



NIPWG VTC (2023)

S-128 Testbed and Ed 2.0 Development

Agenda Item 8.5.1

NIPWG VTC02 (20 June 2023) 12:00 - 15:00 (UTC)



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UPDATE S-128 ED 1.0

International
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Organization

- Align with S-100 Ed 5.0
 - Attribute of Feature Catalogue (productID)
 - Data Identification (Dataset language, Dataset purpose, Update number)
 - GML Encoding Process
- S-128 Ed 1.0 development
 - S-128 Ed 1.0 works without any major technical problems
 - Distribution processes will be added for S-128 1.0. revision
- Other WG's Related Items
 - DQ Paragraph from DQWG
 - S-100 Security PT ToR about security scheme and creation of S-128 catalogue files by ENDS service providers

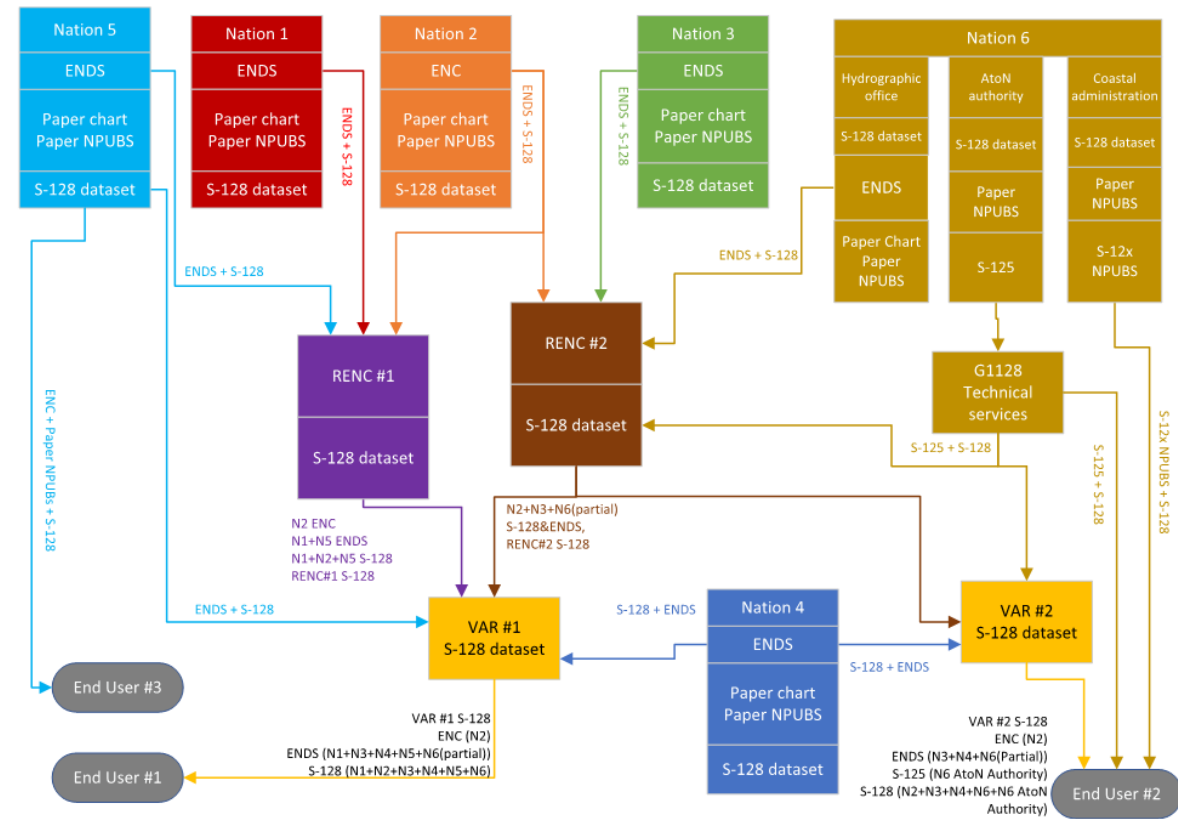


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UPDATE S-128 ED 1.0

International Hydrographic Organization

- Producer Code for Authentication
- Current S-63 producer code could not issued to RENC
 - IHO secretary considers how to handle
- New development schedule for the operational version
 - To meet the deadline to be a part of IEC 61174 Ed 5.0, Operational version S-128 should be approved by August 2024





