



Hapag-Lloyd

CA Gen Usergroup



Hapag-Lloyd Overview

CA GEN @ HL in Figures

Current Architecture

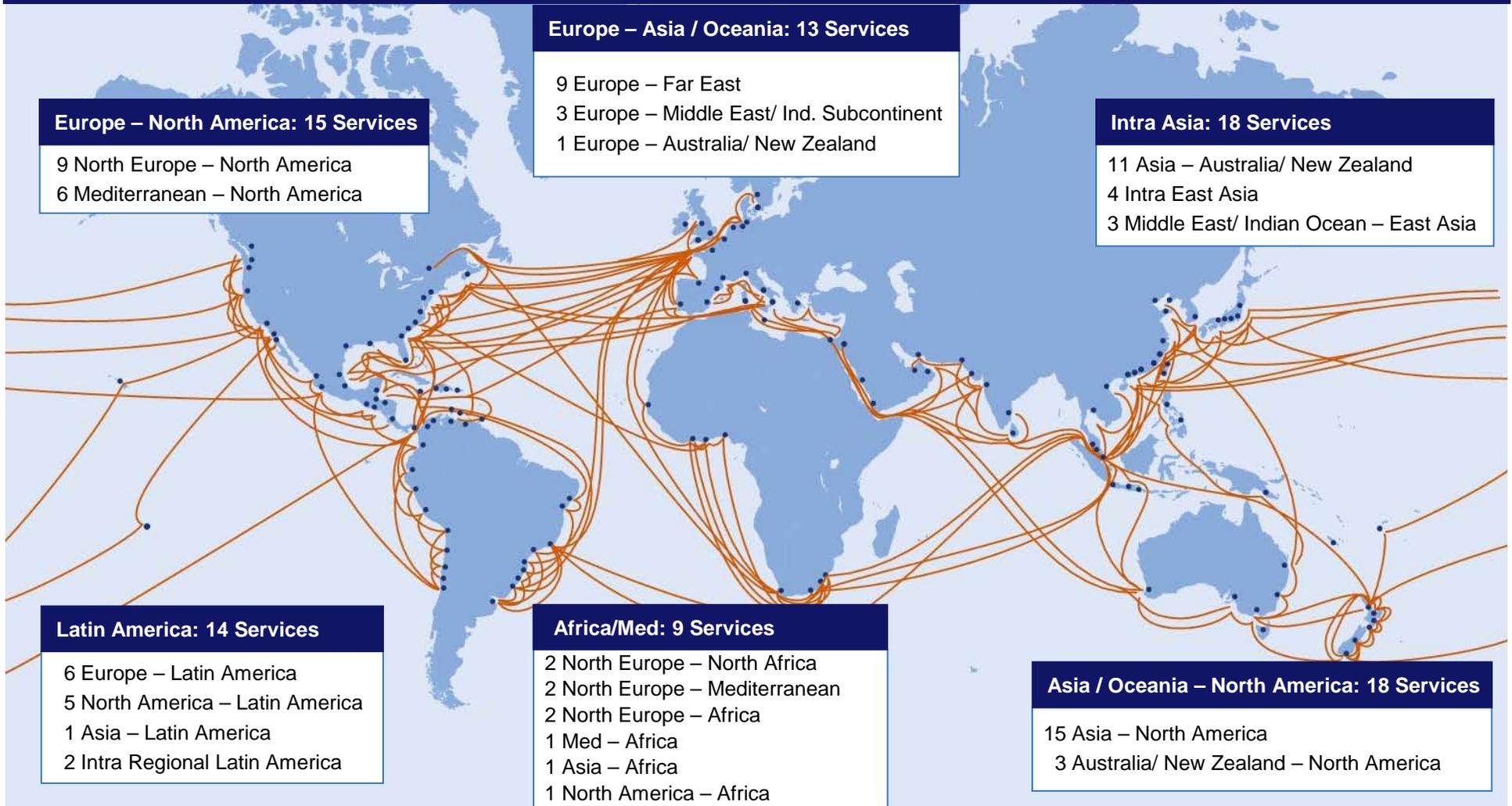
The Idea



Hapag-Lloyd at a Glance

- One of the leading global container shipping companies
- Extensive service network with 87 services around the globe
- 138* modern container vessels with a capacity of about ~621,000 TEU and more than 1.0 million containers (TEU) of various types
- Global presence with about 300 sales offices in 114 countries
- Employees: ~6,900

