

Welcome!

- Please connect to the 'clear-guest' wireless network
 - Username: guest
 - Password: XXXXXXXX
- There are also DVDs and USB flash drives being passed around that contain the VirtualBox VM, lab guides and presentations for the class. Please copy the files to your laptop and pass the media to another person.

Oracle WebLogic Server

The #1 Application Server for
Enterprise Java and SOA Developers



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APAC Partners WebLogic Workshop Introduction & Lab Orientation

Presenter's Name

Presenter's Title



Welcome & Introductions



WebLogic Experience?



Coherence Experience?

Workshop Goals

- Understand the benefits of WebLogic Suite and the differentiated features it offers
- Work hands-on with WebLogic Suite: WebLogic Server, Coherence and Enterprise Manager
- Learn how to use these key features:
 - Coherence Data Grid
 - TopLink Grid – JPA on the Grid
 - ActiveCache / Coherence*Web – Session State on the Grid
 - Active GridLink for RAC
 - WebLogic Management Pack EE

Workshop Format

- Presentations:
 - Coherence & Active GridLink Overview
 - Lab Introductions
 - EM Features & Overview
- Hands-On Labs:
 - Coherence*Web
 - TopLink Grid
 - Active GridLink
 - Enterprise Manager

Workshop Focus

WebLogic Suite

Coherence EE

- Data Grid
- TopLink Grid
- Active Cache & Coherence*Web

WebLogic Server EE

- Active GridLink

WLS Mgmt Pack EE

- Business Transaction Management
- Performance & Diagnostics
- Lifecycle & Configuration Management

IAS EE

- Forms & Reports

Java SE Suite

- JRockit Mission Control

Day	Time	Session Details
Day 1	09:00 – 9:30 am	Welcome & WebLogic Overview
	9:30 – 10:00 am	Install & Configure
	10:00 – 11:30 am	Oracle Parcel Service (OPS) Application Overview Spring Support in WLS
	11:30 – 12:30 pm	Coherence Use Cases & Overview
	12:30 – 01:30 pm	Lunch
	01:30 – 03:30 pm	Coherence Data Grid (Regular Data Caching)
	03:30 – 05:30 pm	TopLink Grid
Day 2	09:00 – 11:00 am	ActiveCache (Coherence*Web)
	11:00 – 12:00 pm	Buffer for Coherence workshop completion
	12:00 – 01:00 pm	Lunch
	01:00 – 03:00 pm	Active GridLink for RAC Overview & Technical Discussion
	03:00 – 03:15 pm	Break
	03:15 – 05:00 pm	Active GridLink hands-on Exercise
Day 3	09:00 – 10:15 am	Enterprise Manager Grid Control 11g Overview
	10:15 – 10:30 am	Break
	10:30 – 12:00 pm	WLS Management Challenges and Solutions Overview including demo
	12:00 – 01:00 pm	Lunch
	01:00 – 05:00 pm	WLS Management Hands-on Exercises

A Note About the Hands-On Labs

- For the Coherence and Active GridLink labs a VirtualBox image will be distributed to the room
 - The expectation is that you have ≥ 4 GB of RAM to run the virtual machine
 - If you have 2GB of RAM and/or a Celeron processor you may have challenges running the VM.
- The Enterprise Manager labs will be done using Amazon EC2
 - You do not need to run the VirtualBox image for these labs



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Oracle WebLogic Server – Differentiating Capabilities

