Integrate and Provide Secure Information

Presenter’s Name
Presenter’s Title
The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decision. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.
Agenda

- Leadership in Defense
- Innovative Capabilities to Integrate and Provide Secure Information
- Results Achieved by Oracle Customers
Did You Know?

- Over 100 U.S. Federal Government organizations run Oracle Applications
- 23 of the 26 NATO Countries run Oracle Applications
- 11 of the 20 largest Ministries of Defense worldwide run Oracle Applications
- 16 Latin American and Caribbean Country Governments run Oracle Applications
- 9 Asia Pacific Country Governments run Oracle Applications
The Challenges We’re Hearing

**Network Centric Operations**

“How can we enable collaboration and synchronization to enhance speed of command?”

"It is clear that the Alliance will only be able to achieve its operational ambitions if future force structures are well supported by flexible, adaptable, highly interconnected, communication networks and information systems. “

NATO NEC Feasibility Study

**Logistics Modernization**

“How can defense forces assure that supplies and equipment are available for deployment?”

“Knowing what warfighters on the battlefield need and being able to get them the necessary supplies as quickly and accurately as possible requires that member of the military logistics community share a common operating picture among themselves and with deployed troops.”

GCN Feb-5-2003

**Force Readiness**

“How can the personnel best suited for the mission be quickly deployed?”

“DoD must posture for and be responsive to any mission impact resulting from changes in national defense strategy. To manage the fluctuations in workforce requirements generated by changing contingencies efficiently and effectively.”

US DoD Memorandum on Personnel Reform
The Network Centric Operations Challenge

"How can we enable collaboration and synchronization to enhance speed of command?"

"It is clear that the Alliance will only be able to achieve its operational ambitions if future force structures are well supported by flexible, adaptable, highly interconnected, communication networks and information systems."

NATO NEC Feasibility Study

Business intelligence/decision support: As supply chain information and complexity increases, WS-DSCs (Weapons Systems – Defense Supply Chain) will find these capabilities indispensable to navigate to and access data sources, analyze them, and publish or communicate/collaborate using the results. Business intelligence software tools enable the storage, access and analysis of data in a data warehouse. This includes online analytical processing (OLAP) tools, executive information systems, query-and-reporting tools, multidimensional tools and decision support systems.

Gartner: 11 October 2006
Transforming Defense Supply Chains: Shifting National Priorities and Market Imperatives Prompt New Models for Weapons Systems Support
Agenda

- Leadership in Defense
- Innovative Capabilities to Integrate and Provide Secure Information
- Results Achieved by Oracle Customers
## Integrate and Provide Secure Information

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What **skill-sets and resources** are available for this mission?

How is **preventive maintenance** impacting **asset downtime**?

How effectively am I deploying **equipment** to support global operations?

What is my **current procurement spend** on maintenance services?

How well am I adhering to my budget this month?

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**Manage By...**

- **Objective:** Set institutional targets
- **Fact:** Provide performance-based metrics
- **Exception:** Continuously evaluate performance
Business Intelligence: Timely, Accurate, Relevant

- Daily updates on key performance indicators
- Actionable info on cost savings and incremental revenue opportunities
- Role-based views:
  - Maintenance
  - Logistics
  - Human Resources
  - Purchasing
  - Finance
Conduct Ad Hoc Queries and Analyses
Translate Detailed Data into Actionable Information

- **Self-Service Access for Users**
  - One click operations, wizards driven, drag and drop layouts, interactive dialogs
  - Eliminate IT bottleneck

- **Predefined and User Definable Calculations**

- **Dynamic Analysis**
  - Query nesting, pivoting, multi-level drill down

- **Broad Results Deployment**
  - Pre-integrated web portal & report builder
  - Simple export to XML, HTML, Excel, text files
  - Consistent look and feel
The NAFS system is a NATO-wide Financial and Procurement solution, which fully integrates budgeting, budget execution, travel, treasury, disbursing, procurement and supply functionality, with the ability to provide analytical and statistical capabilities, and to capture required audit data to meet the NATO security requirements.

SOLUTIONS
- Oracle General Ledger
- Oracle Accounts Payable & Receivable
- Oracle Purchasing
- Oracle iProcurement
- Oracle Daily Business Intelligence

CUSTOMER PERSPECTIVE
"NATO is looking ahead to the adoption of international public sector accounting standards (ISPSAS) and, in parallel, to modernizing its accounting practices and procedures. The implementation of the Oracle E-Business Suite provides NATO with the mechanism by which we can meet these goals and will enable the development of more meaningful and timely management information"

Mr. David Oakley, NATO Program Director

RESULTS
- Cost reductions resulting from enhanced supplier relationships may total more than $36 million
- Establish cost management and performance measurement capabilities at optimum level(s)
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Integrate and Provide Secure Information
Oracle Security Solutions
Share Secure Information Between Departments

User Management
- Directory Integration
- Strong Authentication

Access Control
- Controlling privileged users
- Custom security policies
- Row-level security

