



Hydrographic Services and Standards Committee

## **IEC Activities affecting HSSC**

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# Topics

- ✦ Status of IEC 61174 ECDIS standard
- ✦ IEC TC80 plans about S-100 and e-Navigation



# ECDIS - Introduction

- ✦ IEC ECDIS standard IEC 61174 Ed4 was published in August 2015
- ✦ For IHO related items it:
  - Refers to IHO S-52, S-57 and S-63 as source of requirements
  - Requires testing of IHO related items as specified in IHO S-64
- ✦ Type approvals based on the 4<sup>th</sup> edition have been going on for over one year:
  - No reported issues within IHO related items
  - Reported issues are around Route Exchange, which is 100% internal item of IEC



# ECDIS – Route Exchange issues

- ✦ Route exchange is 100% internal item of IEC
- ✦ This information is given on good to know basis for IHO
- ✦ **Route Exchange being mandatory or optional**
  - Is local area network (Ethernet) interface mandatory or optional for ECDIS, or is it acceptable to use USB memory sticks, etc. for Route Exchange between ECDIS equipment
- ✦ **Typo style discrepancies between printed and machine readable (XML) versions**
- ✦ **Ideas to further develop Route Exchange**
  - Many interest parties sees the IEC Route Exchange as the standardized format between ship and shore
  - Note also next slides about new workgroup for CMDS



# ECDIS - Action requested of HSSC

- ✦ To note the information provided



# New CMDS WG for IEC TC80

- ✦ In October 2015, IEC Technical Committee 80 (TC80) Plenary meeting created a new workgroup called WG17 for CMDS (Common Maritime Data Structure)
- ✦ Dr. Kwangil Lee (ETRI, Korea) was elected as the Convenor of IEC TC80/WG17 CMDS workgroup
- ✦ Within IEC TC80 all CMDS works related with shipborne system will be handled in this new workgroup



# IEC TC80/WG17 CMDS WG – Current status

## + Current status

- 27 experts from 10 National Committees
- Comments has been received on a DC paper for Terms of Reference
- First meeting was in May 2015 at London
- The work done includes :
  - Define work scope of the workgroup
  - Setup timeline for the short-term work plan
  - Draft the management of S-10x product specification within IEC TC80



# IEC TC80 CMDS WG – Work Scope

- ✦ The work scope of CMDS workgroup includes :
  - Contribute to the development of the CMDS based on the S-100 framework
  - Contribute to the development of the S-100 framework for non-GI information
  - Register and maintain work within IEC TC80 related to the items in the S-100 GI registry
  - Manage a list of S-10X Product Specifications within IEC TC80





# IEC TC80 CMDS WG – Short-term work plan

- ✦ The short-term work plan of the CMDS WG
  - Short-term work plan covers years from 2016 to 2018
  - Develop a draft for a management process for S-10x within IEC TC80
  - Propose an IEC new work item on Route Exchange based on already published Route Exchange model, IEC 61174 Ed4 ECDIS, year 2015
  - Develop a data model based on IEC 61162-1 interface standard for navigation and communication equipment
    - This data model will include also non-GI information
  - Contribute to the development of the S-100 framework for non-GI information



# IEC TC80 and S-100 – Discussion and conclusions

- ✦ The new IEC TC80/WG17 works for S-10x
- ✦ The work of the IEC TC80/WG17 may lead for:
  - IEC TC80 may be a domain owner for the S-100 framework
  - IEC TC80 may register and maintain IEC TC80 work related items in the S-100 GI registry
  - IEC TC80 may need to register a list of S-10X Product Specifications
- ✦ There is a need for IEC and IHO to co-operate for this issue



# IEC TC80 and S-100 - Action requested of HSSC

- ✦ To note the information provided

