iDA
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FACT SHEET

WISEPORT Contents and Applications Call-for-Collaboration Award: Five Companies to Develop Value-Added Services

Infocomm@SeaPort

The three-year S$12 million Infocomm@SeaPort programme, launched in September 2007 by Mr Raymond Lim, Minister of Transport and Second Minister for Foreign Affairs, is a collaboration between the Maritime and Port Authority of Singapore (MPA) and the Infocomm Development Authority of Singapore (IDA). The programme aims to catalyse business transformation and operational excellence in the port community through the use of innovative infocomm technologies.

WISEPORT

Launched in March 2008, WISEPORT (**WI**reless-broadband-access for **SE**a**Port**) is the first project under the Infocomm@SeaPort Programme. WISEPORT uses network infrastructure based on the 802.16e mobile WiMAX standard to provide wireless broadband coverage within 15km of Singapore's southern coastline. WISEPORT offers a low-cost, high-bandwidth seamless mobile connectivity, enabling activities that could be done onshore, such as regulatory filings, broadband communications, live remote video and security surveillance, real-time access to navigational data and Internet-based applications, to be replicated offshore. With WISEPORT, Singapore is the world's first WiMAX ready seaport.

QMax Communications was appointed in December 2007, to deploy the mobile WiMAX network infrastructure for WISEPORT. The service was launched four months later in March 2008. QMax plans to complete the infrastructure roll-out by the end 2008. During WISEPORT's first year launch, QMax is offering free 512kbps unlimited data access plan. Subscribers to this special package will receive thumb drive-sized WiMAX modems that are used to access WiMAX anywhere within the WISEPORT coverage (currently limited to coastal areas such as Tuas, Jurong, Pasir Panjang and Tanjong Pagar).

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WISEPORT Content and Applications Call-for-Collaboration

On 6 December 2007, a WISEPORT Contents and Applications Call-for-Collaboration (CA CFC) was issued by IDA and MPA, to invite the maritime community and the infocomm industry to develop innovative content and applications over the wireless broadband access for the maritime community.

This two-year CA CFC programme seeks to achieve the objective of promoting the development of innovative content, applications and services on the WISEPORT network to drive up WISEPORT adoption.

When the CFC closed in February 2008, 19 proposals were received. Five proposals were selected and awarded in June 2008. Through the CFC, IDA and the five companies will be investing S$2 million to develop solutions to enhance the capabilities and sophistication of the seaport community. The companies are Ascenz Pte Ltd, DHI Water & Environment (S) Pte Ltd, MARIS Asia Pacific Pte Ltd, Panasonic Singapore Laboratories, and Transmex Systems International Pte Ltd. The suite of services will enable the seaport community to access up-to-date information such as navigational charts, vessel and equipment status, and training materials and entertainment content for crew and passenger welfare.

The rollout of the WISEPORT broadband network and the availability of innovative solutions for the seaport community through the CA CFC will entrench Singapore's status as a maritime hub.

FOR MORE INFORMATION
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Summary of consortia solutions

Company	Ascenz Pte Ltd
Title of Project	Maritime Fuel Consumption Monitoring and Data Acquisition Solution
Summary	With Ascenz's solution, harbourcraft and tugboat owners will be able to monitor their vessels' status such as fuel consumption, engine speed and vessel[1] position, remotely from the owners' office. The remote monitoring will be implemented using a web-based system making it easy for vessel owners to use and access. The low-cost and high bandwidth network provided by WISEPORT enables the real-time transmission of data back to the office, thus providing users the ability to detect possible anomalies like vessels components faults and fuel leakages. It also enables vessel owners to better track and manage vessel movements in a more timely way as compared to current manual way of tracking movements through phone calls and faxes.
Media Contact	Mr Sia Teck Chong General Manager Email: sia.teckchong@ascenz.com Tel: 6841 5219

Company	DHI Water & Environment (S) Pte Ltd
Title of Project	Collection and Dissemination of Hydrological Data using WISEPORT
Summary	Maritime vessels, dive operators, and leisure craft operators have always needed up-to-date hydrological data like tidal status, environmental and weather information, as well as specialised data such as turbidity (underwater visibility). This is to allow them to better plan and manage maritime related navigations and operations. Presently, hydrological information providers like DHI collect such hydrological information using monitoring stations. These are buoy floated devices that are placed out on Singapore's waters. While these devices can collect up-to-date hydrological data, communicating such information back to shore has always been hampered by the lack of connectivity over the port waters. WISEPORT solves this problem by providing reliable and low cost connectivity to allow frequent up-to-date information to be transmitted. This information can be accessed online from shore-based office through traditional land-based networks like ADSL as well as from vessels using WISEPORT.

[1]Vessel - A craft designed to navigate on water, including tugboats, ferries and container ships

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Company	MARIS Asia Pacific Pte Ltd
Title of Project	Web-Enabled Maritime Digital Services on WISEPORT
Summary	Currently, vessels need to physically dock to purchase navigational charts and navigational information on CDs. This is due to the lack of broadband connectivity that limits how vessels can obtain such information. With WISEPORT, this project aims to transform how navigational information is purchased and updated. The aim is to develop a one-stop electronic navigation shop, available 24/7 for all vessels that are still at sea. The web-based navigation shop makes available all forms of navigational information such as charts, lighthouse timings, radio frequencies, weather forecasts, tidal and current information and navigational notices. The service will keep track of each customer's portfolio of charts. Depending on the subscription model, the service could automatically update the charts when the vessel receives WISEPORT coverage or automatically recommend pertinent updates to the users.
Media Contact	Mr Bhupesh Gandhi Director Email: info@maris.sg Tel: 6276 2472

Company	Panasonic Singapore Laboratories (PSL)
Title of Project	WISEPORT Broadband VideoCast
Summary	The WISEPORT Broadband VideoCast System developed by Panasonic Singapore Laboratories Pte Ltd will be the first-of-its-kind wireless video distribution platform for the maritime industry. The VideoCast System will efficiently deliver entertainment, education and electronic signage applications over WISEPORT to sea-faring vessels. Once the video content is downloaded to the vessel, the various video display terminals within the vessel will have the capability to propagate the content from one unit to another, allowing easier and faster updates. With the VideoCast System sea passengers and crew members will benefit from automatic access to videos and training content without need to dock or perform manual updates.
Media Contact	Mr Tan Pek Yew Project Director Email: pekyew.tan@sg.panasonic.com Tel: 6550 5470

Company	Transmex Systems International Pte Ltd (TSI)
Title of Project	Vessel, Vehicle and Personnel Tracking System
Summary	TSI's solution enables vessel owners to track the locations and movements, and on-board telemetry of their vessels reliably in real time. Presently, poor GSM coverage at sea and costly data usage, limits such visibility. With the coastal coverage of WISEPORT, TSI's solution is now enhanced, this is also particularly useful for coastal maritime activities like ship building and repair works. Moreover, it can easily be extended to other shore based mobile assets such as vehicles and personnel. With this tracking system in place, companies can benefit from better planning and control of their operations.
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