

Port-Log

Quick and easy storage and publishing of environmental monitoring data

The ability to store environmental monitoring data securely for future use and then being able to publish it in near real-time or historically on the web is a common requirement. Acquiring and implementing the technologies necessary to achieve this can be complex and costly.

Port-Log is a quick and easy storage and publishing solution for environmental data acquired by different monitoring techniques and sensors. It is offered by **OceanWise** as an on-line **Service** or as part of a comprehensive System deployed on your servers.

Port-Log is designed to be instrument and transmission independent, so that it can be used flexibly and comprehensively within most applicable environments.

Port-Log Service

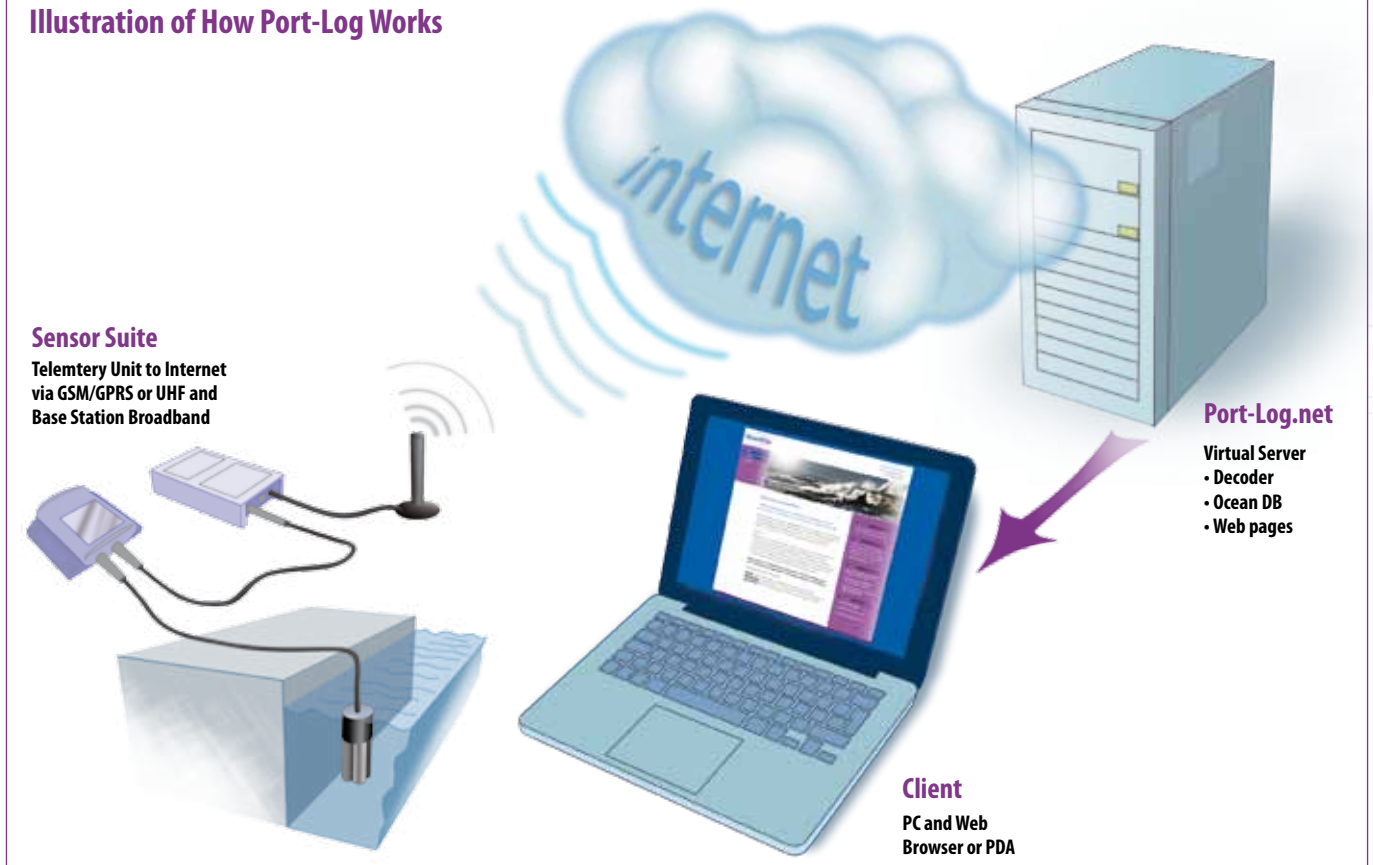
As an on-line **Service** using latest web technologies, **Port-Log** is easy to set up, low risk and cost effective. Native sensor output is sent directly to the **Port-Log** virtual server, where it is decoded and loaded onto a secure database – standard or customised web pages access and visualise the data, either in near real-time for operational purposes, or as historical summaries for situational awareness and analysis. Customers of the **Port-Log Service** are provided with three levels of secure login, providing access to the **Service** for upload, view and download or view only. These levels may be granted to third parties, as required, or the data published openly over the Internet. Individual and secure web pages are set up for each customer (or survey or site location), each with its own URL. Web pages are the same for each instance or level of access, or optionally can be tailored to meet specific requirements. With view and download access, data may be downloaded in full, or a subset queried and downloaded, for subsequent processing, analysis or presentation using standard desktop applications.

Port-Log Benefits

- Proven and low risk
- Instrument and manufacturer independent
- RS232, TCP/IP and FTP data uploads
- Flexible and extensible data model
- Standard and customised web interfaces
- Cost effective, quick and easy to set up
- On-line service or deployed system
- Range of oceanographic interfaces



Illustration of How Port-Log Works



Port-Log System

Deployed in an office or on-site, **Port-Log System** provides the foundation for a complete in-house real-time and historic environmental data management system. At its core is an instance of **Ocean Database (ODB)** installed on a server and RDBMS provided either by the customer's IT department, preferred supplier or installed and supported by **OceanWise**. Decoder or extract, load and transform software running on the server provides the link to instrument real-time data feeds or stored output, respectively. The same levels of access to the data are provided by standard or customised web pages used in the **Port-Log Service**. In addition, standard desktop applications may connect directly to the database to facilitate subsequent processing, analysis and presentation. Typical applications include Microsoft Excel, MATLAB and GIS. Third party extensions, such as the **OceanWise**



Maritime Toolbar for Cadcorp SIS, provides additional functionality.

Ocean Database (ODB)

At the core of **Port-Log** is the **OceanWise ODB**, comprising unique data tables and relationships that are capable of storing many types of simple and complex environmental monitoring data. The data tables are set

up using pre-prepared scripts according to which particular instrument or sampling regime is incorporated. These scripts may be extended at any time to include other data types, as required. Supplementary tables store associated parameters used in quality control and metadata creation, and divide the data into temporally or spatially referenced blocks for easier identification and management. **ODB** is realisable in most proprietary and open source database management systems, including Oracle, MS SQL and MySQL, the latter being used on the **Port-Log Service**.

Instrument Types

Port-Log can handle binary and text data from a range of instrument manufacturers including Valeport, Nortek and Teledyne RDI. Native formats are transmitted and decoded before being loaded to the **ODB** specially formulated tables. None of the data richness is lost but instead, it is retained for subsequent review and analysis.



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