87 Services around the Globe

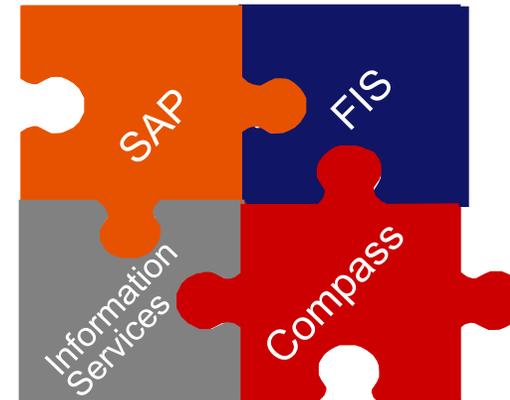


IT Infrastructure



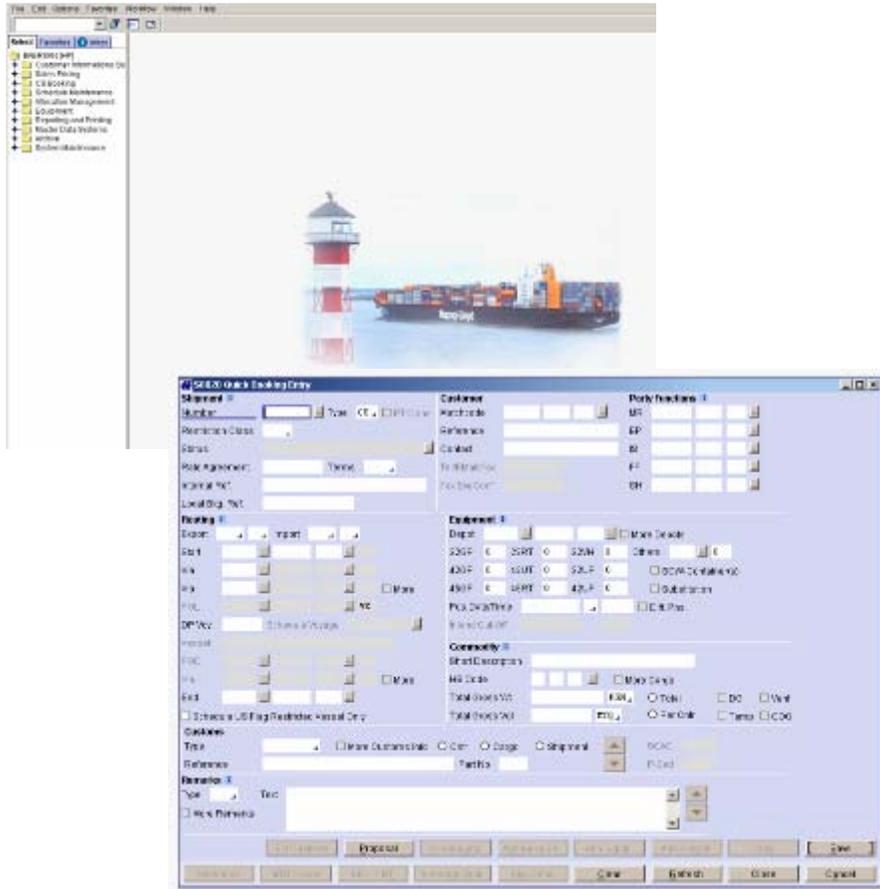
- Global IT managed centrally in Hamburg
- Development and maintenance is mainly handled in-house
- System and network operations provided by IBM and SITA/Orange
- 24 hours / 7 days service
- Service quality ensured by service level agreements with providers

