

Shipdex & Class



Tobias Vorberg

Vice President System Integration and Development

Germanischer Lloyd

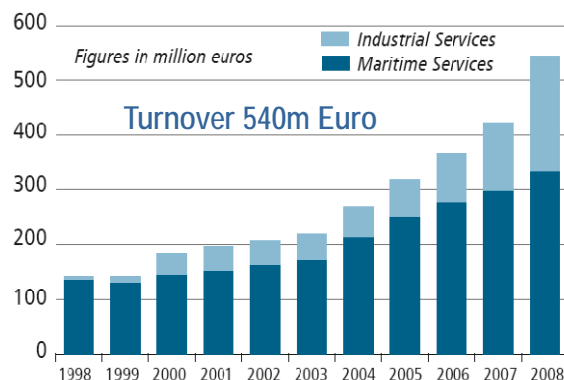
Personal facts

- Name: Tobias Vorberg
- Study: FH Wedel (University of applied sciences; business information technology)
- Employed at Germanischer Lloyd for over 12 years now
 - IT Coordination in Division for machinery approvals
 - IT process consultant
 - Head of Department for e-business portals
 - Head of competence centre for system integration and development
- Infected by the “shipping virus” since I was a boy, because of familial roots at Hamburg Harbour
- Married; 3 boys (11,6,4 years)
- Sports: Offshore Sailing (long-distance races and crossing the Atlantic)



Germanischer Lloyd

- Overview: 140 years of experience
 - 1867 founded as German maritime classification society
 - today a World class technical assurance and consulting company
- Business: Maritime Services and Industrial Services
 - Ship classification; Certification and technical consultancy
 - Engineering and consultancy in the Oil and Gas segment
 - Consultancy within the renewables industry



- Over 6,700 employees, more than 200 offices, 80 countries.
- Leading classification society responsible for more than 6.900 vessels in operation
- Global leader in marine warranty services and dynamic positioning assurance
- Comprehensive service portfolio for marine, offshore and renewable energy companies in all regions
- Global leader in technical services for the oil & gas industry

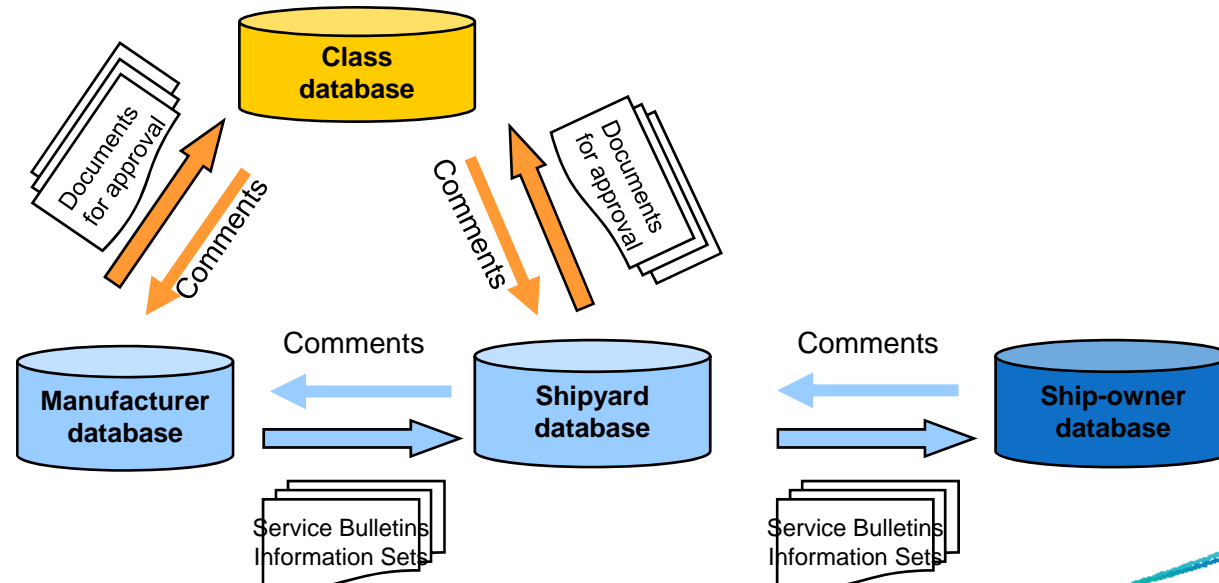


Shipdex and Class

Shipdex is addressed to all our customers ...

