

Inland ECDIS Encoding Guide in DocBook data format



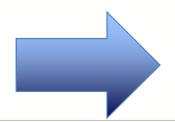
Content

- Motivation for providing the IENC EG in a semantic markup language
- Why DocBook?
- Status quo regarding the transfer of the IENC EG 2.4 into DocBook
- Future prospects



Motivation for providing the IENC EG in a semantic markup language

- Demand for a nationally adapted IENC EG with:
 - International core part (Standard IENC EG)
 - Complemented by regionally adapted encoding rules and pictures
 - National language for parts of the documents
- User-friendliness
 - Text editing supported by pre-defined document structure
- Export functionality for standard document formats (pdf, html, e-pub)
 - Automated document styling (by the use pre-defined stylesheeds)



DocBook



Why DocBook?

- DocBook is a <u>semantic</u> <u>markup language</u> (XML) for technical documentation
- DocBook enables its users to create <u>document content in a</u> <u>presentation-neutral form</u> that captures the logical structure of the content
 - set: Titled collection of one or more books, can be nested with other sets
 - **book:** Titled collection of chapters, articles, and/or parts, with optional glossaries, appendices, etc.
 - part: Titled collection of one or more chapters—can be nested with other parts, and may have special introductory text
 - article: Titled, unnumbered collection of block-level elements
 - chapter: Titled, numbered collection of block-level elements—chapters don't require explicit numbers, a chapter number is the number of previous chapter elements in the XML document plus 1
 - **o appendix:** Contained text that represents an appendix
 - **dedication:** Text represents the dedication of the contained structural element
- The DocBook data format contains only the logical structure of the document and no rules for the graphical presentation



Why DocBook?

- Technically, DocBook documents can be handled with all text editors.
- Special DocBook editors, like "XML mind" or "Oxygen" support the document structure by so called "Snippets". These are special masks for supporting the input, e.g. text + lists + pictures.
- Special DocBook editors support also the export of DocBooks in graphically formatted formats, like PDF, HTML, e-pub. In this case specific "XSL-Stylesheets" are needed.



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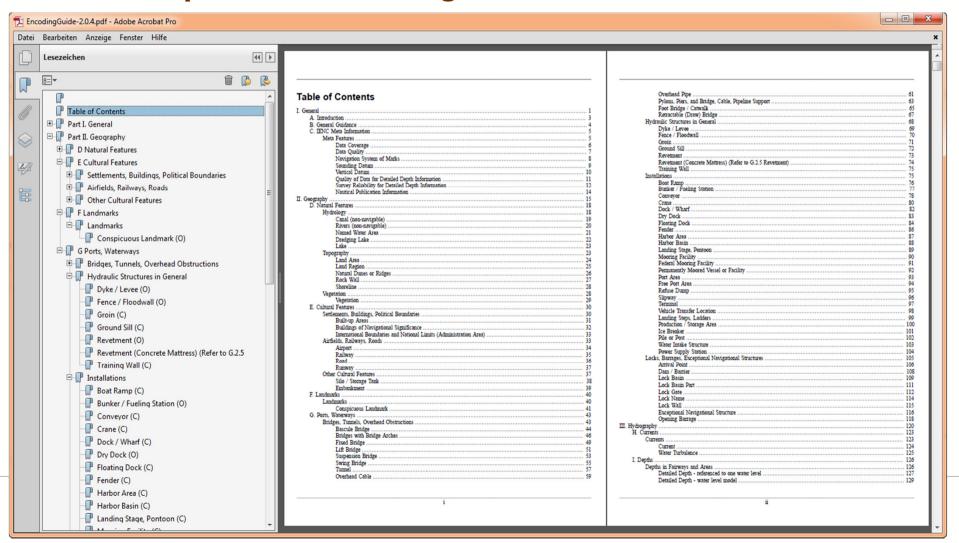
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Status quo of transferring the IENC EG 2.4 into DocBook

