

Test Data Sets for S-100 Navigational Equipment

3.3-3.6 Mar. 2020



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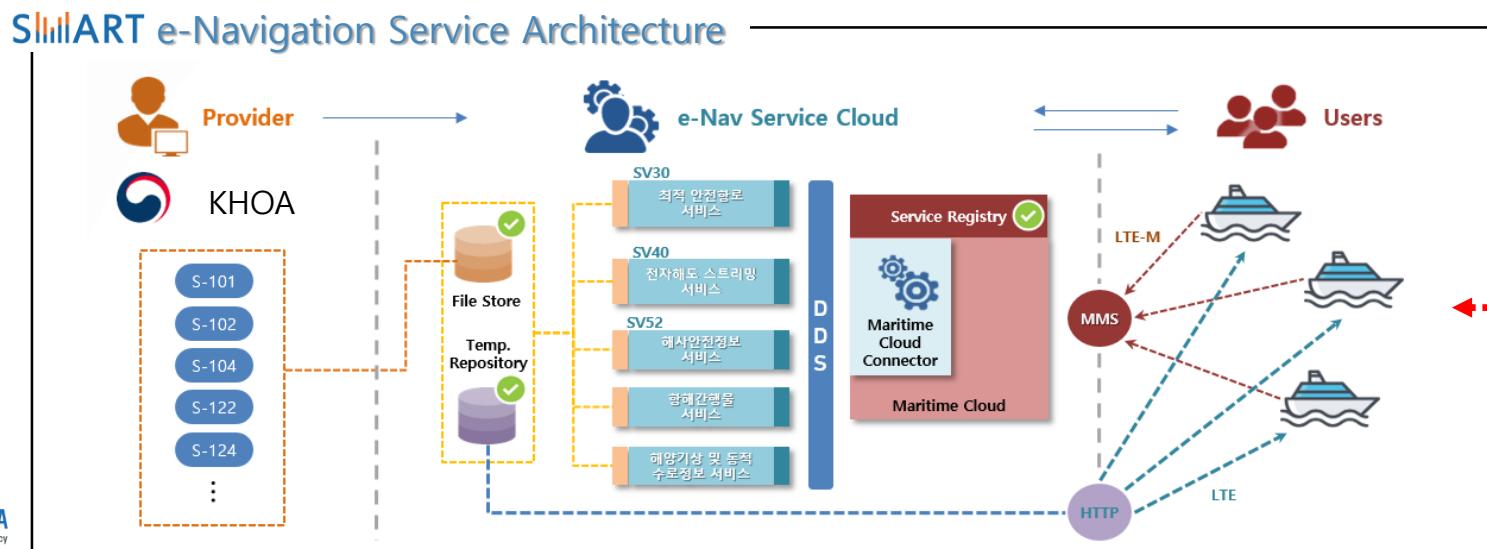
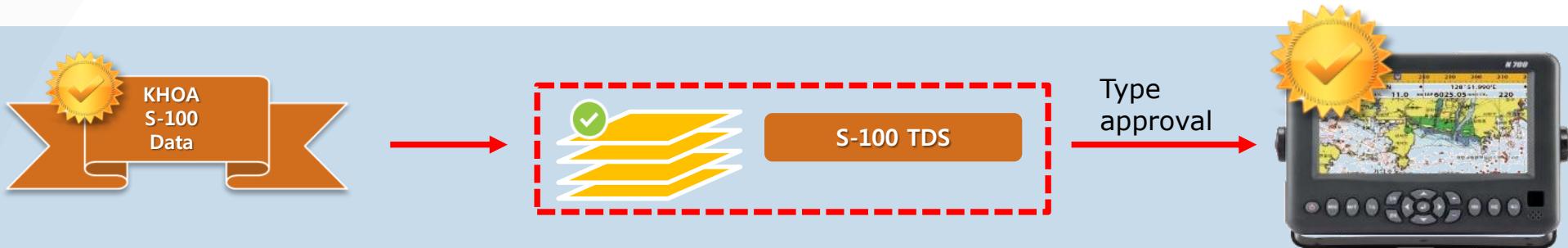


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2. TDS Organization
3. TDS for S-100 PSs

1 Introduction of TDS

- ❖ S-100 hydrographic products will be provided via SMART e-Navigation service
- ❖ KHOA S-100 Test Data Sets is a package supporting the check to the e-Nav. system(ECS)



2 TDS Organization

- ❖ TDS is composed of test scenario and test data for type approval in SMART e-Nav. Equipment
- ❖ Based on S-64 scenario and test data
- ❖ Reference to S-100 PSs edition 2019.

