



Inland ENC Harmonization Group

14th Annual Meeting

October 10th – 12th 2017

Niteroi, Brazil



**Inland ENC Harmonization Group
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Location:

Niteroi, Brazil

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Draft Agenda of the IEHG meeting

- | | |
|--|---|
| 1. Welcome, Introductions of Participants, organizational details | Carlos Augusto C. L. Silva
Flavia Mandarino
Bernd Birkhuber, all |
| 2. Presentation on Inland ENCs and IEHG – Overview
[only if new countries participating] | Bernd Birkhuber |
| Update on the legal and organizational background
and the status of implementation in
Brazil
China
Europe
U.S.
Presentations should include information on the planned and completed
IENC coverage (names of waterways and kilometers) and the availability | Flavia Mandarino
Liu Li?
Wieland Haupt
Denise LaDue |
| 3. Presentations by the new participants about their
river/inland waterway network, navigation and cartography
[only if new countries participating] | ? |
| 4. Presentation of Inland ENC applications by private companies
7Cs
Caris
ESRI
IIC Technologies (development of Under Keel Clearance Application)
Jepessen
Moris Ltd
Periskal
Tresco | ?
?
Tom De Puyt
Chris Hudson
?
Vladimir Sekachev
Marc Persoons
? |
| 5. Working methods of IEHG [only if new countries participating] | Bernd Birkhuber |

6. Election of the Core Group of IEHG	all
Election of the chairs, co-chairs and technical coordinators	all
Election of the representatives of IEHG in the Domain Control Body and the Executive Control Body of S-100	all
Amendment of the Terms of Reference	Bernd Birkhuber
Update of the Introduction of the Encoding Guide for Inland ENCs [only if new countries participating]	Bernd Birkhuber
7. Updates to the Encoding Guide and Product Specification	all
Amendments based on the new edition of the “Use of the Object Catalogue” of S-57	Bernd Birkhuber
The use of Docbook format for the IENC Encoding Guide	Wieland Haupt
8. Update intervals and processes, decision on next version or edition	all
9. Quality standards for Inland ENCs	
updates of the recommended validation checks for Inland ENCs	Bernd Birkhuber
minimum content of Inland ENCs	Bernd Birkhuber
accuracy information in Inland ENCs development for S-101?	?
10. Status of development of S-99, S-100 and S-101	Denise LaDue?
S-100 edition 3.0.0 and its consequences for IENCs	
11. Alignment of the Inland ENC Product Specification with S-101 (S-401)	Wieland Haupt? Denise LaDue?
12. Portrayal domain and specification for Inland ENCs	?
Necessary steps toward an S-401 Portrayal Catalogue	
13. S-57 to S-100 converter development	?
14. Use of USAGE and SCAMIN in Inland ENCs?	?
15. Annual Report to HSSC about IEHG	Denise LaDue
16. Updates of the Information documents on Inland ENCs (Inland ENC.doc and Inland ENC.ppt)	Bernd Birkhuber
Article for HYDRO International	?
17. Future operation of:	
the ienc.openecdis.org website	Bernd Birkhuber

discussion forum for Inland ENCs

Denise LaDue

IENC Register (as part of S-100 Registry)

Denise LaDue

18. Any other business

all

- How to encourage more countries/regions to join IEHG

- South America

- East Asia

19. Next meeting – Date and Location

Preliminary time schedule:

October 10th to 12th 2017

Meeting hours - 09:00 to 17:00

Coffee breaks - 10:30 to 10:50 and 15:00 to 15:30

Lunch hours - 12:00 to 12:45

Participants of 14th IEHG meeting:

Name	Affiliation		
BIRKLHUBER Bernd	Ministry of Transport, AT	bernd.birkhuber@bmvit.gv.at	
DE PUYT Tom	ESRI USA Waterborne Transport	tdepuyt@esri.com	
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HAUPT Wieland	Süd, DE	Wieland.Haupt@wsv.bund.de	
HUDSON Chris	IIC Technologies	chris.hudson@iictechnologies.com	
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LADUE Denise	US Army Corps of Engineers, US	Denise.R.LaDue@usace.army.mil	
LEWALD R. David	U.S. Coastguard Waterborne Transport	Robert.D.Lewald@uscg.mil	
LI Liu	Institute, PRC Waterborne Transport	liuli@wti.ac.cn	
LU Zhang	Institute, PRC Diretoria De Hidrografiae		
MANDARINO Flavia	Navegacao (DHN), BR	flavia@marinha.mil.br	
MORLION Gert	De Vlaamse Waterweg nv, BE	gert.morlion@vlaamsewaterweg.be	
PERSOONS Marc	Periskal	m.persoons@periskal.com	
SEKACHEV Vladimir	MORIS LLC Diretoria De Hidrografiae	vladimir.sekachev@gmail.com	
SILVA Carlos Augusto C. L.	Navegacao (DHN), BR		
SILVA Nuno	IIC Technologies	nuno.silva@iictechnologies.com	only Thursday