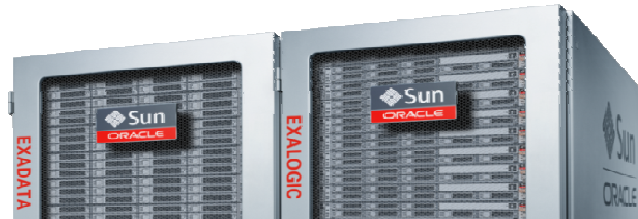
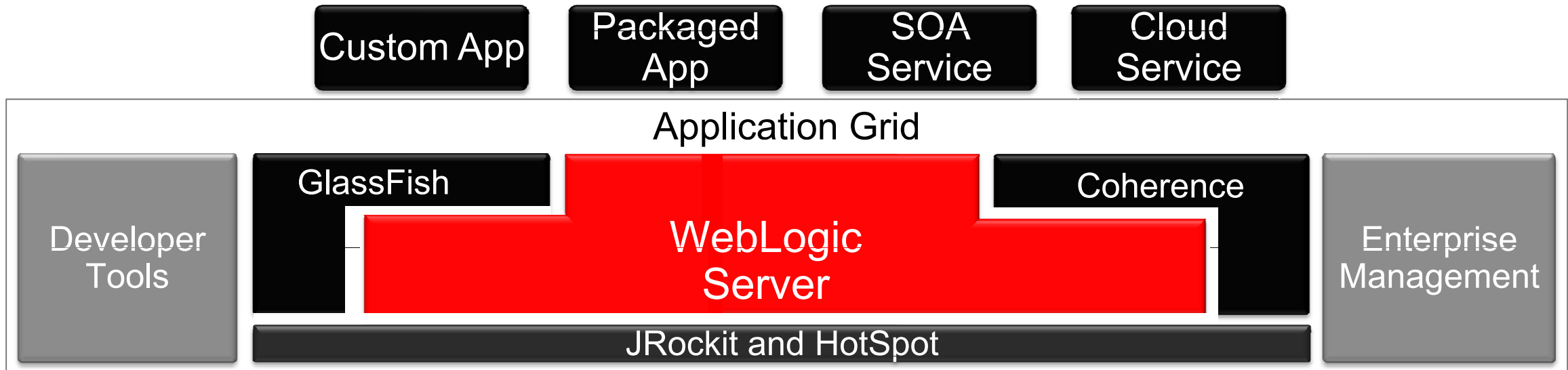
Oracle Fusion Middleware

Complete, Open, Integrated, Best in Class



Application Server Infrastructure at Oracle

Centered on WebLogic Server



Most complete platform for cloud

#1 in Performance AND time-to-market

Best integration with Oracle stack

Oracle Application Grid Leadership

Proven best-of-breed quality, hard won and harder to match



Java EE Server - WebLogic

- Market Share Leader with 44%
- SpecJ performance leader
- Highest performance RAC implementation
- Highest performing JMS implementation



Java VM – JRockit & Hotspot

- Fastest and widely adopted JVM
- Predictable Performance
- Industry's lowest latency



Data Grid - Coherence

- Unmatched Performance & Scalability
- 100+ node deployments
- On track to becoming de-facto standard



