



**PRIMAR**<sup>®</sup>

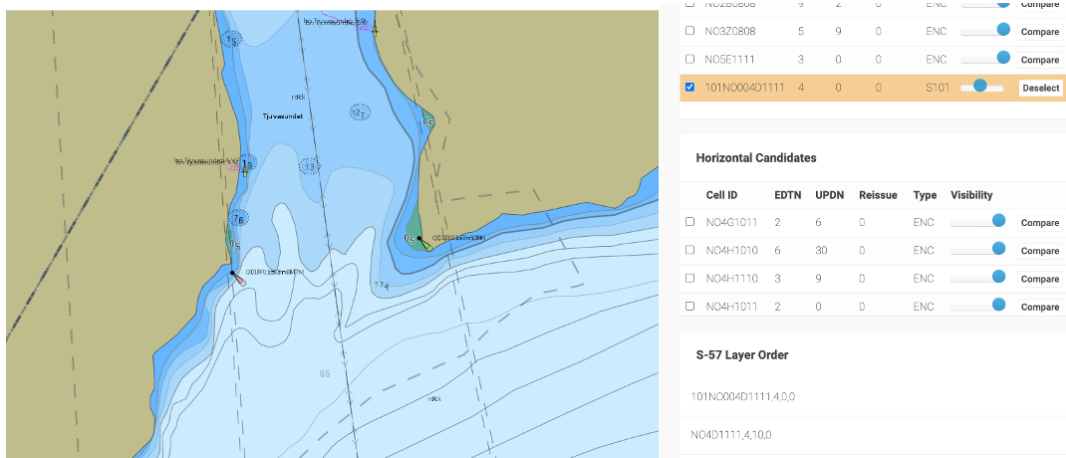
# **PRIMAR updates MBSHC 22**

# PRIMAR Updates 2021

- S-101 development
- S-100 Service
- PRIMAR Training Portal

# S-101 Focus 2021

- Develop support for S-101 functionality in VPN for QC
- S-100 part 15 signature service for HO datasets
- Object Query and Spatial Search



Cell ID	EDTN	UPDN	Reissue	Type	Visibility
<input type="checkbox"/> NO320808	5	9	0	ENC	Compare
<input type="checkbox"/> NO5E1111	3	0	0	ENC	Compare
<input checked="" type="checkbox"/> 101NC004D1111	4	0	0	S101	Deselect

Cell ID	EDTN	UPDN	Reissue	Type	Visibility
<input type="checkbox"/> NO4G1011	2	6	0	ENC	Compare
<input type="checkbox"/> NO4H1010	6	30	0	ENC	Compare
<input type="checkbox"/> NO4H1110	3	9	0	ENC	Compare
<input type="checkbox"/> NO4H1011	2	0	0	ENC	Compare

*Currently working with member nations to get their S-101 test data into the PRIMAR system and run all QC and validation tests*

- *Additional QC tests*
- *More testdata*

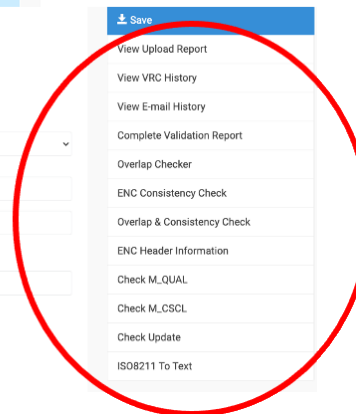
VRC Report for: NO4D1111

ENC Information

Name: NO4D1111  
 S-57 Edition: 3.1  
 Edition Number: 4  
 Update Number: 10  
 Reissue Number: 0  
 Recorded Date: 19.10.2020 15:42  
 Released Date:

Validation Information

DB Status: Prereleased  
 Validation Status: ECDIS check ok  
 Responsible: Navn Navn  
 Validation Status E-mail Reply: stig.osaland@ecc.no  
 Validated By: Test T  
 ECDIS Check:  Undefined  OK  Not OK



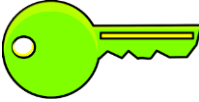

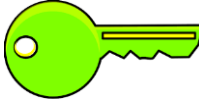






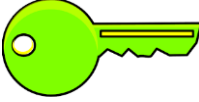


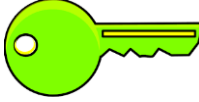










# S-101 Quality Control

- IHO S-101 PT Validation Checks
  - User interface for IHO S-101PTWG Critical Errors
  - User interface for IHO S-101PTWG Errors/Warnings
- Functionality in VRC and VPN online tools to support quality control functionality
- Object Query and Spatial Search for S-101 datasets
  - Useful for searching specific features/geometry before and after a conversion process