- ❑ **Manufacturers** → to create the Shipdex datasets (technical data) to be exchanged
- ❑ **Shipyards** → to manage “ship configuration data”
- ❑ **Ship-owners** → to import technical data into their Information Systems
- ❑ **maritime IT companies** → to improve their Information Systems to manage Shipdex datasets

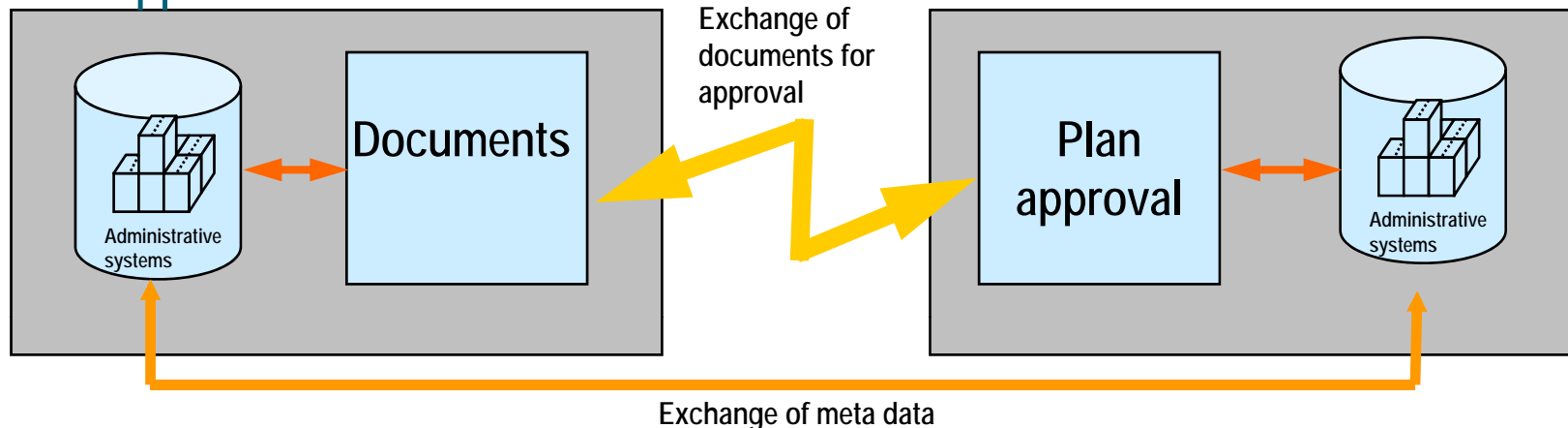
... therefore the “Class communication” will be heavily affected!



Germanischer Lloyd - the leading class on computer aided approval

- ❑ The cooperation with our customers like shipyards, manufacturers and suppliers has been supported more and more electronically (Collaborative Work)
- ❑ By this the processes has to be more efficient and the administrative costs for GL and its customers needed to be reduced

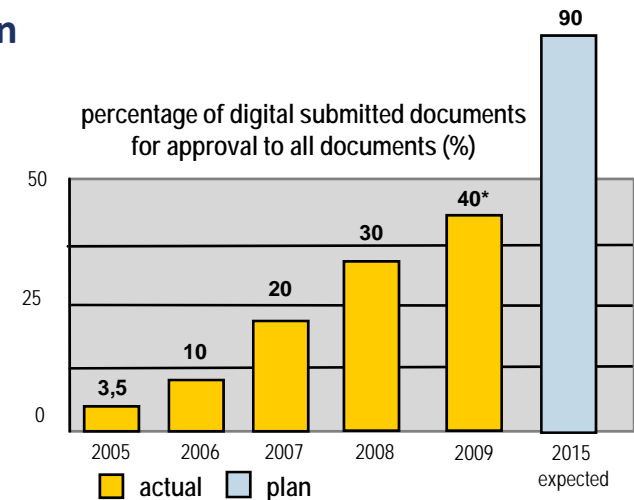
shipyards, manufacturers
and suppliers ...



Shipdex based!

Computer Aided Approval – CAA (1/2)

- ❑ Initial situation 2005: circa 1 million pages (including small and also large-format drawings) were submitted for approval to GL per year; the approval process was paper based; first customers asked for digital submission
- ❑ We started a project for “Computer Aided Approval”
 - ❑ with the highest transparency for the customer
 - ❑ with full functionality at connected locations worldwide
 - ❑ with efficient processes time- and capacity-optimized
- ❑ This generated three important components
 - a. internet portal for electronic data exchange with customers
 - b. internal workflow system for approval process
 - c. specialized workspaces for handling and remaking small and large plans

