

# Design Transparency VS. Intellectual Property Protection

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### 1. The Facts of GBS/SCF



- GBS are IMO-Rules for <u>Class-Rules</u>.
- Conformity of "Class-Rules" with GBS shall be verified by IMO.
- Ship Construction File (SCF) is to certify Design & Construction of "Each Ship" conform with GBS.

SCF covers <u>all information</u> relevant to structural safety, and shall be kept "on board" throughout ship's lifetime according to <u>draft SOLAS amendments</u>.

### 2. Problems Involved



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- Since Shipyards usually offer short guarantee period, Design & Construction transparency and longterm traceability are required by IMO.
- Unilateral transparency can lead to leakage of intellectual property (IP) of Shipyards.
- Easy dead-copying and "steal a ride" catch-up can jeopardize continuous investments in R&D, and hence technological stagnation within whole maritime sector.
- Countermeasures are essential.

## 3. Actions Taken by Shipyards

- Responding to presentations made by CESA & SAJ at Tripartite Meeting 2008 in Beijing, cross industry agreed to find out a practical solution.
- On appeals made by CESA & SAJ, MSC 85 agreed to stipulate "Due consideration to IP" in GBS & SCF guidelines.

Considering concept paper submitted by cross industry, MSC 86 agreed to wait for concrete proposals to be made at MSC 87 (May, 2010).

# 4. Cross Industry Partners



Cross industry partners are composed of major Shipbuilding, Shipping and **Classification** associations. 1<sup>st</sup> meeting in Brussels 2<sup>nd</sup> meeting in London 3<sup>rd</sup> meeting at MSC86 in London 4<sup>th</sup> meeting at Tripartite meeting **BIMCO** 2009 in Seoul INTERTANKO 5<sup>th</sup> meeting in London NITERCARGO (18<sup>th</sup> Nov., 2009) The 3rd Asian Shipbuilding Experts' Forum in Shanghai (3-4 Dec. 2009) 5

# 5. Concept Suggested at MSC 86

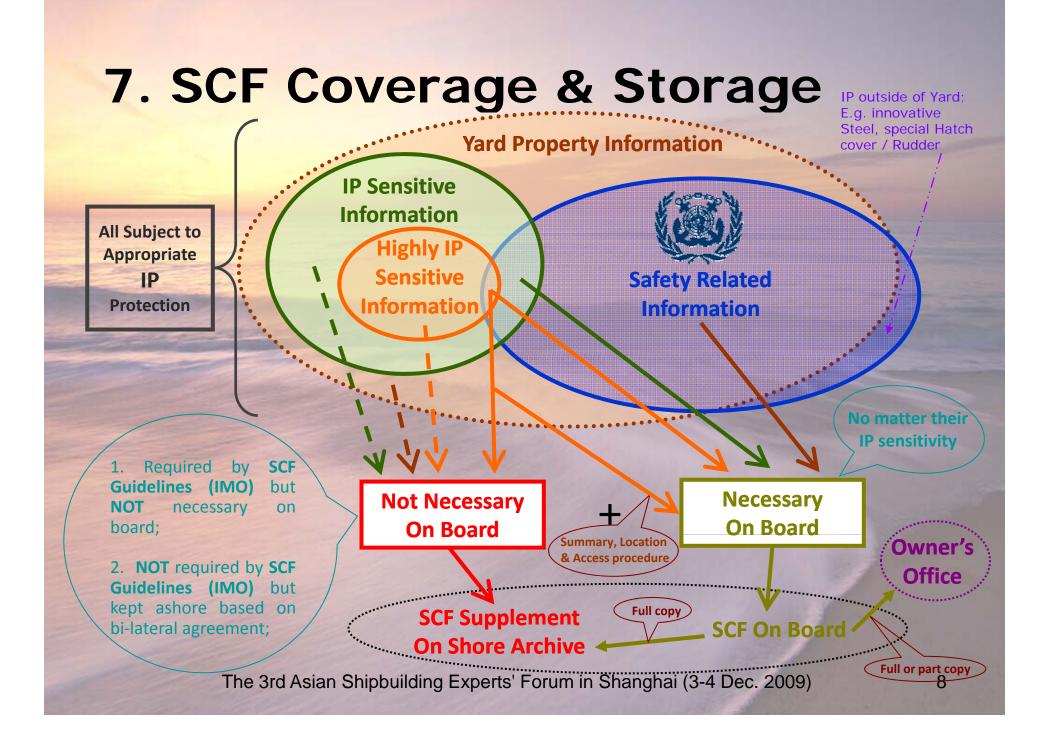
Shipyards ensure Transparency. Ship Owners respect IP. In order to achieve right balance, **Highly IP sensitive information which** is unnecessary to be retained on board at all times might be kept ashore, subject to availability on demand. > To be (kept on board), or not to be: that is the solution ! (suggested by cross industry)