Distributed Management & Monitoring

- Complete management for WebLogic
- Lower risk
- Cost effective

#1
Application
Server

- ✓ #1 Market Share
- ✓ #1 Innovation
- ✓ #1 Performance
- ✓ #1 Growth

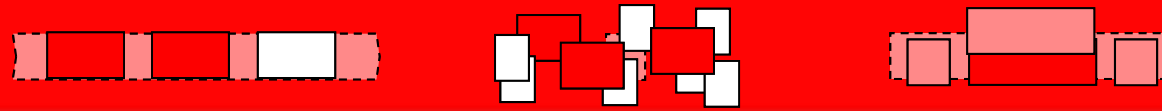
Oracle Fusion Middleware

ORACLE

Oracle WebLogic Suite

Strategic Platform Across Oracle Product Lines

Fusion Applications



Fusion Applications

Building on Fusion Middleware 11g

Applications Portfolio



Applications

Certified/Building with WebLogic

Fusion Middleware 11g



Fusion Middleware 11g

Certified and Differentiated on WebLogic Suite

WebLogic Suite 11g

WebLogic Suite 11g

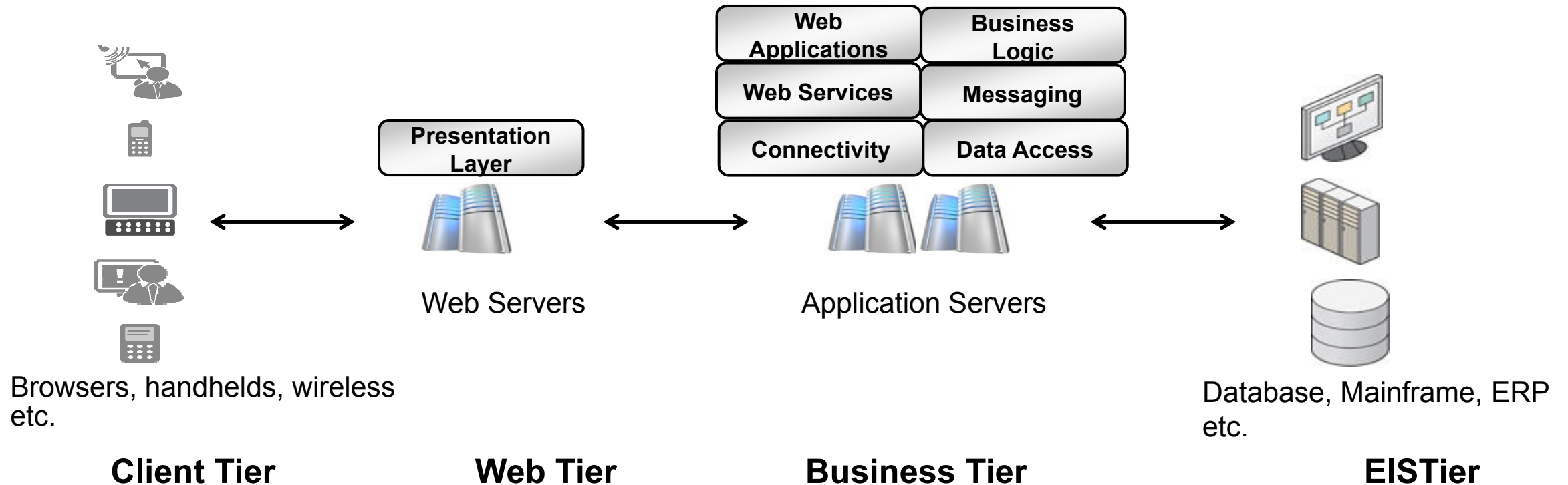
Application Foundation

WebLogic Workshop Focus



Where is an Application Server Used?

- In multi-tier architectures



What is WebLogic Server?

Load Management

- Web, component and messaging load balancer
- Integrated and tested with 3rd party LB products

