



The *MariWeb*TM AIS Portal

The *MariWeb*TM AIS Portal is the latest version of the *MariWeb*TM software intended for use by Maritime Exchanges. It adds value to the port community by making enhanced AIS data available via a number of interfaces that includes:

- Web Services
- Web page
- Passenger Information Displays [PID]
- Enhanced Chart Server
- Connections to local RSS feeds
- Connections to other localised web services such as weather

The *MariWeb*TM AIS Portal has been made simple to manage so that trained Maritime Exchange operators can update the web pages using a simple Content Management System [CMS].

Now even the smallest port can have a world class Maritime Exchange with innovative features. (page 1)



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The *MariWeb*TM AIS Portal

The *MariWeb*TM AIS Portal is the latest version of the *MariWeb*TM software intended for use by Maritime Exchanges and builds on and significantly enhances the systems already deployed in North and South America and the two national systems in the European Union [EU].

The *MariWeb*TM AIS Portal adds value to the port community by making enhanced AIS data available via a number of interfaces that includes:

- Web Services
- Web server for the Human Machine Interface
- Passenger Information Displays [PID]
- Enhanced Chart Server
- Connections to local RSS feeds
- Connections to other localised web services such as weather services

The *MariWeb*TM AIS Portal has been made simple to manage so that trained Maritime Exchange administrative staff can update the web pages using a simple Content Management System [CMS].

Maritime Exchanges traditionally cover their costs by providing a paid for reporting and information service. The *MariWeb*TM AIS Portal takes this service capability to the next level where the user can not only subscribe to the reporting service but also subscribe to a web service allowing the integration of existing planning and operational systems using an open, secure and managed interface.

Smaller and non-sophisticated users of the Maritime Exchange can still subscribe to receive the reports as they currently do. The users can now pay for them online using PayPal and collect the reports themselves. A range of standard reports can be ordered and paid for using the eShop capability.

The eShop also allows user to subscribe for short term mobile phone alerts (SMS) such notification when a particular vessel arrives in the port and also at the berth.

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MariWeb™ Chart Server

The **MariWeb™** Chart Server [MCS] integrates a number of charts servers ranging from a proprietary IMIS Global chart server to third party chart servers that are able to display encrypted S57 (S63) charts. The MCS includes the ability to include Google Map® enabling non-maritime users to have a unique perspective on the maritime traffic within the port environment. (page 2)

Adding Radar to MariWeb™

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

MariWeb™ now includes an ARPA interface known as the **MariWeb™** Radar System [MRS]. This interface allows the importing of ARPA Radar data and the display of this data on the **MariWeb™** Chart Server [MCS] enabling all operators to see the radar targets. (page 2)

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The **MariWeb™** AIS Portal has been tested on one of the largest privately owned AIS networks in the world, the IMIS Hellas AS network in Greece. The Greek AIS network consists of more than 40 **MariWeb™** AIS receivers with TCP/IP controllers connected via the Internet to the server suite in Athens. Additional data is also obtained from various other sources and integrated.

Up to 2,000 AIS targets are displayed at any one time on this system. All of the AIS data is stored and available for reporting.

The AIS data also provides connection to a Greek language Active Voice Response [AVR] system allowing users to call in and ask for the latest update with regards to any ferry by name.

The response is either by next port of arrival and can also be by closest position, for example, 20 kilometres from the port of Athens.

The same information, plus revenue earning adverts, can be displayed at all ferry arrival and departure points providing passengers and operational staff with real time updates.

MariWeb™ Chart Server

The **MariWeb™** Chart Server [MCS] integrates a number of charts servers ranging from a proprietary IMIS Global chart server to third party chart servers that are licensed to display encrypted S57 (S63) charts.

The latest version of the MCS includes the ability to display ESRI maps enabling port authorities to display the position of vessels in a port using the port engineering drawings as a reference.

Special symbols can be added to the ESRI diagrams to indicate the position of particular Points Of Interest [POI] such as buoys.

This latest version of the MCS allows the operator to load any raster image in WGS84 format.

The MCS includes the ability to include Google Map® enabling non-maritime users to have a unique perspective on the maritime traffic within the port environment. This capability ensures a unique insight when the Maritime Exchange plays a significant role in dealing with an incident.

The availability of Google Maps® allows new users to intuitively understand the situation without a significant learning curve.

Adding Radar to MariWeb™

Shore side AIS networks have been available to ports, maritime authorities and maritime organisations since late 1990s. Some Maritime Exchanges and port operators need Radar to be added to the IT environment to ensure the accuracy of the AIS data.

MariWeb™ now includes an ARPA interface known as the **MariWeb™** Radar System [MRS]. This interface allows the importing of ARPA Radar data and the display of this data on the **MariWeb™** Chart Server [MCS] enabling all operators to see the radar targets.

In the last two systems installed by IMIS Global Limited, up to 100 ARPA targets can be automatically captured and displayed on the **MariWeb™** system using a low cost Radar with a 21 Nautical Mile range.

This solution allows the verification of the AIS and Radar target positions (the IMO has determined that the AIS position takes priority) in that they are both displayed and are not 'fused' thereby leading to false targets being created.

The **MariWeb™** firewall ensures that only valid AIS targets are included in the displayed dataset.

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