# 6. Cross Industry Agreements

- At Tripartite Meeting 2009 in Seoul, cross industry reconfirmed the principle and directions; "SCF onboard & SCF Supplement onshore".
- Cross industry will tune up, and jointly submit draft SCF guidelines and amendments to SOLAS & GBS verification guidelines to MSC 87.







## 8. Scope of Joint Submission

- Draft definition & list of SCF contents which covers all safety-related information required by SOLAS-GBS
- Principles of availability, storage and update of SCF
- Attention to IP protection

Storage of <u>each</u> SCF information and detailed access procedures should be left to industry standards. (Tier V of GBS)

### 9. SCF Archive Specifications

Long-standing & stable Neutral among IP holders Internationalized Excellent in security control Full of quality & economy senses Capable of early backup-recovery Open 24 hours & 365 days for information delivery on demand

#### **10. SCF Archive Operator**

Virtual SCF Archive might be composed of a lot of archives operated in various places individually, subject to common specification.

Rise and fall of specific archive depend on quality & cost of its longterm service.

### **11. IP Control Measures**

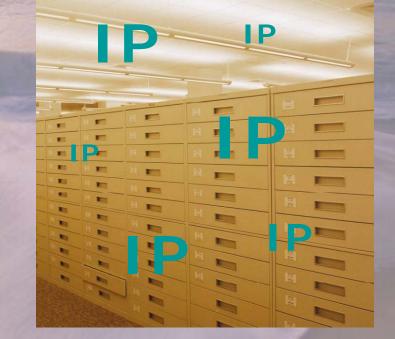


IP Control Measures should be;

- Strict enough for sure IP protection
- Simple enough for smooth access
- Robust enough for onboard utilization
- Durable enough for lifetime service
- Compatible enough for ext. systems
- Economical enough for the industry
- Compliance with Standard Confidentiality Terms & Conditions is a firm baseline.

### **12. Key : Access Identification !**

> Who ?
> When ?
> Where ?
> Why ?
> to What ?
> How often ?



13. Tool for Practical Solution ? - Biometrics Authentication -

Fingerprint





#### Getting common in Government, High-tech. industry, Bank ATM, Immigration control, etc. The 3rd Asian Shipbuilding Experts' Forum in Shanghai (3-4 Dec. 2009)

## 14. On and After MSC87

Cross industry wishes MSC 87 would accept joint proposals, with positive support given by Shipbuilding & Shipping member States, and recognize future development of detailed industry standards.



- GBS will be adopted at MSC 87.
- GBS & SCF guidelines will be applied to new ships from 1<sup>st</sup> Jan. 2015.
- > By the time, cross industry must make all preparations.

# **15. Probable Expansion of GBS**

- GBS might expand to cover ship types other than BC & OT, and/or areas other than hull structure in near future.
- Unrelated to IMO, Shipping industry may request expansion of information to be kept at onshore Archive.
- Shipping industry may also request application of SCF guidelines before IMO program.





# 16. Digression ; Rule-making

- It is important and fruitful to take part in international Rule-making at <u>early stage</u>.
- IMO welcomes voluntary & timely standards/best practices, which are proposed by Industry, for improved safety and environmental protection.

When some issue is taken up for IMO discussion, drafts made by member States and/or Shipping industry used to be the base hard to vanquish.

### **17. Consultative NGO**

- Asian Shipbuilders cannot escape from international regulatory regime.
- If that's the case, it is better to have direct channel of communication at IMO as an NGO like CESA.
- If Asian Shipbuilders are recognized by IMO, we might be consulted in advance about issues such as SCF.
- Asian Shipbuilders can provide our own messages & proposals to IMO.

### **18. New NGO and CESA**

- Shipping industry has more than 10 NGOs.
- Machinery & Equipment industry has more than 5 NGOs.
- Total No. of NGOs at IMO is over 70.
- At present, only CESA has NGO status.
- 2 NGOs representing Shipbuilding industry can be more powerful at IMO.

# Thank you for your attention