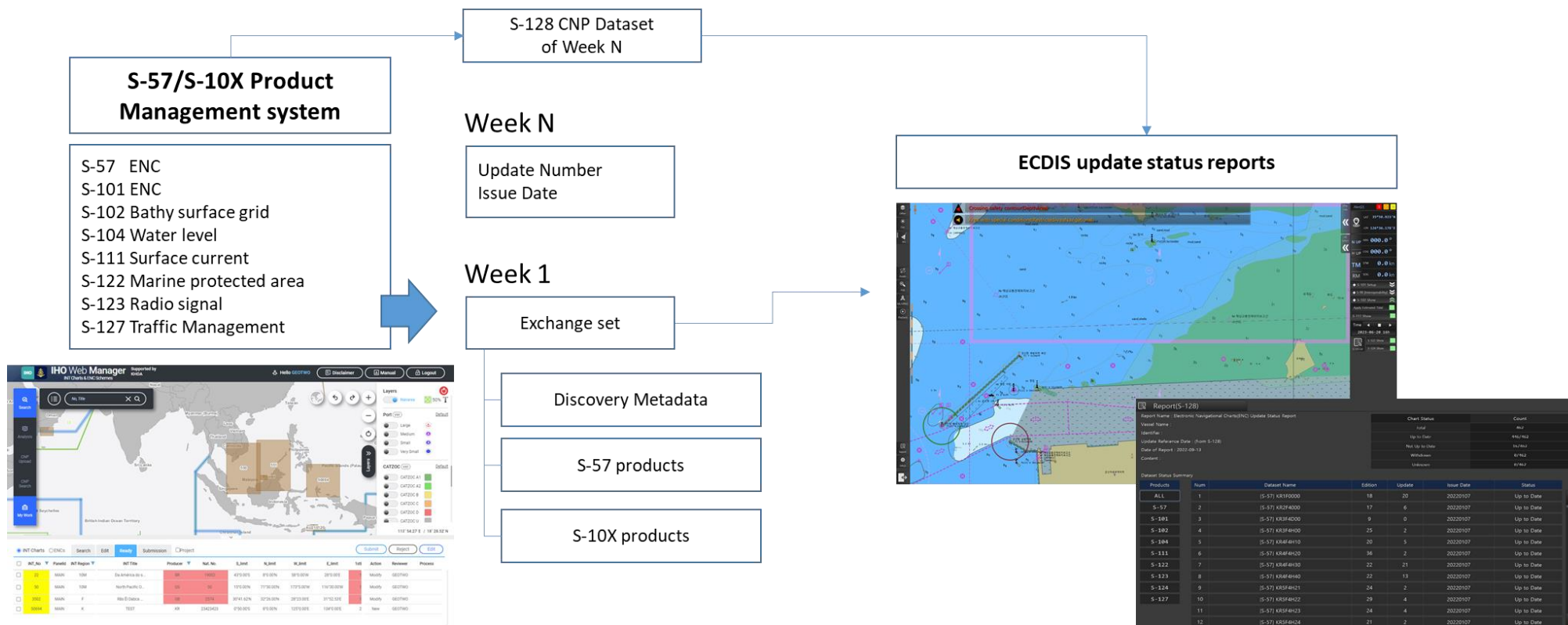
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TEST ACTIVITIES WITH S-128 ED 1.0

International Hydrographic Organization

• S-128 Ed 1.0 Status

- ROK(KHOA) and Germany(BSH) tested S-128 Ed 1.0 with data creation and testbed to validate structure and data model
- UKHO, IC-ENC, PRIMAR test plans for S-128





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OPERATIONAL EDITION OF S-128