Core Platform Security

Monitoring
- Enterprise Audit
- Configuration

Data Protection
- Network Encryption
- Data Encryption
- Backup Encryption
Secure Information Access
Ensure Security through Multi-Level Access Control

1. User authenticates to middle tier

2. Middle tier proxies user identity to database

3. Database retrieves user roles

4. Database connects to application schema and grants access

Virtual Private Database

Application Server

Oracle Internet Directory
Security Solutions
Share Secure Information Between Departments

- Authenticate user and grant access based on pre-defined limits using Label Security
- Technology proven against 14 official security standards
Enforce Data Security at the Source
Protect Sensitive Data with Database Encryption

- Encrypt sensitive data at rest or across network
- Restrict access to sensitive data, even from privileged users
- Classification-based access so users see only data authorized to view
Meet U.S. DoD Requirements…
Create Value by Leveraging Standards

Standards Compliant

- FSIO\(^1\), NEDSS\(^2\), HIPAA\(^3\)
- Independent security validations:
  - Common Criteria (ISO 15408)
  - FIPS 140-1 Level 2
- NSTISSP\(^4\) Number 11
- ANSI SQL (FIPS 127-2)
- Java & J2EE support
- Object Management Group’s (OMG) Common Warehouse Metamodel (CWM)

Open, Interoperable, and Secure

- XML support
- HL7
- Web services
- Directory services (LDAP)
- Scalable, end-to-end security
- Platform independent & resilient

Reduce Risk, Lower Cost, Foster Current and Future Interoperability

1 - Financial System Integration Office
2 - National Electronic Disease Surveillance System
3 - Health Insurance Portability and Accountability Act
4 - National Security Telecommunications and Information Systems Security Policy
…with Industry Leading Technology

**ORACLE** FUSION MIDDLEWARE

- J2EE Application Server
- Development Tools
- Process Orchestration
- Business Intelligence
- Collaboration Tools
- Data Hubs
- Security / Identity Mgmt
- Enterprise Portal
- Web Services Mgmt

**ORACLE** DATABASE 10g

- Real Application Clusters
- Partitioning
- Advanced Security
- Data Mining
- Spatial Data
- OLAP
- Warehouse Builder
- Enterprise Management
- Secure Backup
U.K. Army Department Management Information System (ADMIS) Improves Readiness

OVERVIEW

- The role of ADMIS is to deliver decision support and management information capabilities for use at all appropriate command levels, in order to improve the Army's ability to produce its outputs within a defense environment.

CUSTOMER PERSPECTIVE

"The Oracle suite of products gives us the ability to deliver the ADMIS strategic vision as a truly workable reality. Oracle’s investment in Web technology makes it easy for us to take full advantage of the benefits it can offer us. Their expertise in defense development systems and the excellent support we receive contributes to the success of the ADMIS program."

Colonel Mike Manson, Program Manager, MoD

RESULTS

- Army-wide data warehouse and consistent framework for developing and delivering management information applications.
- Support collective training to achieve the required readiness states.

CHALLENGES/OPPORTUNITIES

SOLUTIONS

- Oracle Discoverer Desktop Edition
- Oracle Database Enterprise Edition
- Oracle Internet Developer Suite
- Oracle Express Analyzer
- Oracle Designer
- Oracle Forms Developer
- Oracle Support
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Identity Management
Ensure Secure Role-Based Communications Between Personnel

- Restrict access to applications based on security policy
- Enforce segregation of duties across heterogeneous systems
- Certify who has access to what via automated attestation
# Identity Management
Ensure Secure Role-Based Communications Between Personnel

## Access Control
- Authentication & Authorization
- Single Sign-On
- Federation
- Web Services Security

## Identity Administration
- Identity Lifecycle Administration
- Role & Membership Administration
- Provisioning & Reconciliation
- Compliance Automation

## Directory Services
- Virtualization
- Synchronization
- Storage

## Audit & Compliance
- Audit Data
- Attestation
- Segregation of Duties
- Controls

## Management
- Service Levels
- Configuration
- Performance
- Automation
Enforce Proper Change Management
Apply Key IT Control with Oracle Configuration Management

- Centrally collect configuration information and track changes
- Evaluate configurations against “best practice” policies
- Deploy certified configurations, patches, and images across all systems
Consolidate and Manage Audit Data
Provide Proof of Enforcement with Oracle Audit Vault

• Lock down audit data in an audit warehouse
• Monitor, report, and alert on all audit activity
• Detect suspicious activity and auto-escalate increased auditing
Oracle Governance, Risk, and Compliance

Processes
- Risk & Compliance Mgmt
- Controls Management
- Policy Mgmt
- Industry Specific

Applications
- Oracle
- SAP
- Custom
- Legacy
- Other

Infrastructure Services
- Content Mgmt
- Identity Mgmt
- Change Mgmt
- Data Security
- Data Audit
- Repository