## S-101 signature service for HOs

- All S-10x datasets MUST be digitally signed
- Develop online service where HO signs own S-101 data before uploading into PRIMAR
- S-101 datasets will contain both HO and PRIMAR signatures when distributed
  - Recipient can authenticate distribution chain
- Dissemination/training of HOs

# Data Protection Policies

HO	PRIMAR	End-User/OEM
No encryption/no signature	 	 
 Note 1	 	 
	  	  
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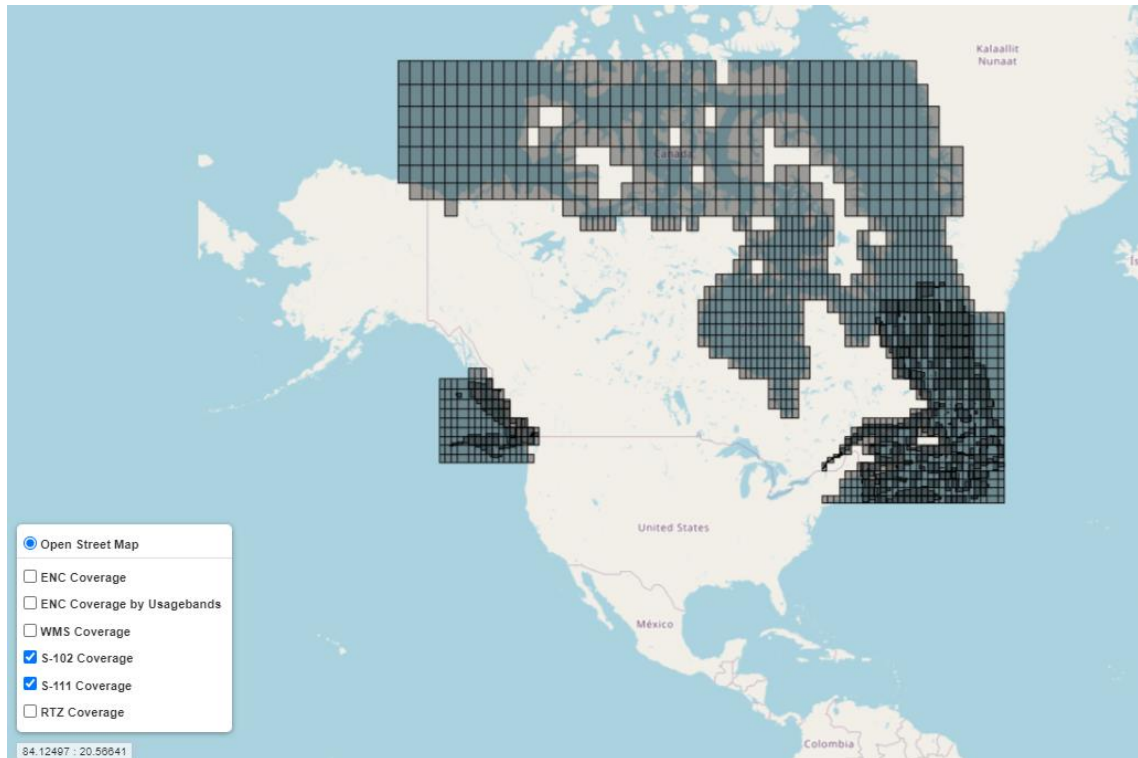
In principle, PRIMAR will continue to handle encryption and digital signatures as with S-57 ENC distribution.

- All datasets leaving PRIMAR will have a signature and be encrypted
- Either PRIMAR encrypts and signs data, or re-uses HO signatures and re-signs the data

Note 1: PRIMAR requires the HO to have a reliable online Permit service for obtaining end-user permits, alternatively PRIMAR encryption keys will be used

# S-100 RENC – PRIMAR

## S-100 Service Coverage



- Development conducted in partnership with Caris and CHS.
- PRIMAR Chart Catalogue
- 1265 S-102 datasets
- 1287 S-111 datasets

## S-100 RENC – PRIMAR

- Automatic upload from Caris Cloud Service inclusive support for Virtual PRIMAR Network (VPN) upload.
- 12, 9, 6, 3 month subscriptions
- 3 month trail, R&D and 1 month Demo subscriptions
- S-100 Part 15 encryption
- Available via PRIMAR Online services (API)
- S-104 data expected in the Service before end of 2021.