Annex

Agenda points 1 to 5 should provide an introduction to the work of the Inland ENC Harmonization Group (IEHG) for new participants and provide the possibility for new participants to inform the group about their river/inland waterway network, navigation and cartography. The individual presentations should have a maximum length of 20 minutes.

If there are no new countries participating the agenda points will only deal with updates regarding the status of implementation and the IENC applications. Presentations about the status of implementation should include information on the planned and completed IENC coverage (names of waterways and kilometers) and the availability (e.g. download from a website).

Ad Agenda point 6

Election of chairs

According to the Terms of Reference of IEHG the group is electing chairpersons, vice-chairs and technical coordinators by simple majority vote. The Core Group consists of

- 1) Chair – Two persons (co-chairs) each from a different region. Only representatives of waterway authorities can become chairpersons.
- 2) One vice-chair from each region, which is not already a chair.
- 3) Technical Coordinators - One technical coordinator for each region.

Currently the Chairs are Denise LaDue (North America) and Bernd Birkhuber (Europe), the Vice Chairs are Flavia Mandarino (South America) and Fei Weijun (Asia).

The technical coordinators are Cameron McLeay (North America), Yong Baek (Asia), Pieta Kluytenaar (Europe), and Angel Terry (South America).

The meeting should confirm the current Core Group members or elect new members. Each region can elect its technical coordinator and its candidate for chair/vice chair. The whole group is electing the two chairs from the group of the candidates.

Amendment of the Terms of Reference

There might be requests for amendments of the Terms of Reference of IEHG (available at <http://ienc.openecdis.org/?q=content/iehg>)

Election of the representatives of IEHG in the Domain Control Body and the Executive Control Body of S-100

IEHG is the owner of the Inland ENC domain in the S-100 registry and has to nominate representatives for the Domain Control Body and the Executive Control Body of S-100 in accordance with S-99. Currently Denise LaDue and Pieta Kluytenaar are the representatives. IEHG should confirm the current representatives or elect new representatives. IEHG could also consider the latest developments regarding S-99 and consider to install an expert group for the support of a single representative.

Update of the Introduction of the Encoding Guide for Inland ENCs

The Introduction section of the Encoding Guide for Inland ENCs is containing a short history of IEHG. It should be updated if new countries have joined IEHG.

Ad Agenda point 7

Updates to the Encoding Guide and Product Specification

Change Requests for the Encoding Guide or the Product Specification should be transmitted at least six weeks before the meeting (i.e. before 25th August 2017). If everybody agrees with the Change Requests they are adopted before the meeting. If there are objections, the Change Requests can be discussed at the meeting. The meeting will try to find solutions for those CRs. The proposals of the meeting will be distributed via the discussion forum and will be adopted within a period of six weeks after the meeting. It is also intended to review all Change Requests that have been adopted since the 13th IEHG meeting.

Ad Agenda point 8

Update intervals and processes

The procedure for the adoption of Change Requests is defined in the Terms of Reference of IEHG (available at <http://ienc.openecdis.org/?q=content/iehg>).

If IEHG decides to publish a new edition of the Product Specification and the Encoding Guide, or a new version of the Encoding Guide only, it might discuss the time schedule for the publication and the implementation and use of the new edition/version.

Ad Agenda point 9

Quality standards for Inland ENC

- **Updates of the Recommended validation checks for Inland ENC** (based on S-58)

IEHG has developed and adopted “Recommended Validation Checks for Inland ENC, edition 1.1” which are based on S-58 and edition 2.1 of the Product Specification for Inland ENC.

IEHG has also developed and adopted “Recommended Validation Checks for Inland ENC, edition 2.3” which are based on S-58 and edition 2.3 of the Product Specification for Inland ENC. An edition 2.4 is still missing.

