Alignment of the Inland ENC Product Specification with S-101 (S-401)

IEHG Meeting 2017

Niteroi, Brasil

IENC Product Specification S-401

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- ○ Time schedule

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RIS COMEX follows the European project CoRISMa

- Bernd Birklhuber reported at our last meeting in Nanjing regarding the S-401results CoRISMa
- An aim of COMES is to finalize this work:
  - The end product will be a draft product specification of the Inland ECDIS Standard (S-401) in accordance with maritime S-101 specification. The vision is:
    - In mouth areas of inland waterways can be used the same navigational equipment as in coastal areas
    - Further developments of the maritime ECDIS standard are generally available for the navigation on inland waterways
    - The registration of maritime and inland objects and attributes in a common IHO database enforces a harmonized data model for maritime and inland ENC

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Adaptation of the Inland ENC product specification (S-401) to S-101

- Tasks:
  - Integration of all adopted Change Requests of IEHG into the draft of the S-401 main document
  - Integration of amendments of S-101 into the draft of the S-401 main document
  - Development of a draft of the European Inland ECDIS standard based on the S-401 Product Specification for Inland ENCs, including the application related requirements
  - The final (word) document has to be transferred into the UML (Enterprise Architect). UML is used by the IHO.

- Status quo:
  - We received an actual draft version of S-101 in July and Gert Morlion upgraded our S-401 main document including the adopted Change Requests

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Creating the Inland ENC Feature Catalogue (IENC FC) by "tailoring" and using the Feature Catalogue Builder of IHO

- Tasks:
  - Integration of all adopted Change Requests of IEHG into the draft of the IENC FC, in the word-document
  - Integration of further amendments of S-101 into the draft of IENC FC, in the word document
  - Registration of all new inland specific features, attributes and ranges of values in the S-100 registry, out of the previous described word documents
  - Creation of the S-401 feature catalogue with the feature catalogue builder
- Status quo:
  - Status of registration in the IHO registry database is unknown
  - As Pieta Kluytenaar retired we need a successor

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Creating the Inland ENC Portrayal Catalogue (S-401) by "tailoring" and using the Portrayal Catalogue Builder

- ○ Tasks:
  - ○ Integration of further amendments of S-101 into the draft of IENC FC (display priorities, display rules, symbols, colours, linetypes…(former lookup tables))
  - ○ Registration of all inland specific symbols, colors, line styles, fonts, XSLT instructions etc. in the Inland ENC Portrayal Domain of S-100 registry
  - ○ Development of XSLT instructions for notice mark symbols with numbers and conditional symbology instructions (if possible in accordance with IHO)
  - ○ Investigation of the possibility to create the "footpoint" of a notice mark symbol with XSLT
- ○ Status quo:
  - ○ Status of registration in the IHO registry database is unknown
  - ○ As Pieta Kluytenaar retired, we need a successor

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SVG symbol library within the scope of IES S-401

- [S-401symbol library generator](#)
- [S-401-EUR-Symbole_RUS_AtoNs-mod-041017.xls](#)
- [List_of_all_Inland_AtoN_symbols-041017.xlsx](#)

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Development of tools for creating and maintaining the Inland ENC Encoding Guide (IES Encoding Guide Builder)

- Tasks:
  - System specification
  - One tool is for providing the IES Encoding Guide in an standardized data format (like DocBook). This tool allows the maintenance of the EG with standard application tools.
  - Another tool is for checking of the IENC Encoding Guide with the feature catalogue to ensure the accordance with the IES data model.
  - Awarding procedure
  - Test phase and quality assurance

- Status quo:
  - I refer to the topic "The use of DocBook format for the IENC Encoding Guide"

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Development of an Inland ECDIS S-401 test application

- Tasks:
  - An open private-public partnership for testing:
    - Inland ECDIS S-401 on board application
    - Adoption of a chart production environment to S-401

- Status quo:
  - To do

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Time schedule

○ In general:

We have dependencies from products and documents which are provided from the International Hydrographic Organization (IHO). Delays or changes of the timeline by IHO can cause delays in our timeline, too.

○ Adaptation of the main document (draft): *09/2017 – 08/2018*

○ Creating the Inland ENC Feature Catalogue (draft): *09/2017 – 08/2018*

○ Complete Inland ENC Portrayal Domain and create the Inland ENC Portrayal Catalogue (draft): *09/2018 – 08/2019*

○ Development of the IES Encoding Guide Builder: *04/2017 – 03/2018*

○ Development of an Inland ECDIS S-401 test application: *01/2019 – 12/2019*

○ Finalization of the documents after feedback of the IEHG: *11/2018 – 12/2019*

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Thank you for your attention!

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