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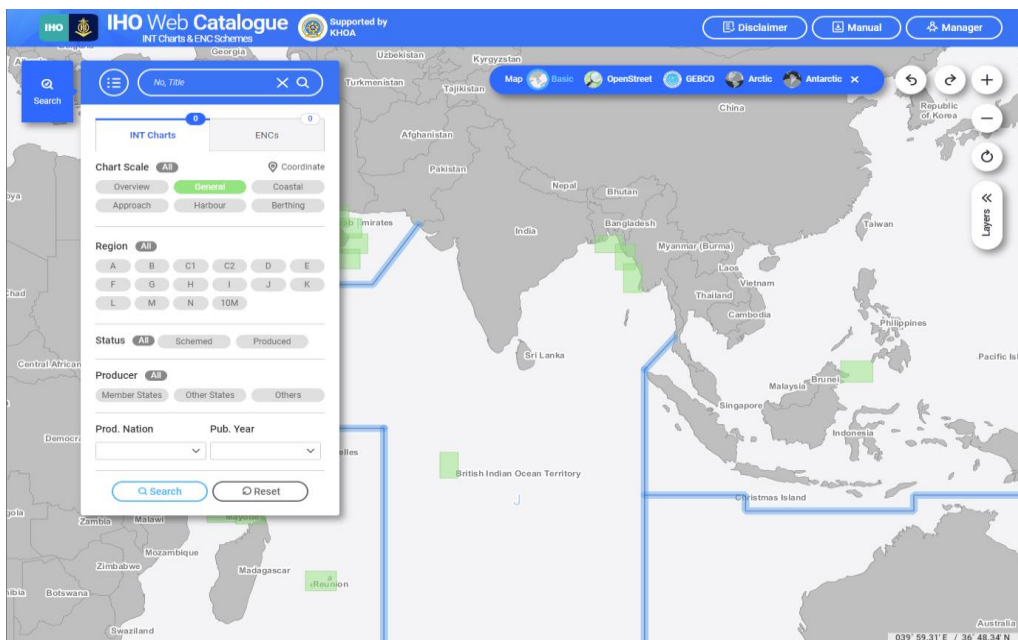
- New Timeline for S-128 Ed 2.
 - S-128 Ed 1.0 is practically usable (March '23, TSM9)
 - **HSSC15/24** HSSC noted the critical path and issues towards the development of the operational Edition of S-101 (testing phase dependent from other product specs such S-98, S-128, S-164, as well as S-102, S-104, timelines, funding) and endorsed the way ahead set out by the PT.
 - **HSSC15/91 HSSC** agreed on **CIRM's** recommendation to move moving the S-128 approval timeline into alignment with the timelines of the other product specifications critical to implementation of S-100 ECDIS, as this will avoid delay in the development of IEC 61174 edition 5.
 - Plans if we agree?
- The NIPWG members are invited to:
 - Utilize S-128 Ed 1.0 with national S-10X data



IHO S-128 TESTBED

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- Nautical Products Catalogue Service
 - Operate INToGIS service for S-128 Testbed
- Electronic Navigational Data Manager
 - Develop END manager with S-100 DF ECDIS



The screenshot shows the Report(S-128) interface. The report name is "Electronic Navigational Charts(ENC) Update Status Report". The vessel name is empty. The identifier is empty. The update reference date is "(from S-128)". The date of report is "2022-09-13". The content is empty. The chart status summary table is as follows:

Chart Status	Count
Total	462
Up to Date	446/462
Not Up to Date	16/462
Withdrawn	0/462
Unknown	0/462

The dataset status summary table is as follows:

Products	Num	Dataset Name	Edition	Update	Issue Date	Status
ALL	1	[S-57] KR1F0000	18	20	20220107	Up to Date
S-57	2	[S-57] KR2F4000	17	6	20220107	Up to Date
S-101	3	[S-57] KR3F4D00	9	0	20220107	Up to Date
S-102	4	[S-57] KR3F4H00	25	2	20220107	Up to Date
S-104	5	[S-57] KR4F4H10	20	5	20220107	Up to Date
S-111	6	[S-57] KR4F4H20	36	2	20220107	Up to Date
S-122	7	[S-57] KR4F4H30	22	21	20220107	Up to Date
S-123	8	[S-57] KR4F4H40	22	13	20220107	Up to Date
S-124	9	[S-57] KR5F4H21	24	2	20220107	Up to Date
S-127	10	[S-57] KR5F4H22	29	4	20220107	Up to Date
	11	[S-57] KR5F4H23	24	4	20220107	Up to Date
	12	[S-57] KR5F4H24	21	2	20220107	Up to Date