Four Key IT Systems



- SAP: Used for Finance, Controlling, Treasury and Purchasing
- Freight Information System (FIS): Supports all operations & business processes
- COMPASS: The central data warehouse and the steering tool for our processes
- Information Services: For internal and external information exchange

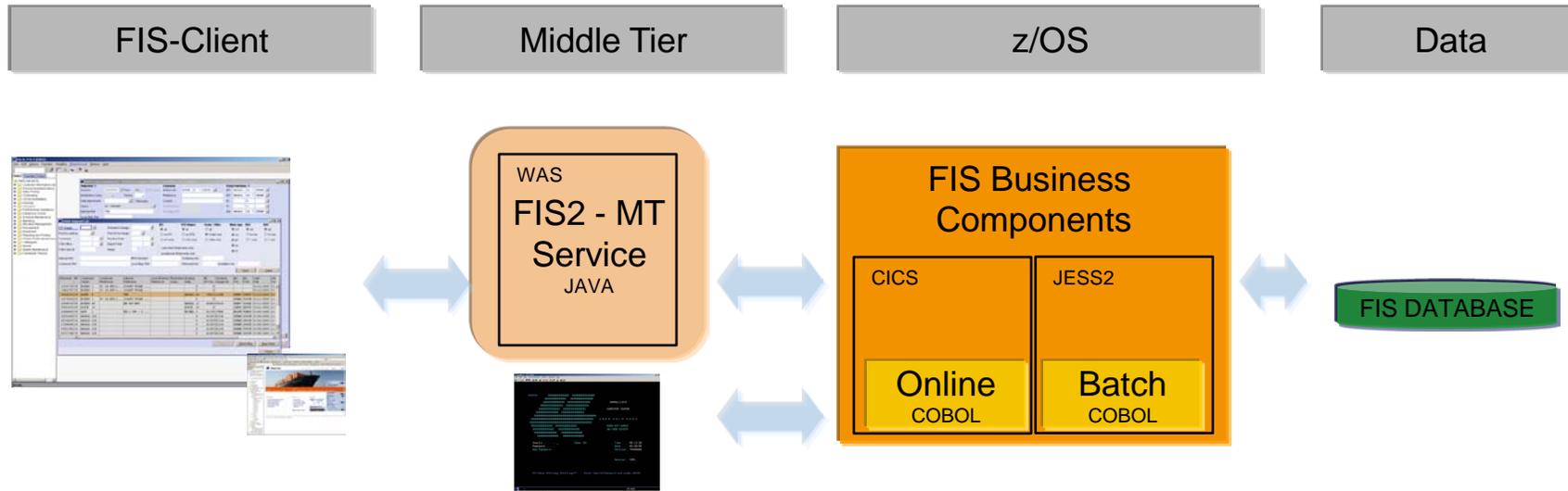
One Global Operational IT System



- Integrated ocean carrier transport and logistics system
- Covering the entire transport chain and interfaces with all other IT systems
- Using one transport file worldwide for each transport in a central database
- Real-time access to all data for every order, irrespective of the location
- Highest reliability and availability

The Key to the
Organisation's Success

- = 1 all-embracing Enterprise Data Model
- > 1000 GEN based Entities
- > 90.000.000 Objects within mainframe CE
- > 70 Models in use
- > 14.000.000 Objects within our largest operative model
- > 25.000 GEN generated modules
- > 18 Years of production of GEN (alias IEF) based application



Mainframe and COBOL: Are you serious ?

Mainframe and COBOL: Where to get the Experts ?

Mainframe and COBOL: What about 3rd party libraries ?

Mainframe and COBOL: Expensive !

CA GEN: Are you serious ?

CA GEN: a bit old-fashioned !

CA GEN: no integration capability !

