


**Sharing Information  
about Vessel Condition**

London, 4<sup>th</sup> February 2004  
Patrick Slesinger

**TANKEROperator** 

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**Issues we were trying to address**

- Time and cost of report production
- Distribution and availability of reports
- Non repudiation and tamper proofing
- Lifecycle reporting rather than snapshot
- Reuse of reports to enable greater reporting depth
- Enable subjective based decisions by both the report builder and viewer



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**Yesterday's Reports**

- Single copy production
- Paper based
- Distribution via courier
- Tamper detection not available
- Cost
- Single use
- Knowledge of report availability uncertain



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## TransparentSea Project

- Review of vessel condition reporting in 1997
- Prototype of system in 1999
- Collaboration with LISCR on Flag State version started in 2001
- Commercialized version of the product available in 2003



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## The Parties



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## System Architecture

- Builder
  - On Inspector's / Surveyor's PC
    - Builder Lite – No internet publishing or PKI
  - Used on Wallem Vessels for reporting
- Repository
  - AdHoc and interested party owned
  - Report access granted or denied by Repository Owner
- Viewer
  - Internet download of similar size to Acrobat Reader
  - PKI based tamper detection



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## Subjectivity

Surveyor or Risk Manager ?



- Reassess subjective comments made by report author
- Tamper-proof digital imagery



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### Condition Reporting Over a Vessel's Lifetime



- Historical condition reports
- Evaluate over an extended period

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### Availability and Security of Reports



- Internet Enabled
- Efficient Report Development and Distribution
- Sophisticated Public Key Infrastructure
- Membership controls
- Tamper-proof

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## A modern approach to documenting vessel condition



- Digital Reporting
- Real-time Accessibility
- Functionally Rich
- Secure



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## Why do we need TransparentSea?



- Stake holders: different perspectives
  - Identify and Eliminate Risks
    - Owners, Managers
    - Flag State
    - Charterers
    - Port State
    - Underwriters
    - Security Administrations



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## Structural Condition Assessment

- Take advantage of the limited opportunities
- Preserve with a dynamic assessment tool
- Properly evaluate internal structural condition



- Dry-Dock
- Major Repairs
- Gas Free
- Staging Requirements



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### Proliferation of Inspections

Imagine the cost savings if thorough reports were readily available and could be reused



A collage of logos from various organizations, including the U.S. Coast Guard, EgonMobil, OCTMF, and WALLEM, illustrating the proliferation of inspections.

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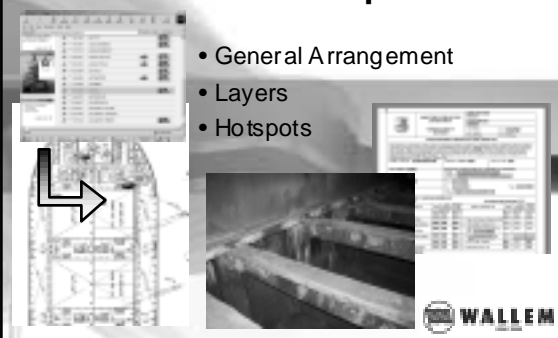
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### Structure of Reports

- General Arrangement
- Layers
- Hotspots



Screenshots of software interfaces and a physical structure, illustrating the structure of reports. The WALLEM logo is visible in the bottom right corner.

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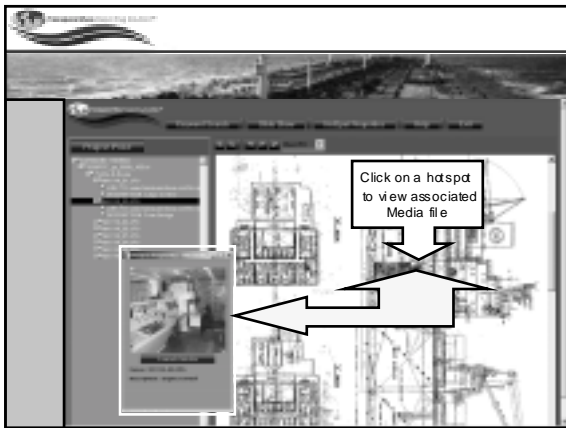
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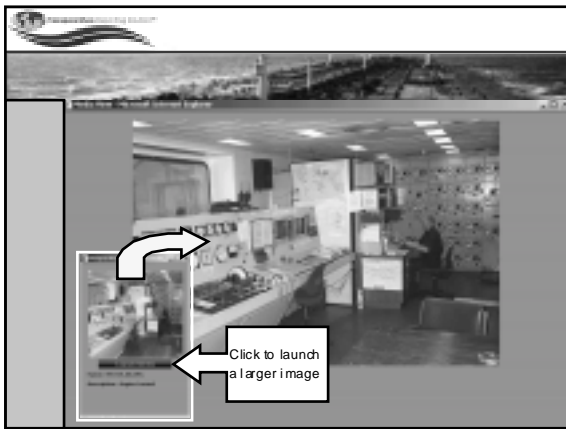
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**Conclusion**

- Secure technology is available to share reports and keep them tamperproof
- Multiple reuse of reports would allow greater depth reporting
- Allow subjectivity at both the viewer and report builder
- Enable lifetime reporting and condition assessment



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**Questions & Answers**



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**TransparentSea Reporting Solution™**

For more information please visit :

<http://www.transparentsea.com>



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