TDS for S-100 PSs

No	Product	Ed.	Format
1	S-101	1.0.0	ISO 8211
2	S-102	2.0.0 draft	HDF 5
3	S-104	0.0.7 draft	HDF 5
4	S-111	1.0.0	HDF 5
5	S-122	1.0.0	GML
6	S-123	1.0.0	GML
7	S-124	2.0.0 draft	GML
8	S-127	1.0.0	GML

IHO S-64

IHO TEST DATA SETS IN ECDIS
Edition 0.0.2 | July 2017
INSTRUCTION MANUAL
FOR THE USE OF
IHO TEST DATA SETS IN ECDIS
Publication 8-44
Publication date: 2017-07-01
Language: English
Format: PDF
File size: 2.2 MB
Page count: 28
Last update: 2017-07-01
Version: 0.0.2

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KHOA S-100 TDS

< Test Scenario >

S-100 인증 데이터셋 테스트 시나리오

2019.12

해양수산부
국립해양조사원

< Test Data Sets >

- S100_DataProtection_TDS
- S101_TDS
- S102_TDS
- S104_TDS
- S111_TDS
- S122_TDS
- S123_TDS
- S124_TDS
- S127_TDS

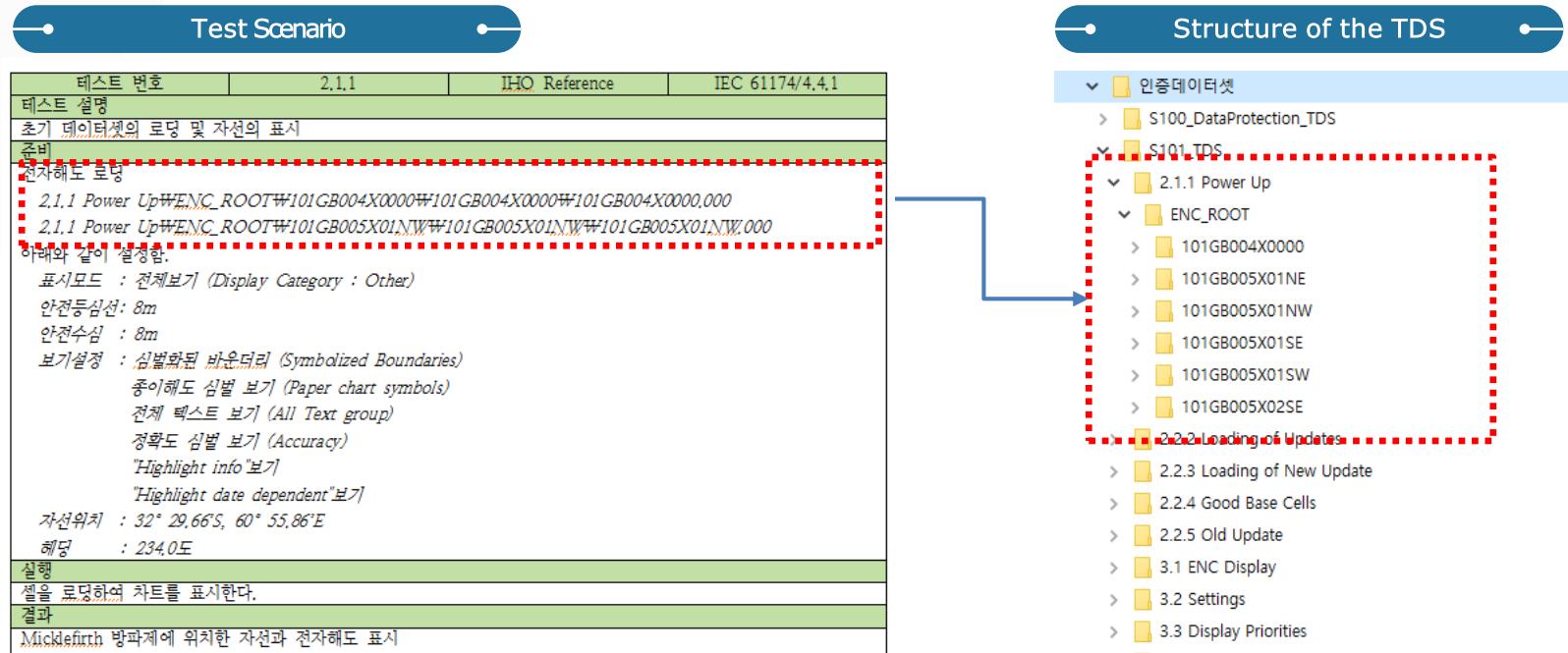
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2 TDS Organization