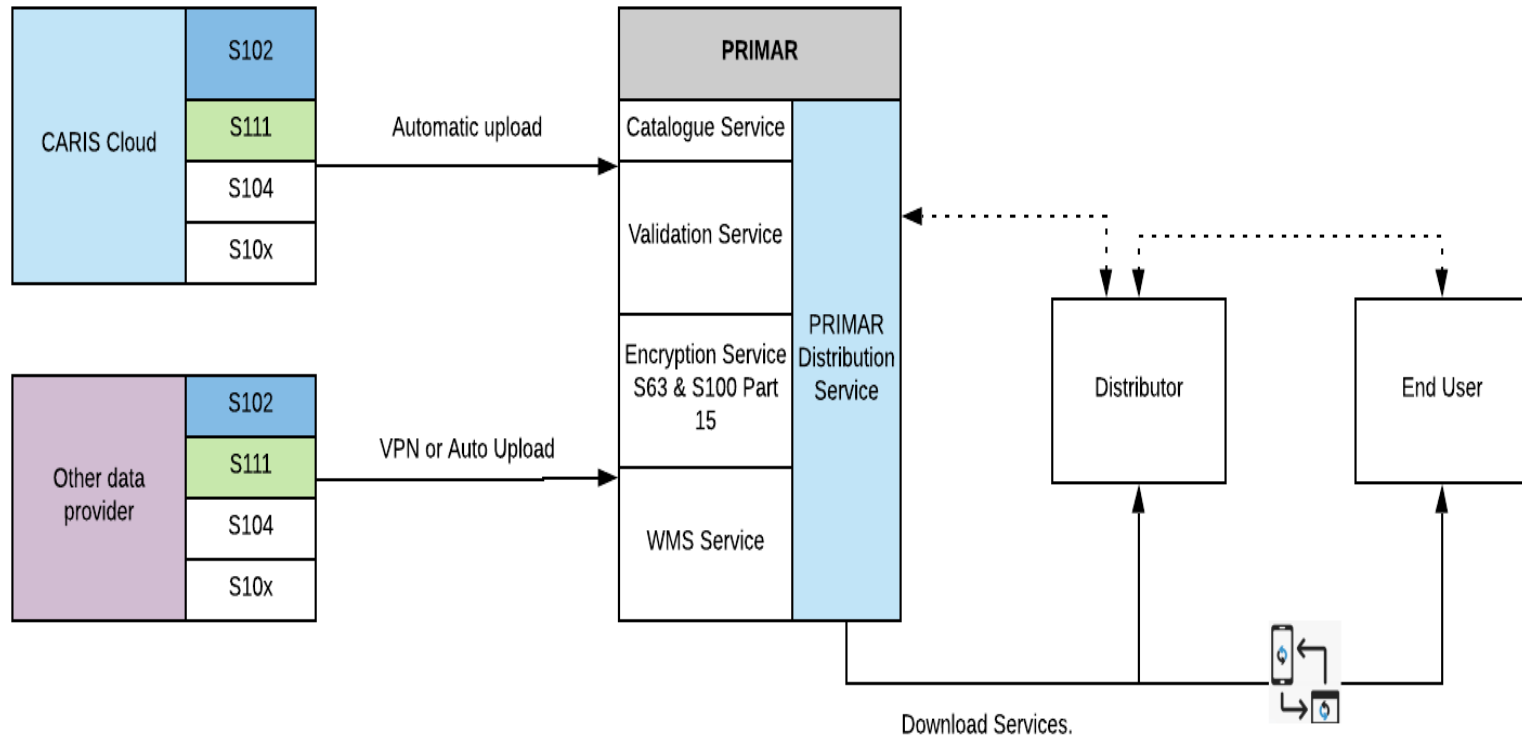


# S-100 RENC – PRIMAR

PRIMAR S-100 Service

Automatic cloud upload or manual/auto VPN upload.

Updates are pushed automatically to end user.



# PRIMAR Training Portal



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<https://primar.learnworlds.com>



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**PRIMAR Training Portal**

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# PRIMAR S-100 Training Courses

- Course syllabus
  - S-100 Overview – History, objectives, benefits, maintenance
  - IHO Registry – Structure, content, registers, testbeds
  - S-101 General – Features, attributes, relations, geometry++
  - S-101 Encoding, conversions and challenges, DCEG
  - S-101 Data Quality – CATZOQ, QOBD, uncertainty
  - S-100 part 15 Data Protection (3 hours) – *Available now!*
    - *Data Protection Light* course is in development (20-25 mins)
  - POSACC/SOUACC encoding in preparation of S-101 conversion (30 mins) – *Available now!*
- Certificate of Competence awarded upon completion