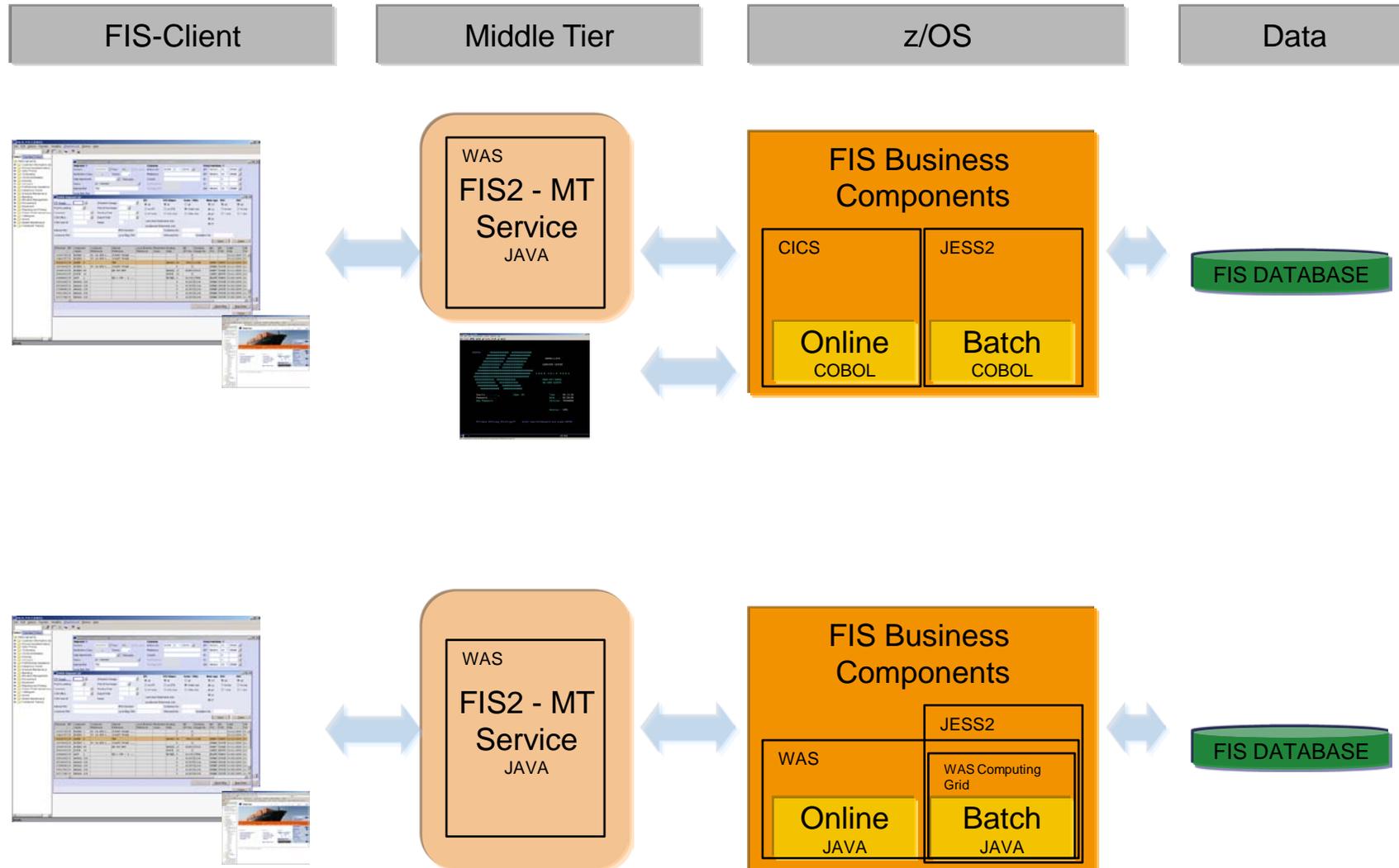
Why FIS COBOL -> Java

- ✓ Increase Integration / Interfacing capabilities
- ✓ Enable utilization of 3rd party libraries
- ✓ Boost perception of FIS as state of the art technology
- ✓ Provide modern GUI based Debugger for GEN Pseudocode
- ✓ Move workload from general purpose processor to special purpose processor
- ✓ To gain theoretical platform independence
- ✓ Enable true local / offline development
- ✓ „FIS to GO“ as training system
- ✓ Availability of expert Skills

