



Founding of Shipdex™ Achievements & Developments

 **Shipdex™**
Setting the standard

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What is Shipdex™ ?

Shipdex™ is the bundle of international business and technical writing rules (the protocol) created to standardize the development and the exchange of technical and logistic data within the shipping community. The scope of this standard protocol is to rationalize the proliferation of technical information, currently supplied in various formats.

The Shipdex™ protocol is born from willing and co-operation of two Ship Owner company **Grimaldi Group** and **Intership Navigation Co. Ltd.**





Why ShipdexTM ?

Up to now, ship owners have dealt with the headache of a table full of paper. Just as an example a new delivered ship come with at least one and half ton of paper that includes Manuals, Drawings, Electrical Diagrams, Specifications, Maintenance Instructions and so on. The photo (below) shows the manuals which can come with a brand new, \$30m vessel delivered at begin of 2008 .



It's very difficult to accept that, in the century of EDI and Communications, shipping industry is still dealing with this huge amount of paper difficult to manage, store and consult both on board and ashore.

The reasons behind Shipdex Protocol

Ship-owner's criticalities

□ Technical Manuals:

- Are coming from different manufacturers and relevant to thousand component per vessel
- Are developed with different content organization and structures
- Are supplied in paper format or in electronic formats but with data not retrievable or manageable
- Their management has an high costs

□ Integration with CMMS/ERP:

- no integration at all, sometimes a simple interface with very poor coherency
- high costs to upload and update CMMS/ERP data bases



The reasons behind Shipdex Protocol

Ship-owner's criticalities

- Difficulties to:
 - archive and manage original manuals
 - archive and manage updates and Service Letters
 - transmit and track comments to manufacturers (field experience)
 - use different browsing systems (Word, Explorer, Adobe Reader, etc.)
 - to deal customer, class, port authorities, vetting and more requirements.



The reasons behind Shipdex Protocol

The main consequences to deal with paper data are:

- Long time to retrieve information
- High risk in using not updated information
- Long time to perform maintenance tasks
- Long time to purchase the right spare parts
- High management costs



LOW GLOBAL QUALITY at HIGH COSTS

The reasons behind Shipdex Protocol

How to solve all criticalities at the same time ?

Defining a common and shared protocol to:

- Produce
- Manage
- Exchange
- Use
- Update

standardized electronic and tested technical data

HIGH GLOBAL QUALITY at LOW COSTS

The actions behind Shipdex Protocol

We created the **Shipdex Working Group** and decided to develop a “standard exchange protocol” aimed to:

- achieve a win-win situation for all parties involved
 - develop an open standard for all
 - be expandable in the future
- With the initial scope to cover:
- Equipments list
 - Maintenance procedures
 - Parts catalogues
- In accordance with an already existing industry standard



GET RID OF ALL THESE
PAPER MANUAL

The Shipdex Team



SHIPDEXTM working group - Complete supply chain covered

Ship owners

Grimaldi Group

Intership Navigation Co. Ltd

IT expertise, Software vendor

SpecTec Group Holdings Ltd – long time IT solutions supplier to Intership Navigation and Grimaldi Group

Manufacturers

Alfa Laval

MacGREGOR Group

MAN Diesel A/S

Yanmar Company Ltd

The actions behind Shipdex Protocol

- ❑ On February 2008 the ShipdexTM protocol was launched and the version 1.0 of ShipdexTM protocol and business rules were issued;
- ❑ ShipdexTM Web Site created and on line registration allowed;
- ❑ ShipdexTM registrations started
- ❑ ShipdexTM Protocol Maintenance Committee (SPMG) started its activities with the first meeting;
- ❑ Specific technical meetings organised in order to built first test application of the protocol;

The actions behind Shipdex Protocol

- ❑ Meeting with S 1000 D organised in order to prepare ShipdexTM adherence to the organization;
- ❑ ShipdexTM adherence to S 1000 D organization;
- ❑ ShipdexTM representatives were included as an observer in the S1000 D Steering Committee;
- ❑ ShipdexTM protocol conferences organised and promoting activities started for the diffusion of protocol;
- ❑ ShipdexTM News Letter created;

The achievements

- ❑ 49 registration as member to the ShipdexTM protocol reached;
- ❑ 150 subscription to the ShipdexTM News Letter received;
- ❑ First application of ShipdexTM protocol and first CSDB created;
- ❑ Agreements for partial supply of Technical Data in accordance to ShipdexTM format reached for new buildings;
- ❑ First contract for new building signed with request of delivery of all technical data and manual in accordance to ShipdexTM protocol format;
- ❑ Re-engineering project for building a CSDB for existing vessels started;

The achievements

- ❑ Version 1.2 of ShipdexTM protocol developed and waiting for SPMG approval;
- ❑ An average of 40 visit per month on ShipdexTM web site;
- ❑ Last month statistics of ShipdexTM web site:

