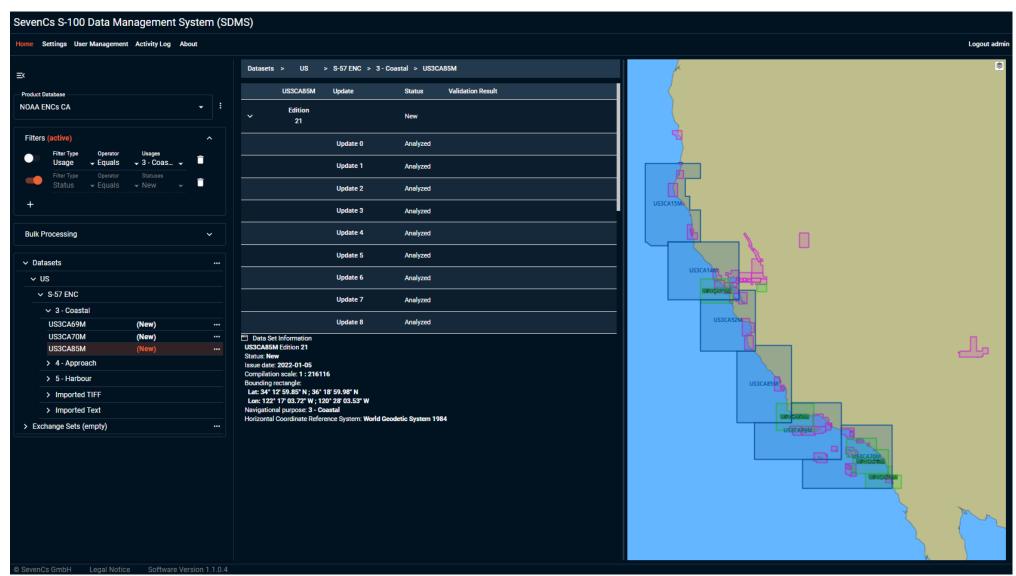
#### **SDMS News**

- New improved Layout
- Data Filtering
- Bulk Processing
- Integration with 7Cs Analyzer Service API
- Integration with Caris Composer
- Support for IENCs and bENCs
- S-100 Data Signing
- S-100 Exchange Set Creation