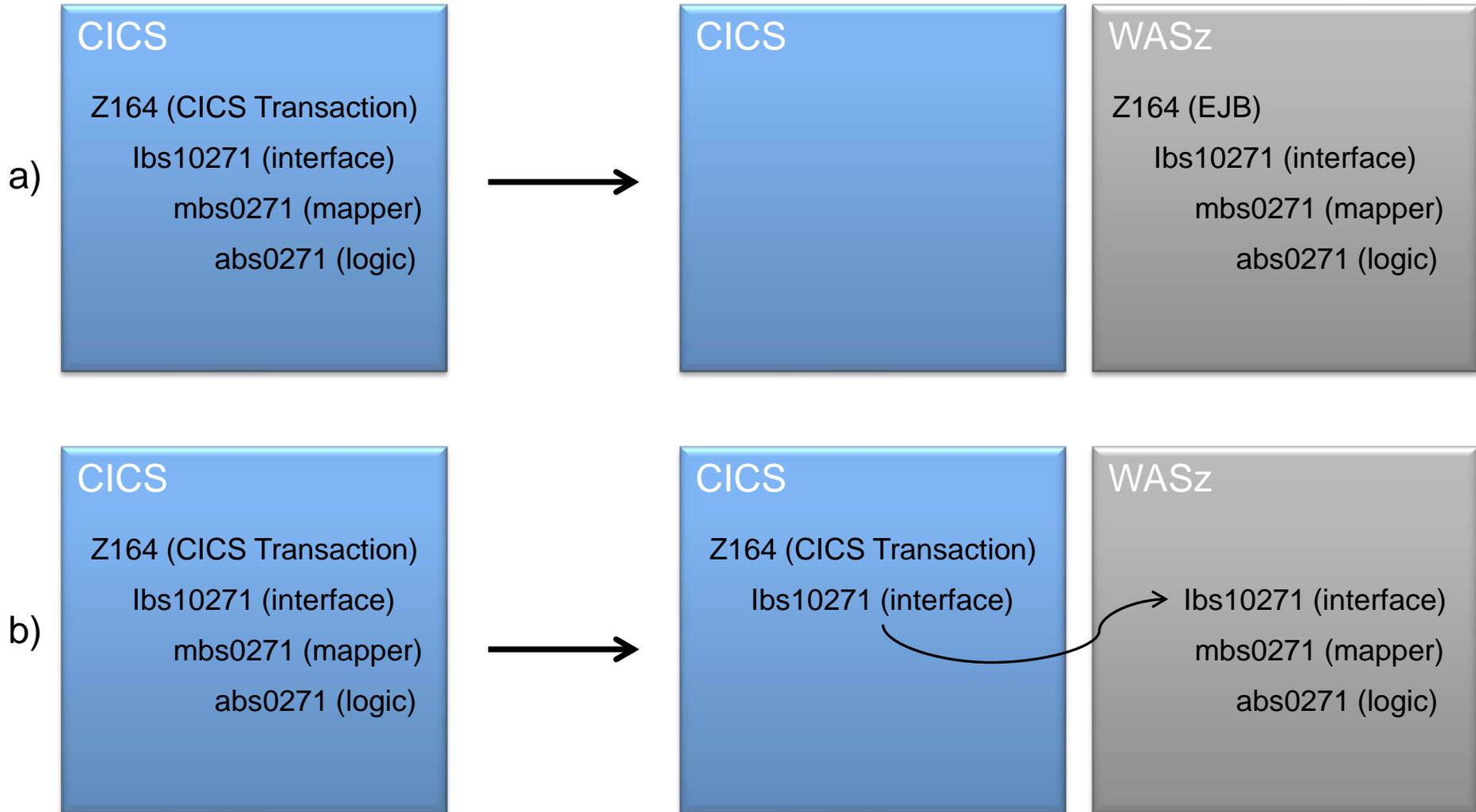
Can we ? – Yes we can !