HA Clustering

- Scalable session protection
- Automatic fail-over

Application Security

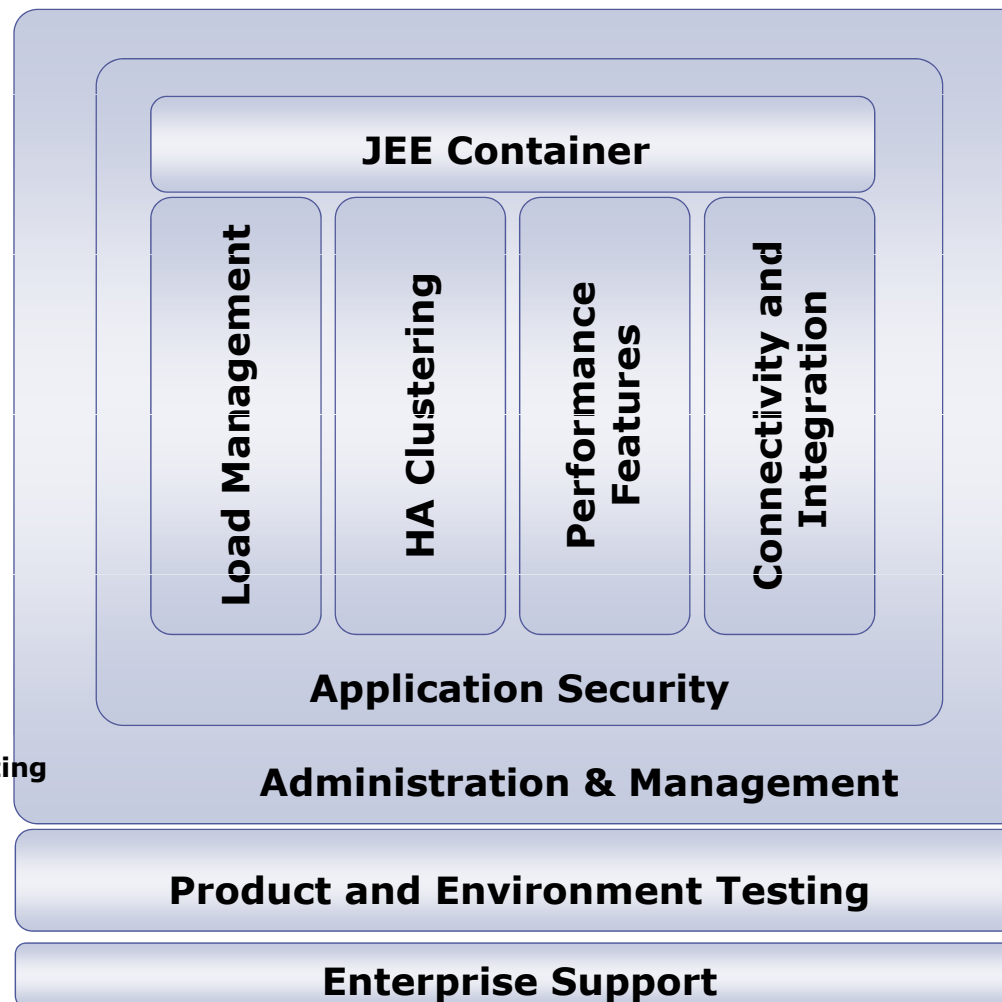
- End-to-end security solution
- Remove security from development
- Plugs into external security solutions

Product and Environment Testing

- Rigorous product testing
- HW, RDBMS, Web server environment testing
- Security alerts

Enterprise Support

- Consulting
- 24x7 Support
- Education



JEE Container

- Rapid implementation
- Tested for compliance
- Compete on quality of implementation

Performance Features

- Page, results and data caching
- Client and database connection pooling
- Proven performance leadership