Insight
- Risk & Control Intelligence
- Operational Intelligence
- Performance Management
Oracle Governance, Risk, and Compliance
Best-in-Class Infrastructure Automates Enforcement

- Ensure information reliability with content security, records retention, and identity management
- Protect information assets across the entire technology stack
- Enforce best-practice segregation of duties, configuration and change management procedures
Mphasis
Commercial Example

OVERVIEW

- Mphasis, now a part of the $20 billion EDS group, is a global IT and business process outsourcing (BPO) service provider. The company focuses on the financial services, healthcare, telecom, and high technology industries, providing application development, integration, and management, as well as BPO services

CHALLENGES/OPPORTUNITIES

- Maintain compliance with very stringent information security policies
- Ease customer concerns about opening their systems to various remote operation teams
- Track employee entitlements across a large number of IT systems to eliminate reputation risk
- Reduce the high cost of managing manual user accounts and credentials in a dynamic environment

SOLUTIONS

- Identity management

CUSTOMER PERSPECTIVE

“The implementation of Oracle Identity Management has enabled us to efficiently and dependably manage user identities across key systems. Mphasis is committed to being an industry leader in ensuring the security of our client’s assets and Oracle Identity Management is critical for achieving this goal.”

Mitish Chitnavis, Group Information Security Officer, Mphasis

RESULTS

- Reduced lead time required for request-to-fulfillment of logical/physical access from 5 days to 15 minutes and streamlined reporting processes to ease regulatory compliance
- Allowed Mphasis to more easily integrate its systems with new and existing partners in a secure environment
Summary

- **Business Intelligence Suite**
  - Most comprehensive portfolio of BI products to enable Information Superiority

- **Data Hubs, Fusion Middleware, Security Solutions**
  - Market leading security solutions as part of a complete database, middleware and applications environment

- **Identity Management**
  - #1 in Identity Management
The Only *Complete* Defense Solution
Oracle Solution Footprint for Defense
Integrate and Provide Secure Information for Network Centric Operations

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<th>Force Support</th>
<th>MoD / DoD Administration</th>
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<td>Infrastructure</td>
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<td>Service Oriented Architecture / Integration Framework</td>
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<td>Technology (e.g. Database, Application Server, RAC, Oblix, Times Ten)</td>
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Market-Leading Middleware Platform

Best-Selling
- 32,000+ Customers Deployed
- 70% of World’s 50 Largest Firms
- $1B+ Business

Highest Rated
Only vendor in Gartner and Forrester leader quadrants for all Middleware components.

Most Comprehensive

User Experience
Business Intelligence
Financials
HCM
SCM
CRM
Industry Apps
Composite Apps
Tools
Security
Workflow
Systems Management
Grid Infrastructure
Application Server

FASTEST GROWING MIDDLEWARE

GOVERNMENT

2005 Growth Rates


SOA Vendor of Choice

Oracle

Source: Forrester Research ranking of Application Platform Servers, April 2005
Oracle’s People Advantage

- 30,000 applications customers
- 30,000 middleware customers
- 220,000 database customers
- 1700 application ISVs
- 5000 middleware ISVs
- 9000 database ISVs
- 35 Fusion strategy council members
- 29,000 developers, support engineers and consultants
- 1300 participants in early customer adoption programs
- 950 customers participating in Customer Advisory Boards
- 500 Industry & Product strategy council members
- 425 user groups

275,000 customers benefiting from shared innovation

34,950 customers participating in Customer Advisory Boards

127,000 database customers

29,000 developers, support engineers and consultants

30,000 applications customers

30,000 middleware customers

220,000 database customers

1700 application ISVs

5000 middleware ISVs

9000 database ISVs
Agenda

- Leadership in Defense
- Innovative Capabilities to Integrate and Provide Secure Information
- Results Achieved by Oracle Customers
What Customers are Achieving…

Due to the sensitive nature of the subject no detailed information can be given and these are some of the companies using Oracle security solutions.
Defense Quotes

**Gartner**

“Oracle HRMS] is appropriate for large, multinational customers that leverage Oracle RDBMS and want strong, core HRMS, self-service and strategic HR functionality... Rating: ‘Strong Positive’.”

**IDC**

“Oracle COREid Federation is an identity federation server that provides cross-domain single sign-on and helps industry and public institutions to securely link their partners into their portals or extranets”

**Forrester**

“Oracle’s strong middleware platform and greater support of standards make it a better choice than SAP for customers who will rely on custom development as well as packaged apps.”

**IDC**

“Oracle’s acquisitions of PeopleSoft and Siebel give it a more significant footprint in business intelligence (BI), analytic applications, and performance management.”
The Oracle Difference

Only Oracle…

• Has the most comprehensive portfolio of business intelligence products to enable information superiority

• Has the market leading security solutions as part of a complete database, middleware and applications environment

• Is #1 in identity management

• Is the market leader in the public sector, and public sector is oracle’s largest customer base