

REPORT OF THE WORKING GROUP ON STRAITS PROJECT 9 “THE SHIP TRAFFIC MANAGEMENT SYSTEM IN THE SOMS” HELD ON 27 SEPTEMBER 2016 AT THE ROYAL AMBARRUKMO HOTEL, YOGYAKARTA, INDONESIA

Name	Organisation
Capt M Segar - Chairman	Maritime and Port Authority of Singapore
Mr Chan Keng Nee	
Capt Charles De Souza	
Capt Chong Jia Chyuan	
Mr Raymond Ivan Sianturi	Directorate-General of Sea Transportation, Indonesia
Capt Jonson Manurung	
Capt Andi Aswad	
Mr Soedirman	
Ms Erika Marpaung	
Mr Roslee Mat Yusof	Marine Department Malaysia
Mr Mohd Syahir bin Eleas	
Ms Hafizah Meor Ozman	
Mr John Erik Hagen	Nowegian Coastal Administration
Mr Jarle Hauge	
Mr Hiroyuki Yamada	International Maritime Organisation
Mr Omar Frits Eriksson	IALA
Mr Todd Schuett	Kongsberg NorControl
Mr John Murray	International Chamber of Shipping
Mr Michael Bergmann	CIRM

1 The Working Group (WG) was convened to deliberate on Straits Project 9 – The Ship Traffic Management System (STMS) in the SOMS” that was presented by Norway at the CF on 26 Sep 2016.

2 Chairman said that the objectives of the WG were to establish the key expected outcomes of the STMS project and to propose follow-up actions. He invited Kongsberg NorControl (KNC) and the Norwegian Coastal Administration (NCA) to update the WG on the status of the project.

STMS Project

3 KNC said that most of the works were completed and a sea trial involving a ship sailing through the SOMS is being planned to take place in the 1st quarter of 2017. The Norwegian shipping company “Wilhelmsen”, a member of ICS, has kindly offered its vessels to participate in the sea trial. The trial is to demonstrate the following concepts of operations and technologies.

3.1 Concepts of Operations

- a) Ship submits its passage plan and pre-arrival information to the shore Authority;
- b) Shore Authority collects traffic information and determine potential traffic hotspots in the SOMS;
- c) Shore Authority sends traffic hotspots picture and marine resources information to the ship; and
- d) Based on the information received, ship may decide to adjust its speed to avoid traffic hotspots in order to ensure a safe and optimal passage and advise the shore Authority on its revised passage plan.

3.2 Equipment and Systems for the sea trial

- a) Prototype voyage planning station to be installed on the ship;
- b) Prototype VDES for communication between ship and shore; and
- c) Prototype VTS operator workstation to be installed at the Singapore VTS centre.
- d) Display systems for Indonesia and Malaysia to view the trial

4 On the concern about new equipment and design standard, the WG agreed with CIRM's comment that equipment manufacturers should consider leveraging on existing equipment and minimising impact on existing standard (such as the IEC 61174 version 4) when designing and developing their products. The WG also agreed that the development of e-Navigation should maximize the use of existing system onboard and to incorporate cyber security measures in the system architecture in order to gain worldwide acceptance.

Automatic Ship Reporting System

5 The NCA presented Norway's plan to carry out an Automatic Ship Reporting sea trial and demonstrated a live automated reporting of Pre-Arrival Notification message sent from Norway to Singapore via email. On the issue of standardising the various data format (XML, Excel and etc) used in such reporting, CIRM suggested focusing on the types of information to be reported taking reference from the IMO FAL form and leaving the decision on data format to be used to each Administration.

Project Demonstration

6 KNC said that following the sea trial, a demonstration of the STMS project will be presented at the e-Navigation forum to be held in Singapore in Apr 2017. Part of the demonstration would include a video to be screened at the e-Navigation event. ICS commented it would be good to place the video on its ICS website to share with their members the concept of e-Navigation including the process involving the interaction between ship and shore.

7 The WG noted that the Maritime and the Port Authority of Singapore and the Norwegian Coastal Administration will co-organise the e-Navigation forum in Singapore on 26 Apr 2017.

Conclusion

8 The WG deliberated on the project details and the proposed sea trial. The WG agreed on the following:

Expected outcomes of the project

- a) The operations concepts of the STMS project are achievable and aligned with Maritime Service Portfolioⁱ No. 3 (on Traffic Organisation Service) under the e-Navigation Strategic Implementation Plan Solution 5;
- b) The Automated Ship reporting is aligned with the e-Navigation Strategic Implementation Plan Solution 2 on Automatic Ship Reporting System;
- c) The prototypes equipment are able to support the Operations carried out in the trial;
- d) The prototype equipment is able leverage on existing equipment on board ships and ashore as far as possible.

Follow-up Action

- e) To look into sharing the sea trial demonstration with the Littoral States;
- f) To verify the expected outcomes of the project based the trial results; and
- g) To explore carrying out more test-beds projects as a contribution to e-Navigation development (i.e STMS phase 2).

For Information

- 9 PCC is requested to note the report of the WG on Straits Project 9.

¹ There are currently 16 Maritime Service Portfolios identified under SIP Solution No. 5.