



MonaLisa2 Project Route Exchange Format

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Objectives

The main objective is to develop a common route exchange format that support all processes inside the MonaLisa2 project i.e. Sea Traffic Management (STM) where the route can be used

- Onboard for save navigation (ECDIS etc)
- Onboard for route-schedule –speed optimization
- By service provider for route optimization
- By Pilots

- A shore for Sea Traffic Management and Deep Sea Pilotage
- A shore for Route optimization and creation of dynamic routes
- A Shore by other stakeholders who have an interest in the vessels route and schedule (Vetting, Ships-operator, ports.....)

The route format should:

- Be open and if possible be aligned with International Standard.
- Allow easy customization so that project goals can be achieved.

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IEC 61174 ed 4

Electronic chart display and information system (ECDIS) – Operational and performance requirements, methods of testing and required test results

Work group IEC TC80/MT7

- Need for a Common Route Format has been identified
- Developed for standard exchange of routing information between different equipment on the bridge.
- Work ongoing in
- CDV - Committee Draft for vote March 2014
- FDIS - Final Draft International Standard March 2015

Question is it possible to align project needs with this proposed change of IEC standard?



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The format

The content is divided in three major block

- Route General Information
- Route geometry block
- Route Schedule block

Each block can contain mandatory and optional information
It should also be possible for manufacturer to add own container

It was proposed to use a format based on XML and not S-100 data model:

- XML Coded Route plan
- Using standard ZIP archive file
ISO/IEC JTC 1/SC 34 N 1621
- nnn.rtx or nnn.rtx/z

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Milestones & Status

Project Milestones

- CDV - Committee Draft for vote June 2014
- FDIS - Final Draft International Standard Jan 2015
- In force November 2015
- Harmonized with new IHO Presentation library Nov2015/2016
- Implemented for test in EMSN Feb/March 2015



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