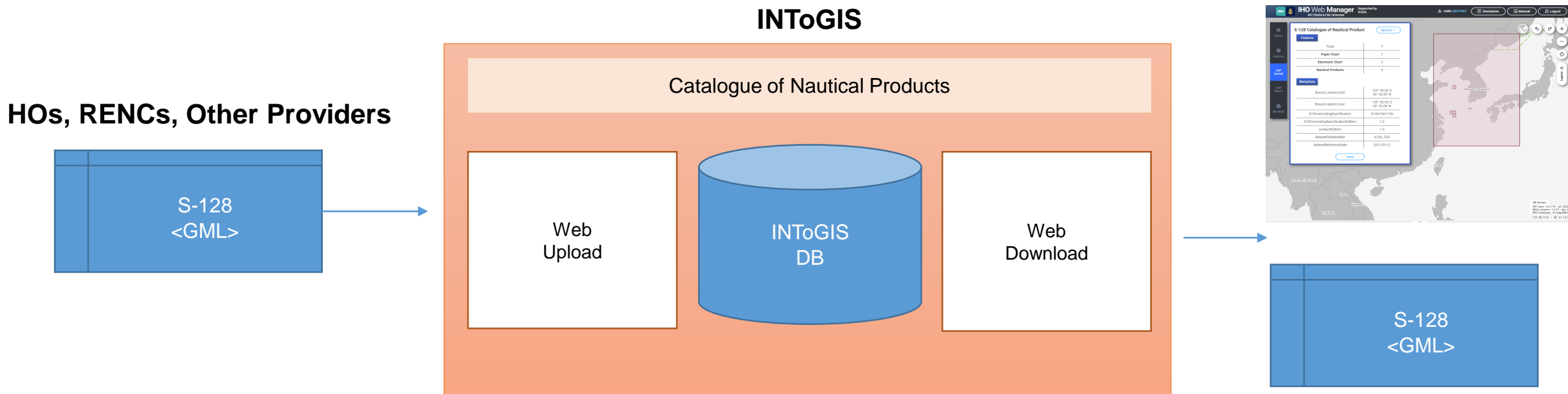


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S-128 ON INTOGIS

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- Extended INTOGIS with S-128 sharing
 - Test Site: <http://119.195.114.103/webManager>
 - INT Chart, ENC Web Catalogue Service
 - INT Chart maintenance and planning





IHO S-128 ON INTOGIS

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- Testbed Updates
 - Share catalogue of nautical product through web-upload of S-128 dataset sharing

S-128 Catalogue of Nautical Product

Feature

Total	
Paper Chart	
Electronic Chart	
Nautical Products	

MetaData

Bound LowerCorner	
Bound UpperCorner	
S100.encodingSpecification	
S100.encodingSpecificationEdition	
productEdition	
datasetFileIdentifier	
datasetReferenceDate	

Upload

GML

Choose File No file chosen

ok cancel

Save

S-128 Catalogue of Nautical Product

Feature

Total	7
Paper Chart	1
Electronic Chart	2
Nautical Products	4

MetaData

Bound LowerCorner	129° 00.00' E 34° 30.00' N
Bound UpperCorner	129° 30.06' E 35° 00.06' N
S100.encodingSpecification	S-100 Part 10b
S100.encodingSpecificationEdition	1.0
productEdition	1.0
datasetFileIdentifier	S128_TDS
datasetReferenceDate	2021-03-12

Upload

CNP Upload

CNP Search

My Work

Save

DB Version
INT chart : 3.0.174 - Jul. 2022
ENCs scheme : 1.2.97 - Apr. 2021
ENC catalogue : 26 Aug 2021
027° 41.02' E / 25° 50.13' N



IHO S-128 ON INTOGIS

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- Testbed Updates
 - Share coverage of different S-100 products by uploading S-128

The image shows two side-by-side screenshots of the IHO Web Manager interface, specifically the 'S-128 Catalogue of Nautical Product' upload screen. The interface includes a search bar, navigation menu, and a map of the region.

Left Screenshot (Upload Test S-128 RoK(KR)):

The 'S-128 Catalogue of Nautical Product' window is open, showing a summary table and metadata.

Feature	Count
Total	8
Paper Chart	1
Electronic Chart	1
Nautical Products	6

MetaData	Value
Bound LowerCorner	129° 00.00' E 34° 30.00' N
Bound UpperCorner	129° 30.06' E 35° 00.06' N
S100:encodingSpecification	S-100 Part 10b
S100:encodingSpecificationEdition	1.0
productEdition	1.0
datasetFileIdentifier	S128_Sample_KR
datasetReferenceDate	2021-03-12

The map shows a red box highlighting the Republic of Korea (KR) region.

Right Screenshot (Upload Test S-128 Test country(TI)):

The 'S-128 Catalogue of Nautical Product' window is open, showing a table of electronic charts.