Connectivity and Integration

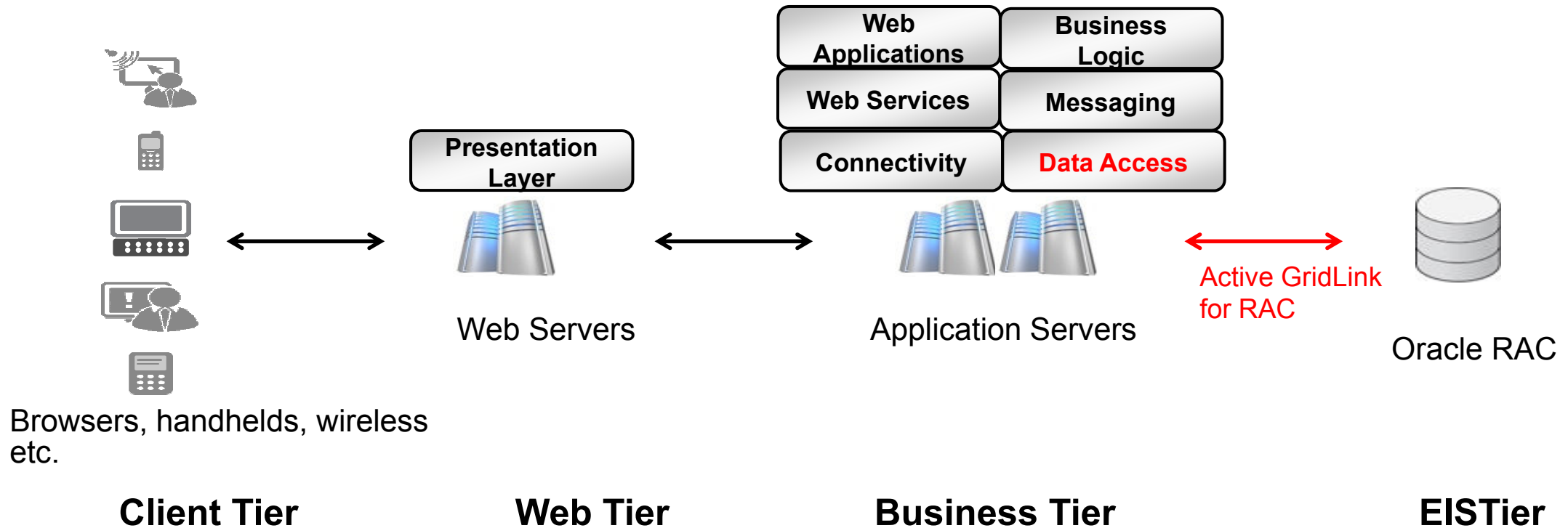
- Native Web services
- Native Messaging
- JDBC Drivers
- JCA, COM+, Tuxedo

OA&M

- Powerful configuration, deployment and monitoring
- Plugs into external management solutions