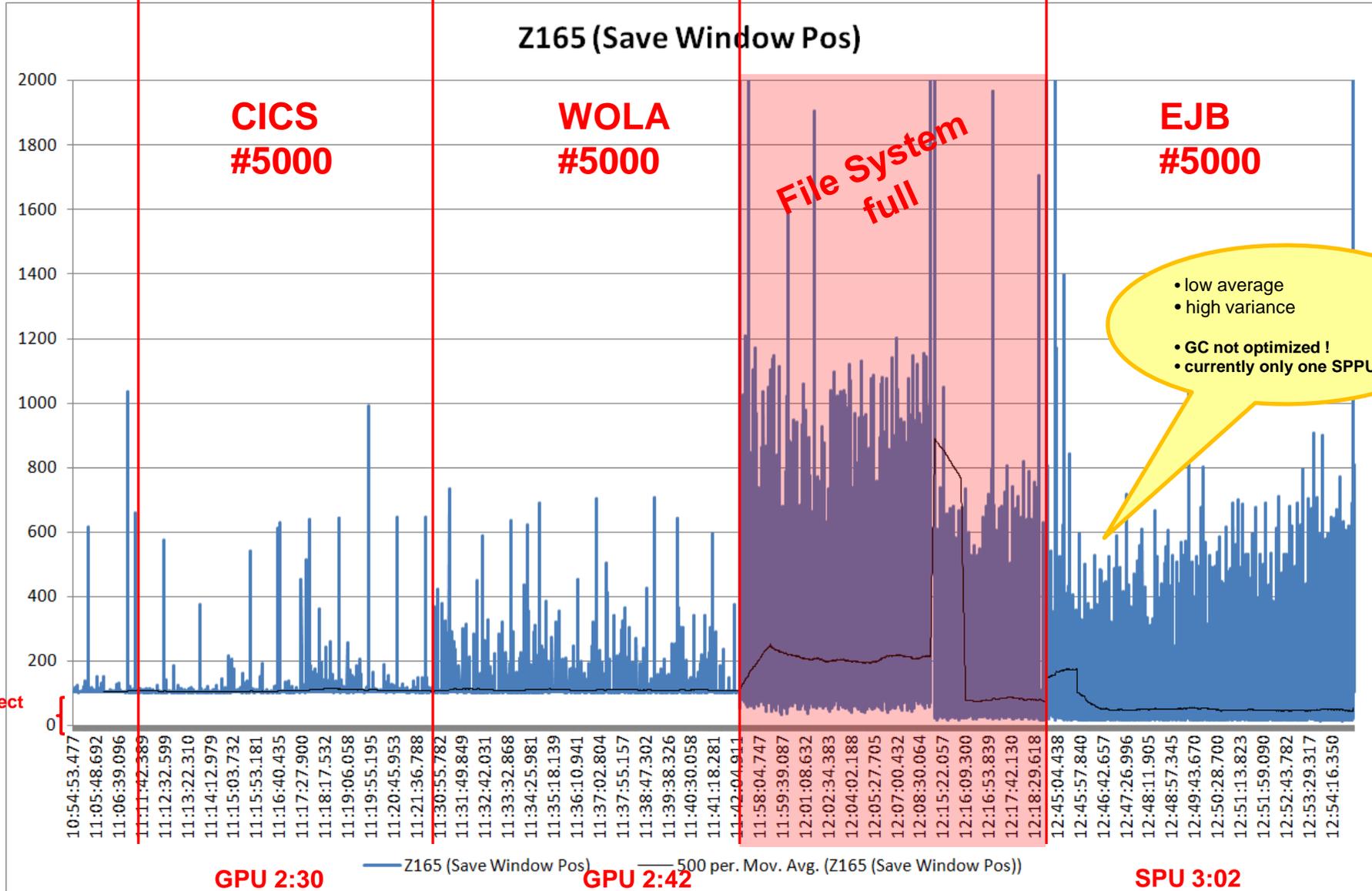
- ✓ > 98% independence between business code and low level implementation language
- ✓ JAVA is a proven target platform for CA GEN
- ✓ No change in architecture necessary
- ✓ ‘just’ exchange TP monitor and implementation language
- ✓ smooth migration possible – but avoid redundant bilingual components !

What does really Change ?



To GEN or not to GEN – is this a question ?





Any Questions ?

