IFS Applications—Powered by Oracle

• IFS CUSTOMER SUMMIT 2011, CHICAGO
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Breakout Session Agenda

• IFS and Oracle Integrations Today
• Hardware and Software – Engineered to Work Together
• Performance Benchmarks – IFS Applications on Oracle Infrastructure
IFS and Oracle
Integrations Today
IFS and Oracle Partnership

• Oracle PartnerNetwork “Specialized” Program
  – Differentiates partners through Specializations

• IFS achieved 5 “Specializations”
  – Oracle Database
  – Oracle Database Performance Tuning
  – Oracle RAC
  – Oil & Gas Industry
  – xxx

• IFS & Oracle collaborate regularly on technology
  – Beta programs
  – Technology insights
  – Benchmark testing

• What this means to you
  – Confidence
IFS and Oracle Integrations Today
Agility with Enterprise-Grade RASP

Middleware
- Oracle WebLogic Server
- Oracle JRockit
- Oracle Hotspot

systems
- Oracle Solaris
- Oracle Sun Hardware

Document Collaboration & Project Performance Management
- Oracle Autovue
- Oracle Primavera

Database
- Oracle Database
- Oracle RAC
- Oracle Active Dataguard
- Options
“Many of our customers run global businesses with 24 by 7 requirements, so taking their IFS applications offline to perform maintenance causes them serious inconvenience and even revenue loss. We have tested the new edition-based redefinition capability that Oracle Database 11g Release 2 brings during our participation in its beta program and we are excited at the prospect of deploying it to enable the online upgrade of IFS Applications. Our customers will then be able to install updates to our applications' database objects, including tables, while the applications remain open for normal use.”
Why Upgrade to Oracle Database 11g
Lower IT costs AND improve Quality of Service

- Improve OLTP & DW performance
- Optimize storage resources
- Completely secure information
- Eliminate downtime & unused redundancy
- Reduce management overheads
- Reduce server and storage sprawl
Oracle WebLogic Server 11g
Ranked “Leader” by Gartner 9 Years in a Row

- Certified for IFS Applications
- Reduce Operational Costs by 50%
- Increase Web Application Capacity 3 x on Existing Server Infrastructure
- Improve Service Levels
- Enable Innovation While Reducing Risk
- Can handle the largest implementations
AutoVue Enterprise Visualization
View & Collaborate on Project Critical Documents and Information

- View, analyze, print and share any document type
- Add digital annotations & comments
- Real-time collaboration with global teams via web
- Access docs online/offline
- Print & batch print docs
- Integrate with enterprise systems via standard-based framework
- Expose, use and enrich visual context into PLM, ECM, PPM, ALM…
AutoVue & Primavera P6 Web Integration
Improve Visibility During Complex Maintenance Projects

- Accelerate project delivery by providing the right documents to the right resources at the right time
  - include engineering, facilities, & asset documents
  - provide access to in-context information for improved decision making
  - deliver single point of access for all project documents

- Validate project feasibility, schedule activities and level resources across projects
  - respond quickly to unplanned changes & events
  - avoid costly schedule or physical conflicts, errors, & delays

- Capture and reuse important lessons learned
  - Document project tasks and activities with digital annotations /comments
Hardware and Software

Engineered to Work Together
Oracle’s Strategy

• Deliver **Complete, Open, Integrated Business Solutions** to customers for their industry

• Provide flexibility and choice by integrating Oracle Software on an **Open Standards Based Architecture**

• Transform the data center integrated **Systems and Hardware** that provide breakthrough performance and unprecedented lower cost of ownership

• Enable customers to deploy **Cloud Computing** strategies through a full-range of innovative technologies
SPARC Supercluster
New World Record on TPC-C Benchmark

• 30.2 million transactions per second
• 27 SPARC T3-4 servers
• 138 Sun Storage F1500 Flash Array
• 97 Sun Fire X4270 M2 storage servers
• Oracle Database 11g on RAC with 1 quadrillion rows of data
• Oracle Solaris 10
• 43 trillion transactions per day – avg response time < 0.5 second
Oracle Exadata X2-8
“The Database Machine”