Higher Performance & Availability

Active GridLink for RAC

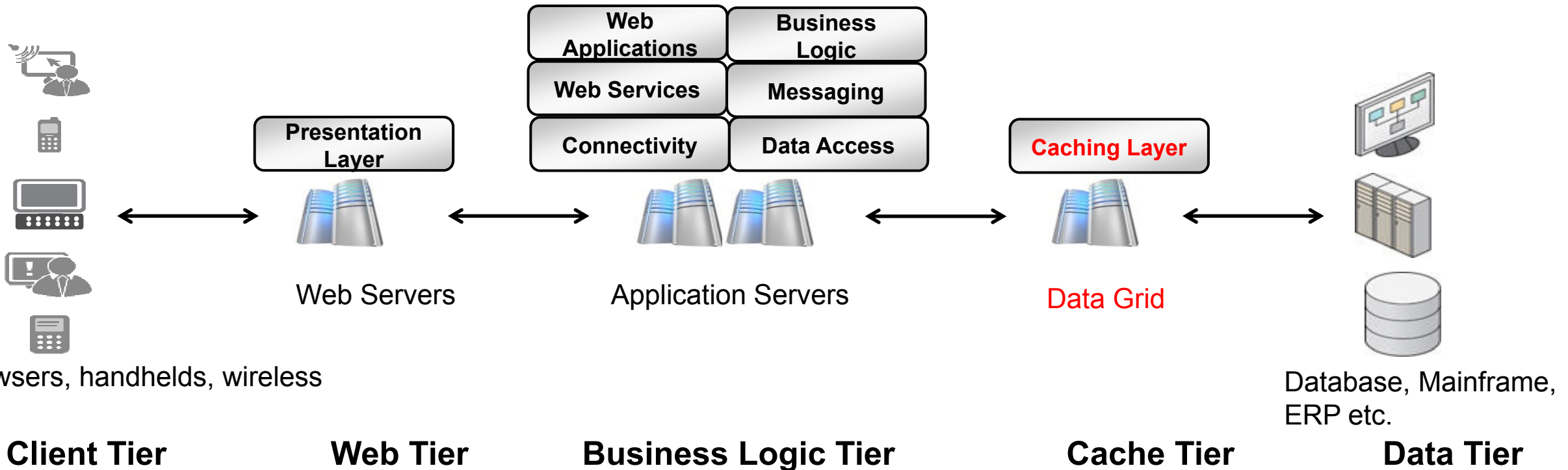


WebLogic Server Value Prop

- Reduce Operational Cost
 - Automation through built-in scripting
 - Simplified configuration through WebLogic console
 - Self-tuning container
 - Comprehensive diagnostic framework
- Maximum Availability
 - 5 9's availability
 - MAN/WAN session replication – active/active setup
- Superior Performance
 - #1 in performance across all systems and configurations
 - Prioritized work load management
- Unique Value Add Features
 - Active Grid Link for RAC
 - Enterprise grade messaging
 - ActiveCache

Data Demand Outpacing Data Supply?

