

Project 3

Demonstration Project of Class B Automatic Identification System (AIS) Transponder on Small Ships



Background

- Project 3 – “**Demonstration Project of Class B AIS on Small Ships**” is one of 6 projects to improve navigational safety and protection of the marine environment in the Straits of Malacca and Singapore

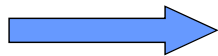
Participation to date

- 3 littoral states
- User States – Australia, Japan and Republic of Korea



Motivating Factor

- AIS – a system to facilitate communications and automatic identification. Class A and Class B
- Class A - mandatory carriage requirement for SOLAS vessels
- Class B – non-mandatory, targeted at smaller non-SOLAS vessels which radars are not as effective in detecting
- Potential of Class B to enhance situational awareness of ships masters and VTS centres



Demonstration Project:
To assess Class B effectiveness
through demonstration trials



Objectives of Demonstration Project

- To evaluate the performance of Class B AIS in high traffic density areas
- To evaluate the impact of Class B AIS on existing AIS network
- To evaluate the effectiveness of Class B AIS from the ship masters' perspective
- To raise the shipping community's awareness of the capabilities and limitations of Class B AIS



Progress Update

1st Phase – Defining the Scope






- Drafted Project Design and Implementation Plan (by Singapore and Australia)
- Circulated to littoral and user States in April 08 for comments and concurrence
- Plan to be discussed and endorsed at **PCC meeting** on 29 May 08



Progress Update

Project Timeline






We have successfully completed the 1st phase

Phases	Activities	2007		2008				2009			
		4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
1	Defining the Scope										
2	Installing of Backend Equipment & transponders										
3	Operational Trial / Data Collection										
4	Data Analysis										
5	Training / Outreach Programme										



Progress Update

Project Timeline

Phases	Activities	2007		2008				2009			
		4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
1	Defining the Scope										
2	Installing of Backend Equipment & transponders										
3	Operational Trial / Data Collection										
4	Data Analysis										
5	Training / Outreach Programme										

Progress Update

2nd Phase – Installing of Backend Equipment and Transponders

Backend Equipment

- Survey has been undertaken to assess the current shore-based AIS infrastructure of each littoral state and their state of readiness for the Class B demonstration trials
- Plans have been made to upgrade base stations for AIS B capabilities in 2008

Progress Update

2nd Phase – Installing of Backend Equipment and Transponders

Class B Transponders

- Japan and Republic of Korea have kindly agreed to lease a number of transponders for the project



Moving Forward

Project Timeline

Phases	Activities	2007	2008				2009			
		4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
1	Defining the Scope	←→								
2	Installing of Backend Equipment & transponders			←→						
3	Operational Trial / Data Collection					←→				
4	Data Analysis						←→			
5	Training / Outreach Programme								←→	



Moving Forward






3rd Phase - Operational Trial / Data Collection

- 4th Qtr 2008
- Individual littoral states will be responsible for the conduct of trials in their respective countries
- Questionnaires distributed to masters of trial vessels, to seek their opinion of usefulness of Class B transponders



Moving Forward

Project Plan - Timeline

Phases	Activities	2007	2008				2009			
		4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
1	Defining the Scope									
2	Installing of Backend Equipment & transponders									
3	Operational Trial / Data Collection									
4	Data Analysis									
5	Training / Outreach Programme									



Moving Forward

4th Phase – Data Analysis

- 1st & 2nd Qtr 2009
- The user states will assist the littoral states in compiling and analyzing the test data
- The result would show the effect of individual and multiple AIS Class B units working within the vicinity of AIS Class A units, AIS Base Stations and AIS Aids to Navigation. The result would be shared with the project team members



Moving Forward

Project Plan - Timeline

Phases	Activities	2007	2008				2009			
		4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr
1	Defining the Scope	←→								
2	Installing of Backend Equipment & transponders			←→						
3	Operational Trial / Data Collection				←→					
4	Data Analysis					←→				
5	Training / Outreach Programme								←→	



Moving Forward

5th Phase – Training / Outreach Programme

- 3rd & 4th Qtr 2009
- Contributing User States will provide the expertise to prepare the training materials and conduct train the trainer programmes



Call for further participation

- Request for more Class B Transponders
- Request for contributions towards installation services for Class B Transponders



Thank You