- **Fastest** for Data Warehouse & OLTP
- **Best** Data Warehouse & OLTP Cost / Performance
- **Best** for Database Consolidation
- 100% Fault Tolerant & Scalable On-Demand

Oracle Database Server Grid
- 2 8-Socket Intel Servers
- 128 Cores
- 2 Terabyte DRAM

Unified Server/Storage Network
- 40 Gb/sec Infiniband Links
- 880 Gb/sec Aggregate Throughput
- 10 Gigabit Ethernet to Data Center

Exadata Storage Server Grid
- 14 Storage Servers
- 5TB flash storage
- 336 TB Disk Storage
Oracle Exalogic
“The Elastic Cloud”

- **Fastest** Java Performance
- **Best** Java Cost / Performance
- **Best** for Application Consolidation
- **Best** For Elastic Capacity On Demand
- **100%** Fault Tolerant

Oracle Weblogic Server Grid
- 30 Compute Servers; 360 Cores
- 2.8 TB DRAM
- 960 GB Solid-state Disk

Infiniband Network
- 40 Gb/sec Inifiband Links
- 1.2 micro second latency
- 10 Gigabit Ethernet out

Integrated Storage Appliance
- Software Images & Application Files
- Patch Centrally
- 40 TB SAS Disk Storage
- 4 TB Read & 72 GB Write Caches
“This thing is just tuned to make Java scream.”

Quote Attribution
Oracle CEO Larry Ellison
Oracle’s Optimized Solutions

- Optimization **across the Full Stack**
  - Early development stage testing
  - End-to-end functionality validation
  - Interoperability testing
  - Fault injection testing
  - Load/stress testing
  - Performance and scalability testing
  - Real world workload testing
  - Sizing and configuration optimization

- Integration is driven by Organization Alignment
- Synchronization of Hardware and Software Release Schedules
- Single patch – Single source for support
Why Engineering Integration Matters

Customer Integrated

- Management Tools
- Oracle
- Red Hat Enterprise Linux
- VMware
- HP
- Brocade
- EMC/NetApp

Oracle's Engineered Stack

- Management Tools
- Applications
- Middleware / Database
- OS / Virtualization
- Server
- Storage Network
- Storage

Lower Cost / Greater Capabilities / Accelerated Deployment
Hardware and Software

Engineered to Work Together

- Innovation delivered faster
- Better performance, reliability, security
- Shorter deployment times
- Easier to manage and upgrade
- Lower cost of ownership
- Reduced change management risk
- One-stop support
Benchmark Results
IFS Applications on Oracle Infrastructure
IFS Benchmark Testing on the Oracle Stack

- Position IFS on the high end market for ERP specialized in Manufacturing, Projects and Supply Chain Mgmt, proving unprecedented performance
- Strengthen the IFS – Oracle partnership on the HW / OS side
- Address customer expectations of 5000 concurrent users
Benchmark results entered here
## Customer Use Case

**Technip**

### PROFILE
- Leading provider of Engineering, Technologies and Project Management services serving Oil & Gas for 50 years
- 23,000 team members in 46 countries generating approx. 23 million of contracts man-hours performed
- Industrial assets in 5 continents with a fleet of 19 vessels in operation
- Build and deploy a global solution for Technip engineering businesses that delivers convergence across Technip

### CHALLENGES
- Replace all existing Finance, Procurement, Subcontracting, Project Controls and Planning systems
- Industrialize the roll-outs to replace legacy systems
- Build and deploy a global solution for Technip engineering businesses that delivers convergence across Technip

### SOLUTION
- Deployed IFS Application on WebLogic Server 11g as replacement for JBoss
- Business continuity guaranteed through **Oracle RAC and Active Dataguard on Oracle Database 11gR2**
- Solid security based on **Oracle Identity Management**, passing Audit and Penetration tests
- **Reduced risk** through adoption of same IFS – Oracle infrastructure for multiple projects
- **Decreased operating costs** through standardization – expected ROI in 5 years