- Introduce caching tier

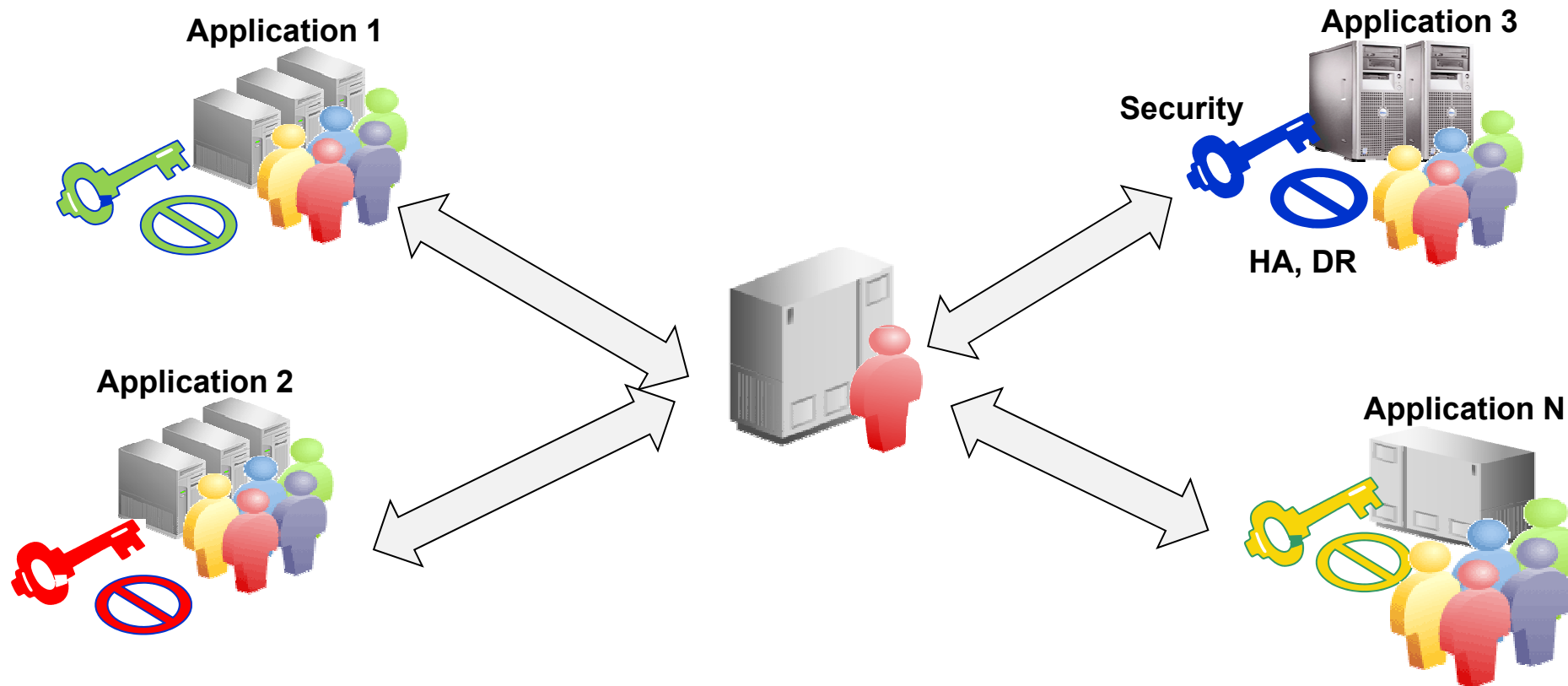


Coherence Value Prop

- Quality of service – reliability, availability, scalability, performance
 - Hundreds of nodes, Terra bytes of data storage
 - Dynamic data capacity including fault tolerance and load balancing for Availability
 - Scalability of data capacity and processing capacity
 - No single point of failure
- Scale as you grow
 - Dynamically scale-out applications
 - Align Java, .Net, and C++ applications with business needs
- Enable business continuity
 - Continuous data availability and reliability
 - Build cost-effective DR site, geo-distributed environment
- Reduce cost
 - Get up to 4x more App Server density out-of-the-box for Web applications
 - Offload backend systems (DB, Mainframes, ...)

Operations and Management Nightmare?

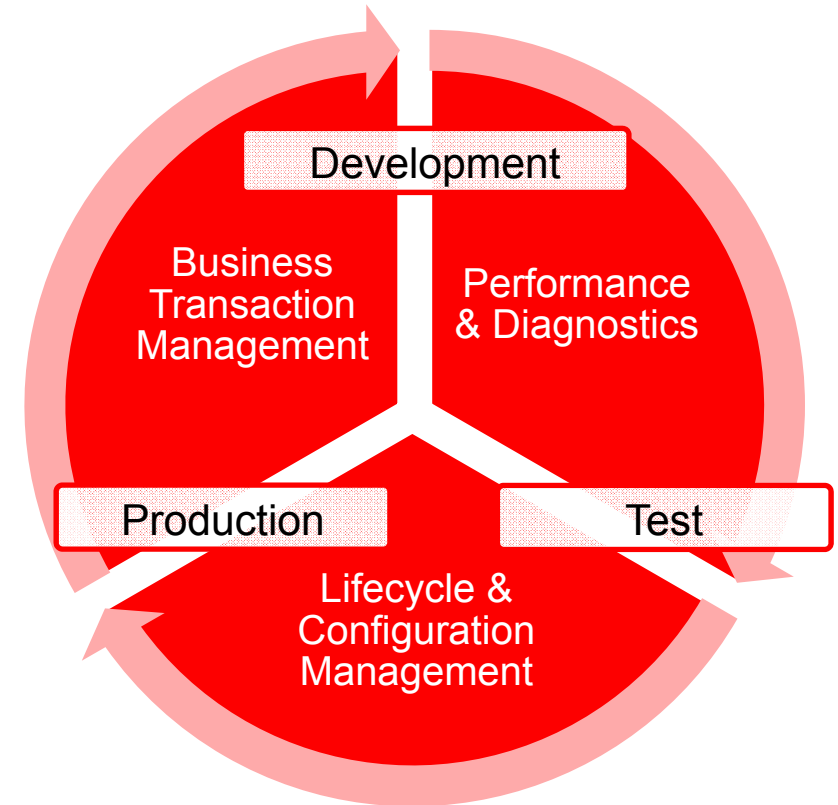
- Introduce WebLogic Server Management Pack EE