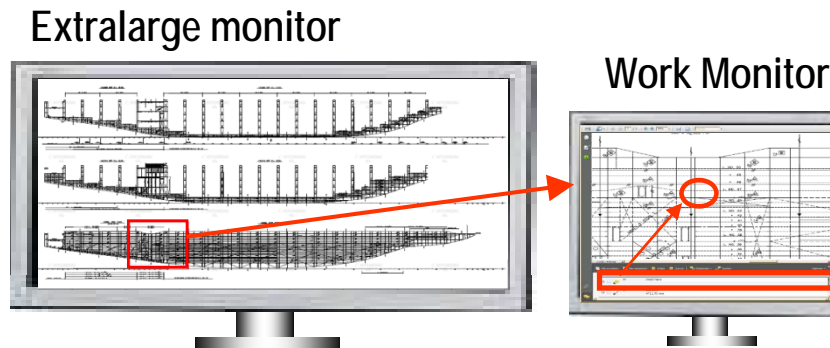
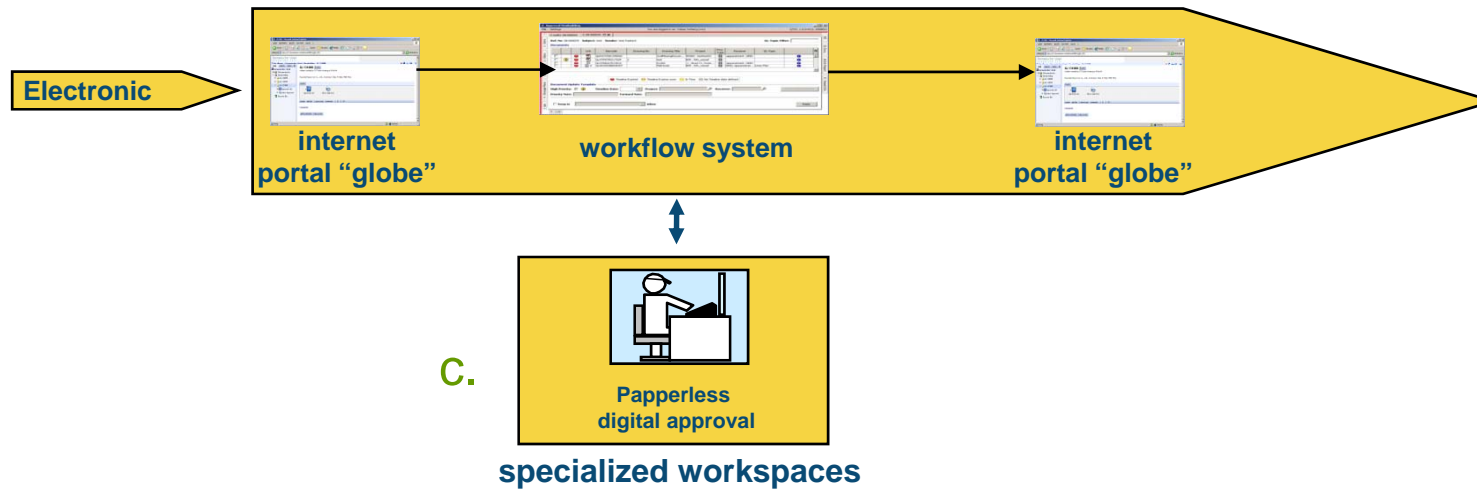


* nearly all these documents are handled digital via CAA

Computer Aided Approval - CAA (2/2)



- a. Incoming from Customer
- b. Processing control / workflow and filing
- a. Outgoing to Customer



Overview on extra large monitors and details checked on working monitors

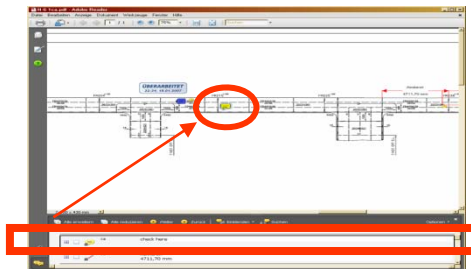
What are the benefits for GL customers?

- ❑ **Faster approval:** Shorter design times because of faster and global exchange of information
- ❑ **Lower costs:** CAA will reduce the administrative costs of class approval by reducing paper and their handling costs
- ❑ **Better overview:** CAA allows continuous and fast access to approved documents and the status of the project documentation



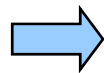
Without CAA:

- Customers frequently receives a large stack of documents and have to find the corresponding remarks in order to evaluate them



With CAA:

- Customer receives a PDF document containing a list of all remarks
- Remarks in the list are linked to the presentation in the document
- List can be processed in an orderly way and, if necessary, commented and returned to GL



**All these benefits will be positive affected
by a more structured and harmonized communication**

What are the benefits for GL to work on Shipdex based information?

For even more efficiency, a consistent digital handling of the documents is necessary:

- project related digital delivery and filing
- Connecting to a digital workflow system for reducing handling costs and eliminating media breaks
- Use, editing and approve of digital documents directly on the screen (no paper)
- ? Communication on a standardized data structure with all parties for reducing the registration and data input work

**Already established
at GL with
the CAA project**

Last part can only be reached by a community with same interests

 **GL focus on Shipdex for this solution**

Summery and Perspective

Germanischer Lloyd focus on Shipdex from two directions

Commercial and efficiency (as shown)

- Plan approval costs can be reduced
- Cycle time for approval orders can be reduced
- Processes on all sides can be more efficient

Safety (perspectively)

- Defect prevention at ship newbuildings
- Faster Emergency Response Service, because of easier data transmissions and interpretation
- Prevention of disasters, because of better filled Planned Maintenance System

Thank you for your attention

