MONA LISA 2.0

SECURING THE CHAIN BY INTELLIGENCE AT SEA

Ulf Siwe

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EU STRATEGY FOR THE BALTIC SEA REGION FLAGSHIP

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Long term vs short term

ACTIVITY 2 STM Target Concepts:

- Port CDM
- **Flow Management**
- **Strategic Voyage Management**
- **Dynamic Voyage Management**
- SWIM

ACTIVITY 1 Implemented services (EML / STCC)

- Single reporting area
- Green routes

(route validation & optimization)

- Enhanced monitoring
- Dynamic No-Go areas
- Tactical route exchange
- Shore based Deep Sea Assistance

Simulator Tests

Simulator Network

Formal Safety Assessments (FSA)

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Enabling Sea Traffic Management by SWIM

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Strategic
Voyage Mgmt

Dynamic
Voyage Mgmt

Port CDM

Flow Mgmt

Share information
Match capacity & needs

Services on demand

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Route Exchange Format

The main objective is to develop a common route exchange format that support all processes inside the MONALISA 2.0 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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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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A simulator network...

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Barcelona Midterm Conference
4-5 November

SAFER SHIPS

Normal Operativity

Behaviour Based Safety
BBS ICT Tool

Search & Rescue

ICT Integrated System

Fire and Evacuation Management

Indoor Positioning System

Evacuation in significant incline condition

Innovation Launch and Recovery System for Lifeboat

Safer Ships → Increase the efficiency → Preserve the Environment

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Midterm Findings & results

BBS is ready for Maritime application (pilot appications are on going)

The SAR system is in testing phase

Cost Benefit Analysis

Indoor positioning system is installed on Ruby Princess

Lifeboats launch system designed and simulated

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Sub Act 3.2 - ICT tool for Search and Rescue

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Sub Act 3.3 - **NETWORKED VESSEL (Indoor Positioning System)**

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SRTP Pilot application – Ruby Princess:

- In December the installation will be completed (50% already done)
- In 2015 the system will integrated in the safety management system

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Sub Act 3.4 – SES
(Safe Evacuation System)

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Without Monalisa

With Monalisa

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Operational Safety

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SAVE THE DATES!
MONALISA 2.0
Final Conference

Gothenburg
10-11 November 2015

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