Chart Number	Producer	Scale	Issue Date	Product Type	Geometry
101TI001SAMPLE	TI	12000000	2023-01-02	ENC	Y
57TI00SAMPLE	TI	180000	2023-02-01	ENC	Y

The map shows a red box highlighting the Test country (TI) region.

Upload Test S-128 RoK(KR)

Upload Test S-128 Test country(TI)



IHO S-128 ON INTOGIS

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- Testbed Updates
 - Data search by product
 - INT chart / electronic chart / S-100 products(route monitoring products)
 - Download files for S-128 GML, Excel, PDF format

IHO Web Catalogue
INT Charts & ENC Schemes

Supported by KHQA

Disclaimer Manual Manager

Search

No. Title

Chart 0

NPub 0

Chart All

Paper S-57 S-101

S-102 S-104 S-111

S-124 S-129 Other

Producer Issuance Year

Search Reset

IHO Web Catalogue
INT Charts & ENC Schemes

Supported by KHQA

Disclaimer Manual Manager

Search

No. Title

Chart 1

NPub 0

Title

1001

Download XLS PDF GML

Back

1001

Title	1001
Producer	KR
Product ID	Paper
Product Type	paper nautical chart
Chart Number	1001
Scale	2000000
Copyright	Korea Hydrographic and Oceanographic Agency
Edition Date	2018-10-
Edition Number	2
Issue Date	2018-10-

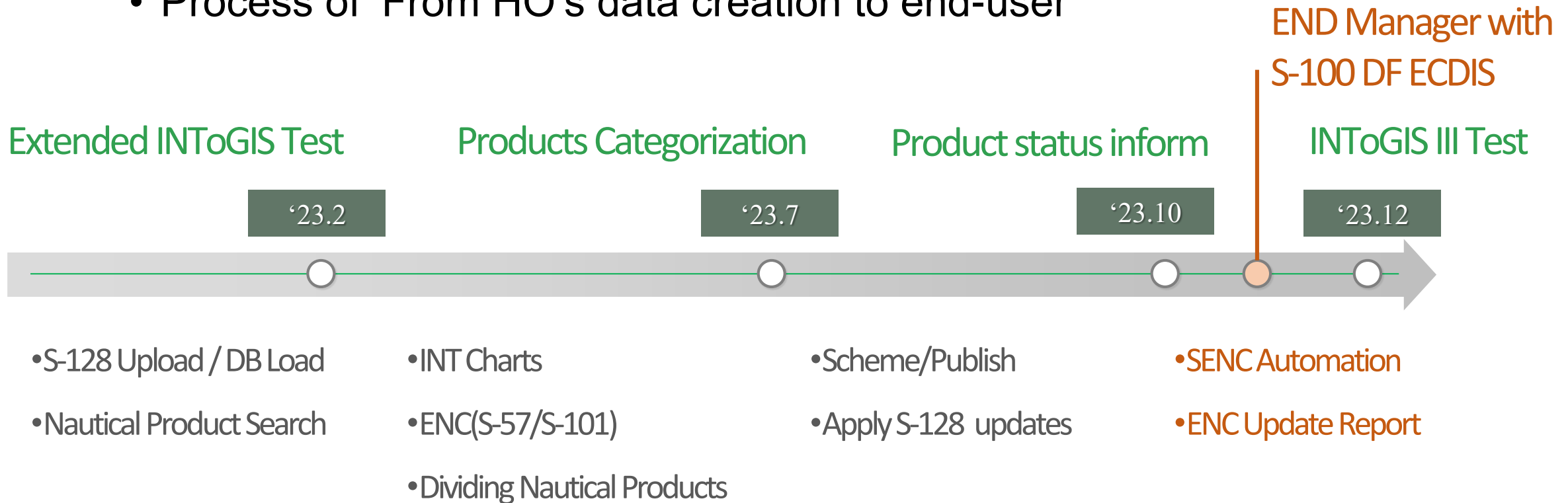


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S-128 ON INTOGIS

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- Validate the S-128 as Operational Level
 - Create S-128 data through INTOGIS
 - Check data's up-to-dateness through S-100 DF ECDIS and END Manager
 - Process of 'From HO's data creation to end-user'





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S-128 ON INTOGIS

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- The NIPWG members are invited to:
 - Discuss about new function for creating S-128 data using S-10X metadata in INTToGIS