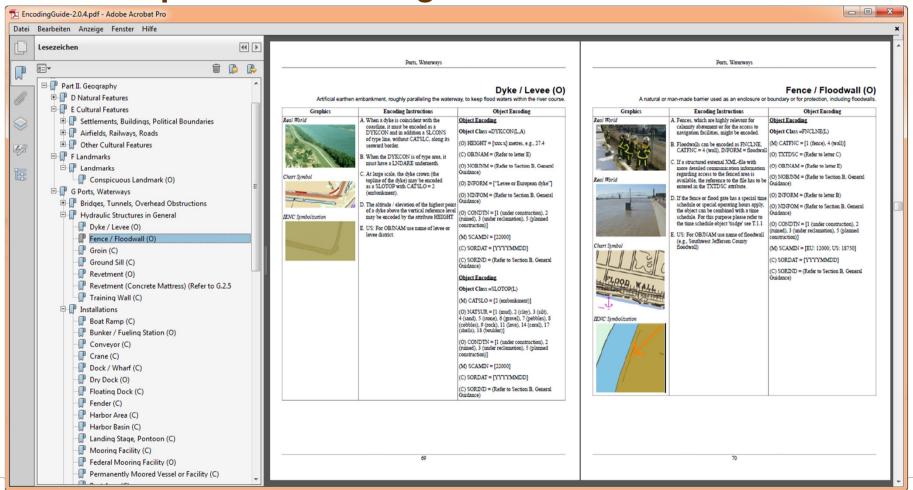
- First step of realization:
 - The definition of our Encoding Guide document structure in DocBook format
 - "Snippets", regarding our document structure, for supporting the maintenance of the document
 - The implementation of the content (Inland ECDIS Encoding Guide 2.4)
 - A user's manual, or instruction videos describing the handling of the "Snippets"
 - (A DocBook editor is needed, like "Oxygen" for the maintenance of the Encoding guide)
 - "XSL-Stylesheets", which include the rules for the graphical representation in PDF format



Status quo of transferring the IENC EG 2.4 into DocBook

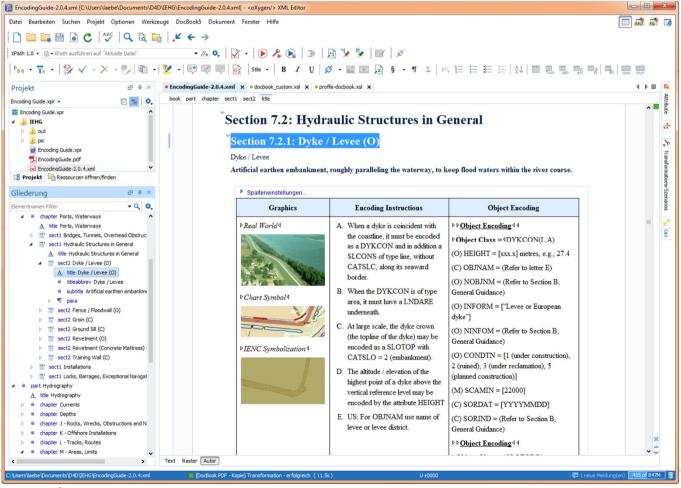


Status quo of transferring the IENC EG 2.4 into DocBook



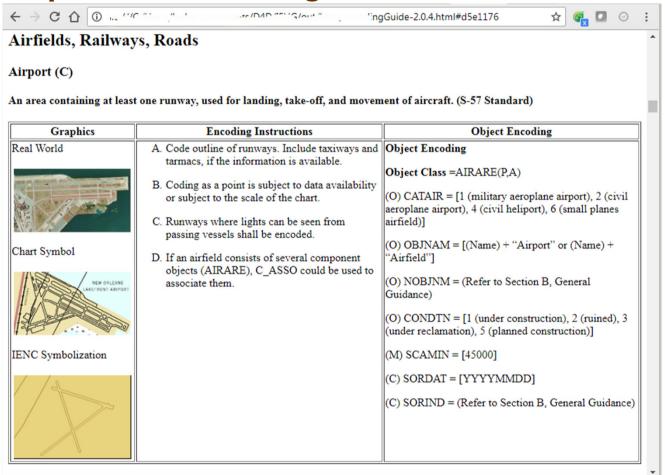


Status quo of transferring the IENC EG 2.4 into DocBook





Status quo of transferring the IENC EG 2.4 into DocBook





Future prospects

- Next step of realization:
 - "XSL-Stylesheets", which contain the rules for the graphical representation in other formats (HTML, e-pub)
 - A tool for checking the content regarding the conformity with the IENC Feature Catalogue (XML Schema file)
 - National amendments
 - Translation of parts into national languages
- Can this proceding be used for the core part of IENC Encoding Guide in future? (discussion)



Thank you for your attention!

Wieland.haupr@wsv.bund.de, Germany 2017