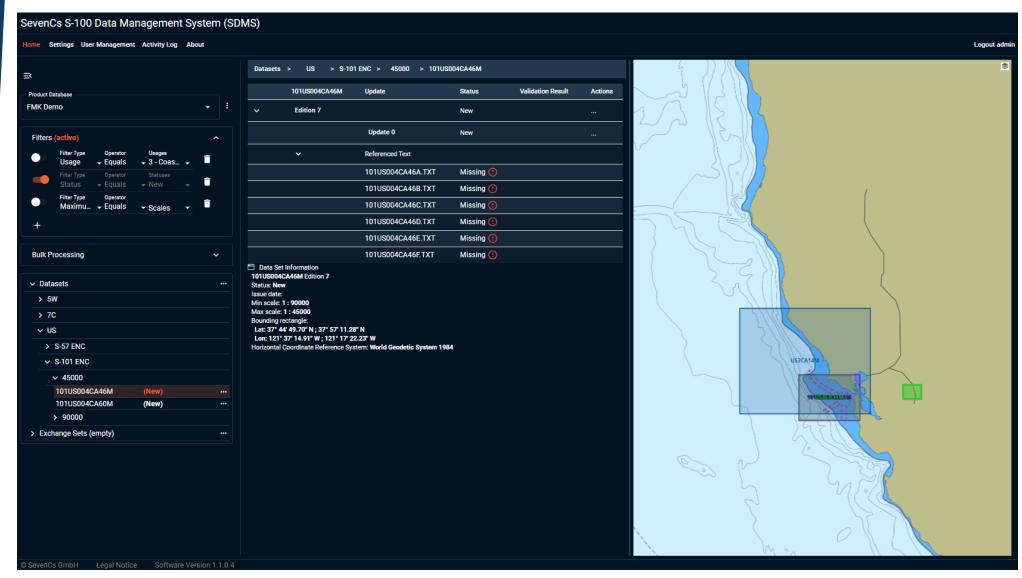


### SDMS News – New Improved Layout



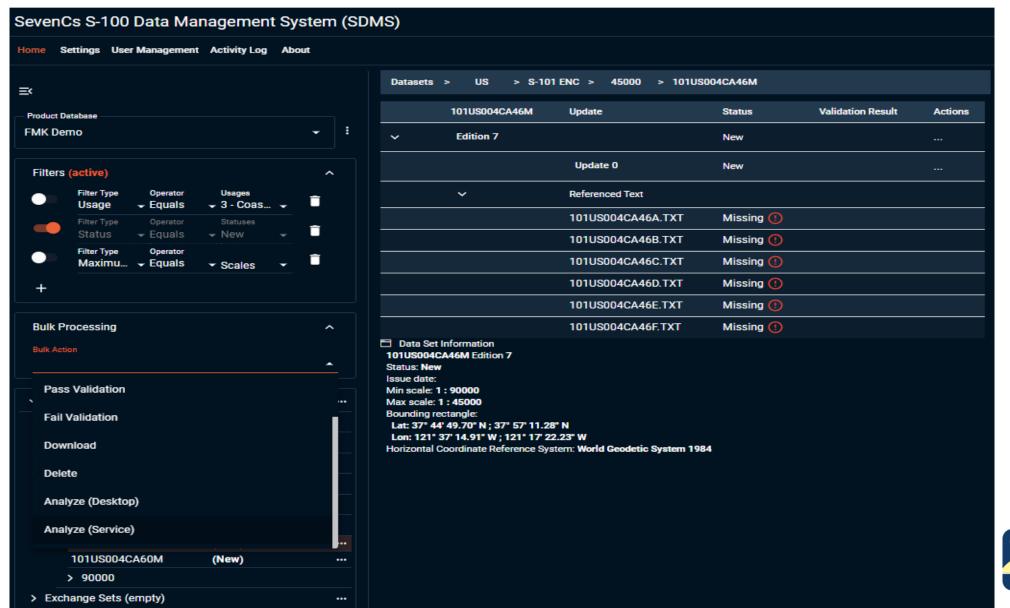


#### SDMS News – Data Filtering



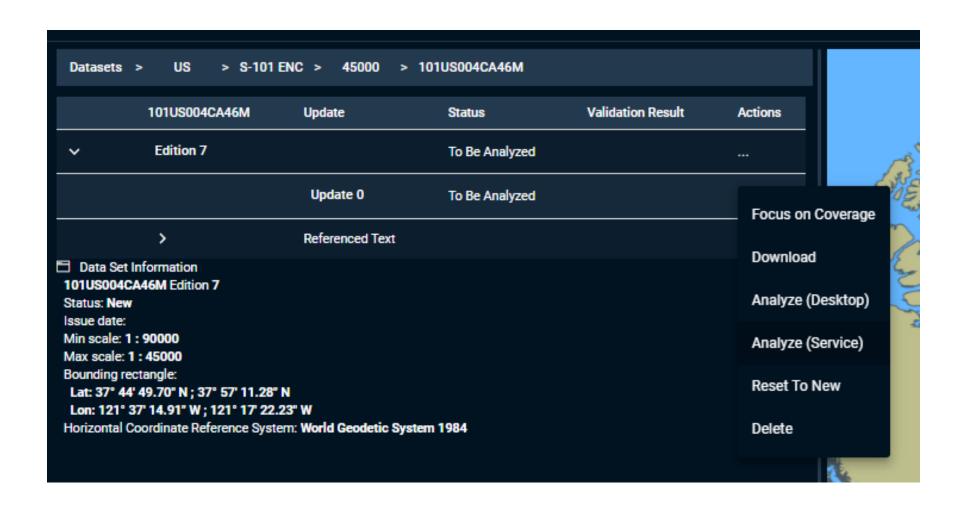


#### SDMS News - Bulk Processing



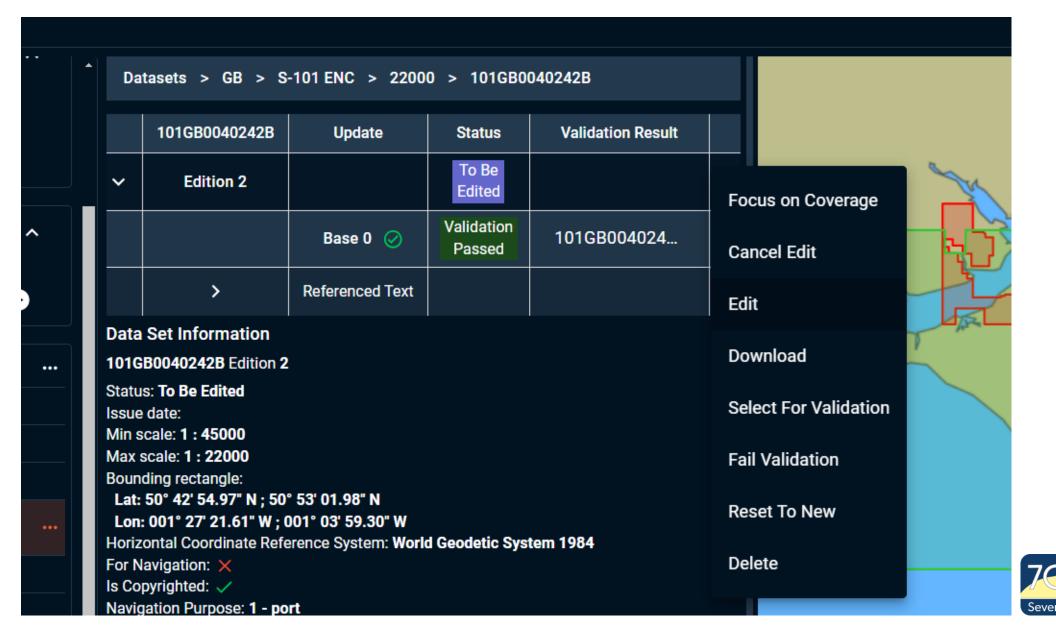


#### SDMS News – Integration with 7Cs Analyzer Service

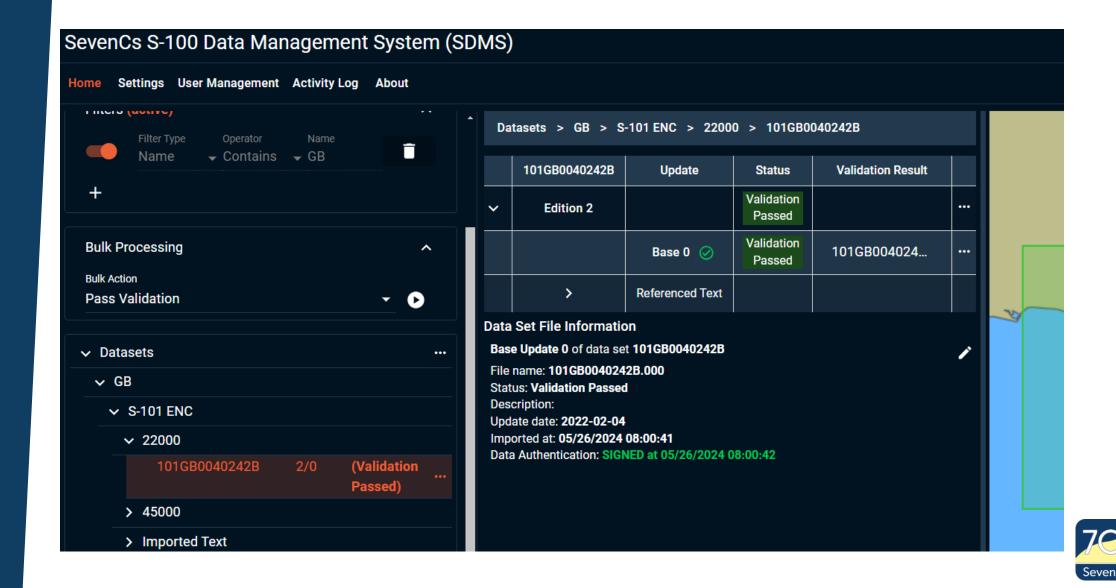




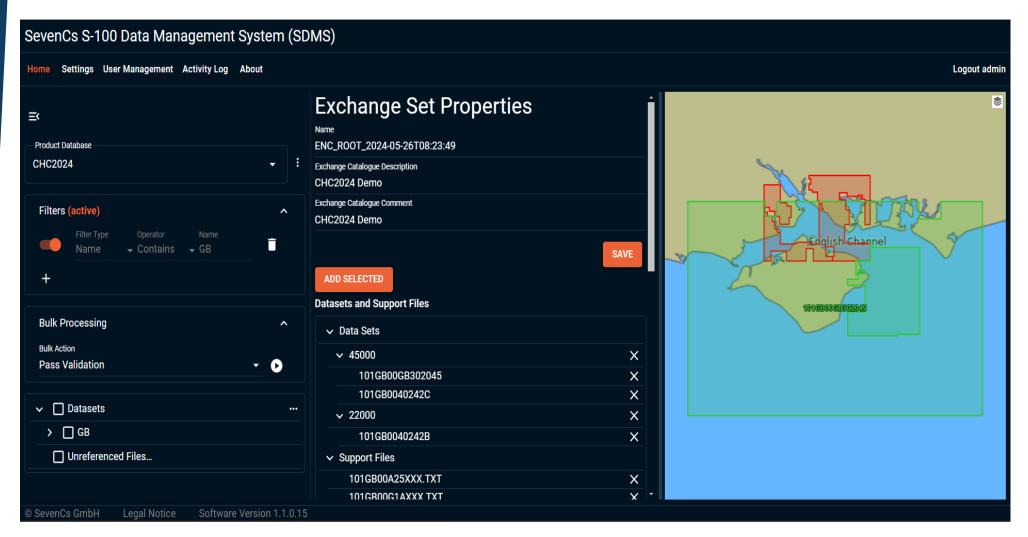
#### SDMS News – Integration with Caris Composer



#### SDMS News – Data Authentication (Signing)



#### SDMS News – Exchange Sets Creation for S-100 Datasets





#### Conversion Quality Assurance

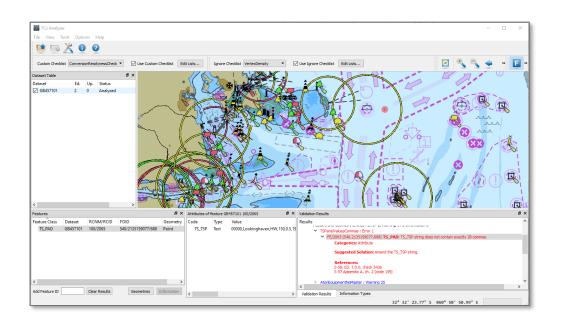
