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Unlocking AIS data value

AIS data, once decoded, processed and stored, has significant value to the port community provided that this data can be easily and seamlessly integrated into existing Enterprise Service Bus [ESB] or Enterprise Resources Planning [ERP] systems.

The **MariWeb™** AIS Base Station Controller [BSC] and the Central Data Server [CDS] have open and discoverable web services that allow IT staff to easily access and integrate AIS derived data into existing port IT systems. (page 1)

The **MariWeb™** AIS Portal

The **MariWeb™** AIS Portal has been released by IMIS Hellas (www.mariweb.gr). The AIS Portal allows access to AIS data and alerts using an English or Greek interface.

AIS Portal services can be purchased and paid for using an online transaction. (page 2)

Unlocking AIS data value

Many ports use either an Enterprise Service Bus [ESB] or Enterprise Resources Planning [ERP] system to run their ports efficiently. The data gathered by these systems is then shared with the port community/port's customers. As AIS data transmitted by SOLAS and other vessels fitted with AIS terminals becomes more reliable, shore side IT systems are better able to use this data without human intervention, at low cost and with no loss of data integrity.

AIS data, once decoded, verified, processed and stored can provide significant value to the port community provided that this data can be easily and seamlessly integrated into the existing ESB or ERP systems. The inclusion of event managers adds value to AIS data by providing Actual Time of Arrival [ATA] and Actual Time of Departures [ATD] as well as anchorage and berthing and many other events.

The best use of this information is gained from the use of easily accessible, open and discoverable interfaces that allow IT staff to interface AIS data and networks to legacy systems in a quick, secure but low risk way.

By using a web services interface, the reporting to port operations and port community becomes more immediate and accurate ensuring that existing, tried and tested accounting systems, planning systems and safety systems all benefit from the wealth of data that is now available.

Web services allow port operations to move valuable and detailed AIS data from the traditional Electronic Chart System [ECS] into the port information environment.

The **MariWeb™** AIS Base Station Controller [BSC] and the **MariWeb™** Central Data Server [CDS] include open and discoverable web services which allow IT staff to easily access and integrate AIS derived data into existing port IT systems.

New BSC / PSS Controller

The **MariWeb™** Base Station Controller [BSC] adds a rich feature set with high reliability hardware to the AIS Physical Shore Station [PSS]. This includes a Logical Shore Station [LSS] data feed, firewall, web services and a web server interface allowing an Internet browser to be used as the Graphical User Interface [GUI] while maintaining compliance to published specifications and recommendations. (page 2)

Adding value to legacy AIS systems

Shore side AIS networks have been available to ports, maritime authorities and maritime organisations since late 1990's. These existing AIS networks can now be enhanced by adding new features and integrating them to existing port operational and planning systems by using 4th generation, web enabled AIS networks such as **MariWeb™**.

Value can be added by processing the AIS data and creating events and comprehensive tabular and graphical reports based on the AIS data. (page 2)

www.imisglobal.com

The **MariWeb™** AIS Portal

As AIS data becomes more important to the port community for the environment, safety, planning and efficiency, the need for an AIS Portal has become evident. IMIS Global Limited has developed and released an AIS Portal in cooperation with IMIS Hellas SA of Greece (www.mariweb.gr).

This AIS Portal allows access to AIS data and alerts using an English or Greek interface.



The AIS Portal also allows for advertising to be included and made available to the port community.

Various alerts and reports are available. These reports and alerts can be sent via a free email or paid for GSM Short Message Service [SMS] service.

New BSC / PSS Controller

IMIS Global has released a next generation Base Station Controller [BSC] that can also be used as a Physical Shore Station [PSS] controller. The BSC adds a rich feature set with high reliability hardware to the PSS.



The BSC services include:

- Logical Shore Station [LSS] data feed
- Firewall (TCP/IP and IEC)
- Discoverable web services
- Web server interface allowing an Internet browser to be used as the Graphical User Interface [GUI]

The **MariWeb™** BSC allows for the operation of a PSS in the Hot Standby mode.

Up to four weeks of AIS data can be stored on site with the **MariWeb™** 'Quick Restore' being used to transfer the data from the BSC to the central environment once the WAN is restored.

The above, and a lot more, is offered while maintaining compliance to published specifications and recommendations.

Adding value to legacy AIS systems

Shore side AIS networks have been available to ports, maritime authorities and maritime organisations since late 1990s.

These existing AIS networks can now be enhanced by adding new features and integrating them to existing port operational and planning systems by using 4th generation, web enabled AIS networks such as **MariWeb™**.

Value can be added by processing the AIS data and creating events and comprehensive tabular and graphical reports based on the AIS data.

A connection to these existing AIS networks is normally achieved by using the various published standards such as IEC61162 that cover the maritime AIS technology.

Once access is gained to the AIS data stream, value can be unlocked (see 'Unlocking AIS data value' on page 1).

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