WebLogic Server Management Pack EE

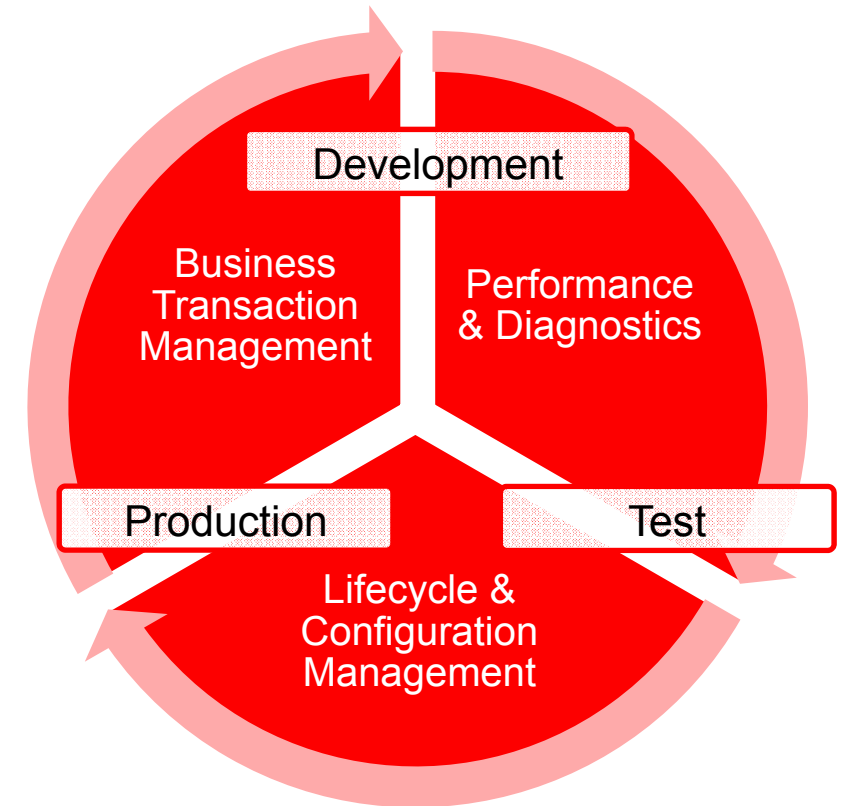
Complete management for all WebLogic Servers

- **Business Transaction Management**
 - Discovery of transaction flows across the enterprise
 - Leverages transaction content/payload for business visibility
 - Exception Management
- **Performance & Diagnostics**
 - Enterprise scale multi-domain and Coherence management
 - Improve performance and availability of Java EE and web service applications
 - Deep JVM Diagnostics with cross-tier database correlation
 - Service level management
- **Lifecycle & Configuration Management**
 - Manage configuration changes
 - Automated deployment procedures to clone/provision and scale-up applications



WebLogic Server Management Pack EE Value Prop

- Manage applications application performance
 - Improves performance and availability of enterprise Java
- Manage configuration changes in your WebLogic Servers across deployment lifecycle
 - Improves service by avoiding down time, reduces vulnerability by enforcing compliance
- Automates Operations
 - Reduces cost by automated deployment procedures to clone and scale up middleware and install and patch O/S



WebLogic Suite Value Prop

- **Lowest Operational Costs**
 - Exalogic for Java workload consolidation
 - Reduce server footprint
 - Automation of operations and administrations
 - Diagnose production issues with (almost) zero performance impact
- **#1 in Performance AND time-to-market**
 - 3-10xJava performance gain on Exalogic
 - Reduce platform deployment from weeks to hours
 - Scale-out on demand
- **Highest Quality of Service**
 - Higher availability/up-time of applications
 - End to end business transaction visibility
 - Millions of users, thousands of TPS

Application Server Packages

Oracle GlassFish Server

= GlassFish Server
+ **New** Java SE
+ TopLink

\$5K/Processor

WebLogic Server Standard Edition

= WebLogic Server (Full Java EE)
+ Web Tier
+ **New** Java SE
+ TopLink and ADF

\$10K/Processor

WebLogic Server Enterprise Edition

= WebLogic Server SE
+ **New** Java SE Advanced (w JRockit Mission Control)
+ Unlimited Clustering
+ Diagnostic Pack/AD4J
+ Virtual Assembly Builder

\$25K/Processor

WebLogic Suite

= WebLogic Server EE
+ **New** Java SE Suite (w JRockit Real Time)
+ Coherence EE
+ iAS EE (w Forms/Reports Discoverer/Portal)
+ **New** Active GridLink for RAC

\$45K/Processor