- How to make sure that the S-57 to S-101 conversion went well and no data was lost during the process?
- The goal is to increase the conversion completeness confidence level
- Independent service for Conversion Completeness Quality Assurance (as part of SDMS)

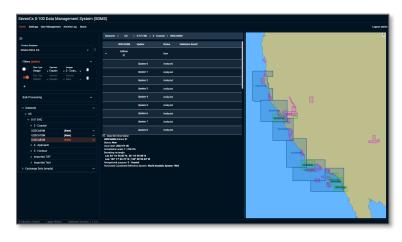




#### 7Cs Analyzer for S-57/S-101 validation – latest updates

- Version 5.2.1 released in May 2023
  - S-58 Edition 7.0.0
  - S-101 1.1.0
  - Integration with SevenCs S-100 Data
     Management System (SDMS)
- Next release (Q2 2024)
  - S-58 Edition 8.0.0
  - Alignment of S-101 checks with official IHO checks (S-100/S-101)
  - S-102 support

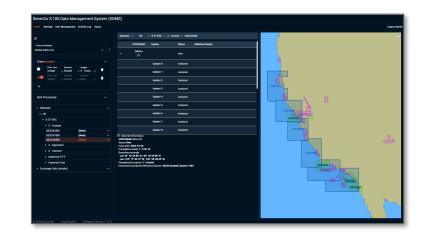


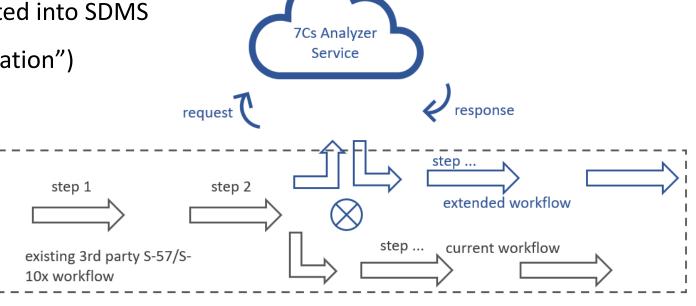




### 7Cs Analyzer Service API

- Release version has been completed
- Several trials have been set up to test the automation of the validation process
- Currently being integrated into SDMS (to support "silent validation")







#### S-101 validation

- S-101 validation rules in progress
- 7Cs Analyzer uses S-101 checks as far as they have been defined already
- very useful to assess status of conversion results
- and a huge amount of derived S-58 checks
  - iso checks
  - geometry
  - valid feature types
  - valid attributes, values