Visit more than 500

Pages visited 1643

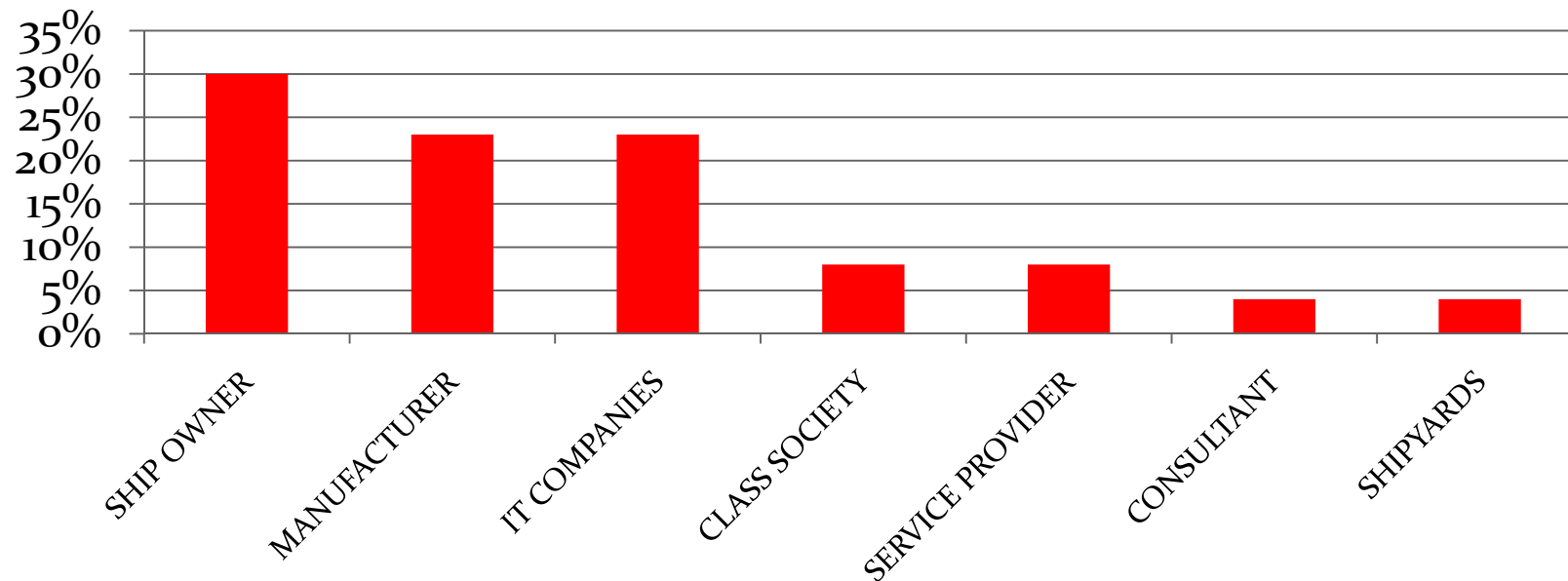
68.70% of new visits

42,32 % of Bounce Rate

Analysis of achievements

□ Registrations distribution:

ShipdexTM Registered Company Category Distribution



Analysis of achievements

- From the technical and qualitative point of view the following objective have been achieved :
 - The recognition of ShipdexTM protocol from S 1000 D as the technical documentation and data standard for the maritime industry;
 - The next issue of 1.2 ShipdexTM protocol specification, that demonstrates the vitality and the active participation members in its development;

Analysis of achievements

- The development of software tools capable to built, manage, test, control and import / export technical data in accordance to ShipdexTM protocol ;
- Election of two additional registered member into the SPMG (possibly shipyard representative and class society representative) in order to enlarge the development contribution to all maritime industry players;
- Development of Technical Documentation Production Systems based on ShipdexTM protocol;

Developments for the Shipdex TM Protocol

- The next important step for the development of the Shipdex TM Protocol are :
 - Complete development of a maritime project based on Shipdex TM Protocol, from technical data / documentation creation up to development and integration of a CMMS/ERP of Shipdex TM data;
 - Availability of first Technical Manual for maritime equipment completely developed and supplied in accordance to Shipdex TM protocol;

ShipdexTM Members expectations

- Diffusion of ShipdexTM as maritime EDI standard
- Availability of Data in ShipdexTM format for PMS
- Real Electronic Manuals and Tech Library availability
- Use of ShipdexTM also as a standard for maritime e-commerce
- Possibility to use the same elementary info in electronic format to feed PMS, Quality, Technical Library and Training Computerized Systems
- Use of ShipdexTM protocol as a standard for data exchange between Class Societies and Ship Owner
- ShipdexTM as maritime industry standard solution
- ShipdexTM as competitiveness factor



Shipdex™ - The future

- ❑ Possibility to share the “equipment installation information” (ship configuration, e.g. IMO/SFI/PN/SN);
- ❑ Possibility to use Shipdex™ protocol for data telemetry;
- ❑ Possibility to exchange field data to improve the service (various readings as reported during maintenance);
- ❑ Possibility to supply Shipdex™ Service Letter/Service Bulletin to ship-owners on the basis of received “equipment installation information”;
- ❑ Possibility to automatically process technical changes received as Shipdex™ Service Letter/Service Bulletin from manufacturers;

SHIPDEXTM COMMUNITY

- SHIPDEXTM is a non profit organization
- SHIPDEXTM protocol is open to all
- Introduction to SHIPDEXTM business rules free to download from www.shipdex.com
- Full access to SHIPDEXTM specification upon registration at www.shipdex.com
- Registration is subject to registration and annual subscription fee (to cover maintenance and enhancement of the protocol)

Shipdex Conference Augsburg

THANK YOU FOR YOUR ATTENTION

**AND FOR ANY QUESTIONS WE WILL BE AVAILABLE
AT PANEL SESSION**