- **Minimum content of Inland ENC and Minimum accuracy requirements**

The minimum content of an Inland ENC is specified in the Introduction of the Encoding Guide for Inland ENC. Experience has shown that this rather abstract definition is not sufficient if an authority contracts a private chart producer for the production of official Inland ENC. A European task force has developed a proposal for a more detailed specification of the minimum content and an Excel sheet which is also containing minimum accuracy requirements and update requirements. This Excel sheet is used as a recommendation in Europe. USACE is working on the implementation of this overview in the database which is also used for the production of the Feature Catalogue and the Encoding Guide for Inland ENC.

- **Accuracy information in Inland ENC**

At the 9th meeting IEHG came to the conclusion that it is quite difficult for the user to find the information on the accuracy of different objects in the Inland ENC. IEHG might discuss how to improve the information.

IHO is also discussing the same topic. IEHG might discuss the results of IHO.

Ad Agenda point 10

Status of development of S-99, S-100 and S-101

The meeting could be informed about the status of the development of S-99, S-100 and S-101 within IHO.

Ad Agenda point 11**Alignment of Inland ENC Product Specification with S-101 (S-401)**

IEHG has already decided to align the Product Specification for Inland ENCs with S-101 and IHO has reserved the code S-401 for this future Product Specification.

The European project River Information Services Corridor Management Execution (RIS COMEX) is currently working on the improvement of the initial drafts and will present the documents.

The meeting could agree on a strategy and timeline for the further development based on the S-100 testbed of IHO.

Ad Agenda point 12**Portrayal domain and specification for Inland ENCs**

Up to now IEHG has only dealt with the harmonization of Inland ENCs. There were different standards for the display of these charts in the various regions (e.g. the “Inland ECDIS standard” in Europe), because inland vessels do not travel from one region to another.

At the 8th meeting IEHG decided to set up an Inland portrayal domain within the S-100 registry, because one of the goals of IEHG is to ensure that maritime vessels are able to use Inland ENCs when they are using inland waterways. The development of this new domain has to be based on the portrayal domain for maritime ENCs. Depending on the progress within IHO the RIS COMEX project might be able to present first proposals for the implementation.

Ad Agenda point 13**S-57 to S-100 converter development**

IEHG has been informed about the development of a converter for S-57 datasets to S-101 for test purposes. The information might be updated.

Ad Agenda point 14**Use of USAGE and SCAMIN in Inland ENCs**

Pieta Kluytenaar has presented some problems and ideas regarding the use of USAGE and SCAMIN in Inland ENCs at the meeting of IEHG in 2010. There might be new developments which should be discussed with a view to possible amendments of the Encoding Guide for Inland ENCs.

Ad Agenda point 15**Annual Report to HSSC about IEHG**

IEHG is recognized as a NGO with observer status by IHO and is therefore presenting a report on the status of Inland ENC standardization and implementation each year to HSSC.

Ad Agenda point 16**Updates of the Information documents on Inland ENCs (Inland ENC.doc and Inland ENC.ppt)**

IEHG has agreed on an information document (Inland ENC.ppt, available at <http://ienc.openecdis.org/?q=content/iehg>) on Inland ENCs and the Inland ENC Harmonization Group (IEHG). It was proposed to develop also a text document. The meeting might discuss amendments of the information documents to take the latest developments into account.

Ad Agenda point 17**Future operation of the ienc.openecdis.org website**

The website of IEHG has been hosted by the PLATINA project of the European Union and is hosted by the PLATINA 2 project from autumn 2013 onward. The meeting might discuss the latest developments and possible improvements of the content of the website.

Future operation of the discussion forum for Inland ENCs

The discussion forum is currently hosted by the USACE. The meeting might discuss possible improvements in the discussion forum.

Future operation of the IENC Domain (as part of S-100 Registry)

IEHG has set up an Inland ENC domain in the S-100 Registry (see <http://registry.iho.int/feature/list.do>). The meeting might discuss possible improvements (e.g. adding IEHG to the list of users on the website).

Ad Agenda point 18**Any other business**

The meeting might discuss how to encourage more countries/regions to join IEHG, e.g. countries in South America, East Asia or Africa

Ad Agenda point 19**Next meeting – Date and Location**

According to rotation principle the next meeting of IEHG could take place in North America in autumn 2018. The meeting could discuss the date, location and the agenda of the next meeting.