Test Data Sets

- ❖ Test Data Set is a set of data required to perform the test scenario



Remark

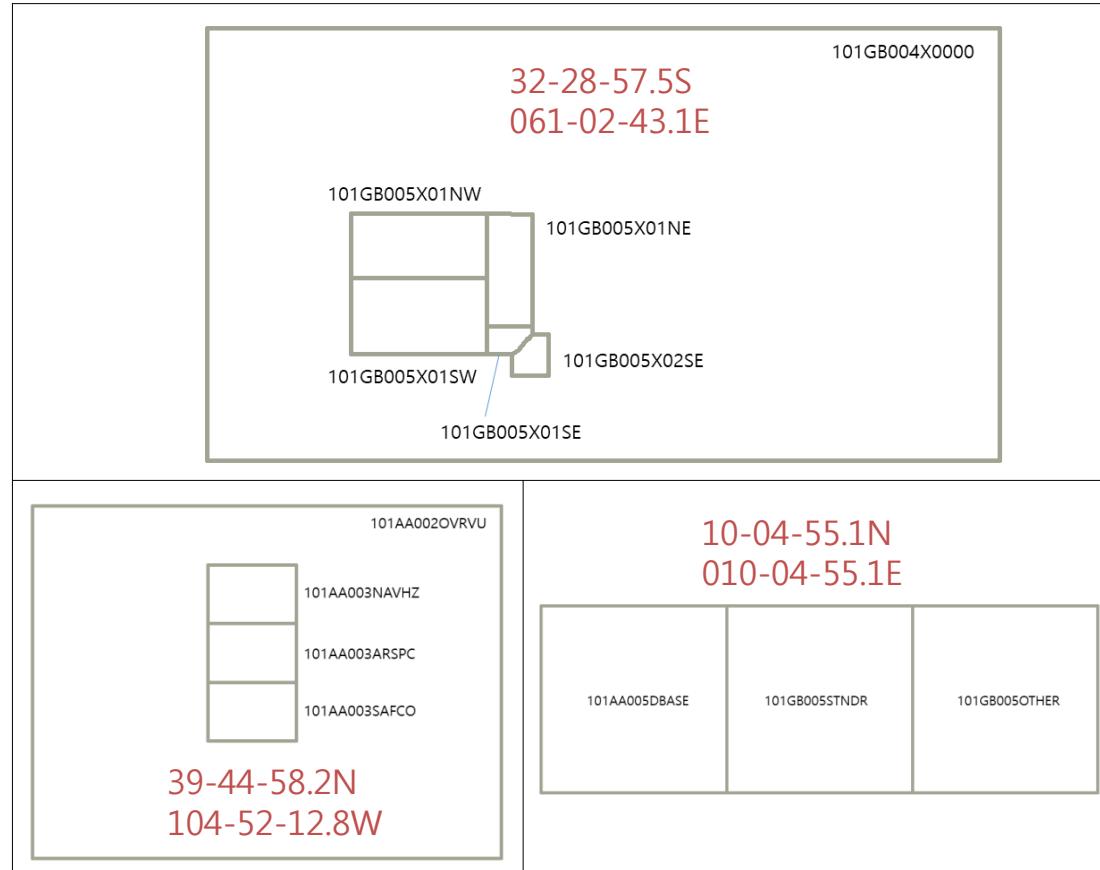
- The Test Data Set should use the path file specified in the scenario.
- One TDS file can be used for multiples scenarios.

2 TDS Organization

Test Data Sets

- ❖ Area of the TDS : Juss Land (IHO S-64 TDS)

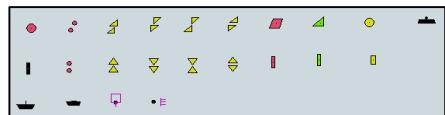
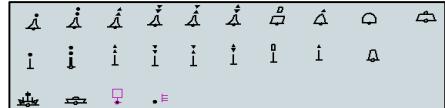
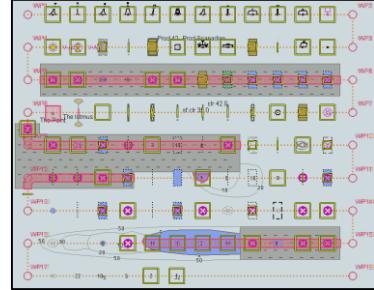
INDEX map of the TDS



3 S-101 TDS

Main testing items

- Loading TDS
- Symbols, lines, and boundaries of S-101 Feature
- Display basic navigational functions (Scale-bar, Lat/Lon, Ship's position etc)
- Alarms to dangerous area (Pending)



Main test Scenario

Chart loading and updates

Information that should appear when loading ENCS and Updates files

Chart display

Checking the symbol representation of points, lines, and area

Function to the chart

Check whether the system can check information on the chart as navigational equipment

Detection and notification of navigational hazards

Detect hazardous features present on the chart and ensure the alerts or warnings are available

Area of special condition

Ensure that notification are available for restricted area, prohibited area, or areas of caution

Safety depth detection and notification

Ensure that the navigation hazards are not notified by safety depth and depth counters setting

New to S-101

New feature “TestPlacement” is appropriate

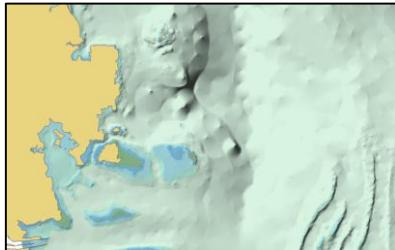
Plug & Play

Check whether the Catalogues included in the exchange set are applicable

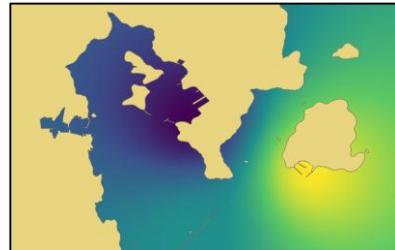
3 S-102 / S-104 / S-111 TDS

Main Testing Items

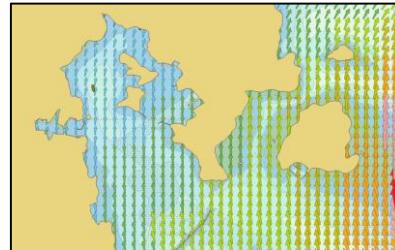
- Data loading and display
- Used as supplementary information for navigation
- Display attributes of S102, S104, S111



S-102



S-104



S-111

Main Test Scenario

Load and Display

Load data sets and check basic display

Over Scale

If the current display scale is greater than the Min. Display Scale, verify that the over-scale pattern is displayed

Display S-102 for route planning

Ensure that the user is informed of the hazard depth when planning and monitoring the route

Display S-102 profile for route planning

Ensure that the route planning provides the ability to output depth profiles along the course

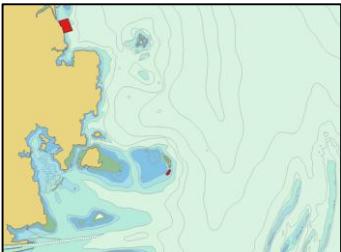
Display feature

Check the coordinates of the location, its corresponding height value, the indication of the uncertainty value, and the information in the tracking list at that location

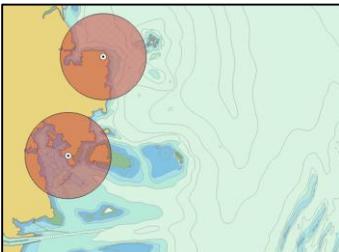
3 S-122 / S-123 / S-124 / S-127 TDS

Main Testing Items

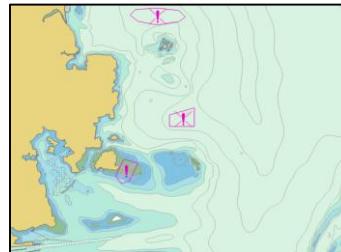
- Loading data sets and display
- Used as supplementary information for navigation
- Display attributes of S102, S104, S111
- Alerts on S-124 navigation warning



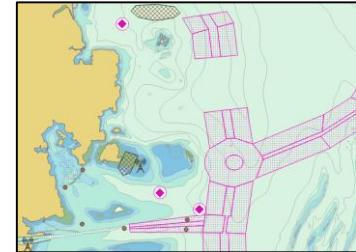
S-122



S-123



S-124



S-127

Main Test Scenario

Loading and Display

Data loading and display, also check the association between features.

S-124 symbols

Check to display S-124 data

Detection and Alarms

Ensure that you are notified of a valid navigational alarm when planning and monitoring the route

감사합니다

Q & A

