

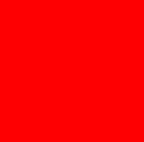


**ORACLE®**

**Bridgestream™**

**Oracle Buys Enterprise Role Management Leader Bridgestream  
Strengthens the Industry's Most Comprehensive and  
Feature-Rich Identity Management Solution**

September 5, 2007



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 a purchasing decision. The development, release and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

# What Customers Have Told Us

- Role-based access control is a significant issue
  - Role abstraction drives “who should have what” & “who can do what”
- Challenges faced are:
  - How to model roles – simple static hierarchies are not flexible enough
  - How to define roles – too many users, applications and privileges
  - How to enforce roles – organization is constantly changing
- A solution is needed that can:
  - Model enterprise complexity accurately and quickly
  - Manage roles across enterprise: HR, business and IT roles
  - Integrate effectively with identity management (IdM) and business applications

# What We Are Announcing

- Oracle has acquired Bridgestream, Inc.
  - Leading provider of enterprise role management solutions
  - Diverse Fortune 500 customers across multiple industries
  - Headquarters in San Francisco, California
- SmartRoles and Discoverer are expected to be part of Oracle Identity Management
  - Provides scalable role mining and management capabilities
    - Role definition, administration and enforcement
  - Enables role management for the fastest growing IdM suite
  - Powers the business role infrastructure for Fusion Applications

# Why Bridgestream

- Comprehensive role management solutions
  - Discovery and administration
- Relationship-based technology
  - Highly flexible and extensible
  - Supports hierarchical, relationship, ad hoc and context-based roles
- Robust J2EE-based technology
  - Easy to use, integrate and manage
  - “Hot Pluggable” with leading IdM solutions
    - Oracle, IBM, Novell and Sun
- Strong team
  - Track record of delivering visionary solutions
  - Will join existing Oracle IdM functional team

# Strategic Importance

## Oracle + Bridgestream

- Bridgestream is expected to extend Oracle's IdM & security solutions
  - Role-based access control, admin, workflow & provisioning
    - Integrated enforcement via provisioning
  - Rich identity repository for enterprise roles and relationships
- Bridgestream is expected to enable Oracle business applications
  - Flexible role model for HR, ERP and vertical applications
- Bridgestream is planned to be core to Oracle Governance, Risk & Compliance solutions
  - Enterprise-wide segregation of duties
  - Scalable controls based on enterprise roles

# Bridgestream Discoverer

## Key Capabilities

- Role mining
  - Identifies entitlement patterns in existing applications
  - Recommends hierarchical role model
  - Converts discovered roles to managed roles
- Rule mining
  - Identifies user membership patterns in existing applications
  - Recommends automated role membership rules
- Configurable statistical mining parameters
- Easy-to-use user interface



**Applications**

**Accounts,  
Attributes,  
Entitlements**



**Mining Engine**

**Recommended  
Roles  
& Rules**

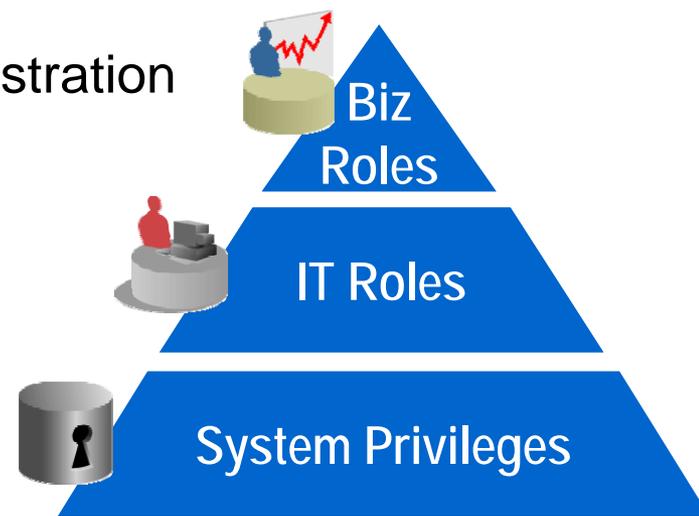


**Role Administration**

# Bridgestream SmartRoles

## Key Capabilities

- Centralized enterprise role management
  - Models complex, inter-related business relationships
  - Manages role policies across business and IT applications
  - Calculates roles based on business events and context
  - Enforces segregation of duties for compliance
- Ease of use for business users
  - Flexible and graphical delegated administration
  - Roles that business users understand
- Service-oriented architecture
  - Role and membership services for IdM and business applications



# Bridgestream Differentiators

- Support for intertwined relationships (polyarchies)
  - Organization and role models mirror complex business operations
    - Supports hierarchy, team/group, network and other models
  - Intuitive views for business or IT users
- Temporal foundation for time-based analysis and planning
  - All objects (people, organizations, relationships, roles, rules, etc.) have a time dimension
  - Supports forensic audit: Who has what? When? How?
  - Enables scenario planning and analysis
- Comprehensive role and rule discovery
  - Discovery of IT role hierarchy for enhanced role reduction
  - Rule discovery with impact analysis

# Customer and Partner Expected Benefits

- **Bridgestream customer expected benefits**
  - Greater investment in product development
  - Global reach and 24x7 support and services capabilities
  - Integration to leading IdM and business applications
- **Oracle customer expected benefits**
  - Advanced role management solution tightly integrated with Oracle security and business application investments
  - More scalable business automation using roles
  - Improved security to achieve both IT and business compliance
  - Continued support for heterogeneous environments
- **Oracle and Bridgestream partner expected benefits**
  - ISVs: leverage powerful role management technologies
  - SIs: provide new solutions for existing IdM and ERP practices
  - VARs: expand value-added solutions

# Oracle's Identity Management Strategy

- Comprehensive solution
  - Integrated suite of best-of-breed components
  - Each component individually deployable
- “Application centric”
  - Integrated with business applications – HR, CRM, ...
  - Part of FMW platform: development → deployment → operation
- Hot-pluggable
  - Standards-based
  - Works across leading applications, web servers, application servers, portals, databases and other IT systems

# Evolution of Oracle IAM Suite

## Access Control

Strong Authentication & Authorization

Risk Based Access Control

Single Sign-On

Federation

Web Services Security

## Identity Administration

Identity & **Organization** Lifecycle Administration

**Enterprise Role Mgmt**

Provisioning & Reconciliation

Compliance Automation

## Directory Services

Virtualization

Synchronization

Storage

## Audit & Compliance

Audit Data

Attestation

Fraud Detection

**Segregation of Duties**

Controls

## Management

Service Levels

Configuration

Performance

Automation

# Bell Helicopter Case Study



<b>Business Challenges:</b>	<ul style="list-style-type: none"><li>• Difficult to provide timely and appropriate access to systems in a complex corporate landscape of cross functional project teams</li><li>• Numerous security holes and other access errors caused by chance granting of access (not by rule)</li></ul>
<b>Solution:</b>	<ul style="list-style-type: none"><li>• Use Discoverer with top-down and bottom-up approaches for role engineering</li><li>• Establish a role governance structure and process</li><li>• Implement role automation using SmartRoles</li></ul>
<b>Expected Business Results:</b>	<ul style="list-style-type: none"><li>• Improve business efficiency by providing users quick and accurate access</li><li>• Improve customer satisfaction with faster response times and greater accuracy</li><li>• Simplify and strengthen compliance through automation</li></ul>

# Fortune 25 Investment Bank Case Study

<b>Business Challenges:</b>	<ul style="list-style-type: none"><li>• User provisioning requires manual processes that lead to inaccuracy and security exposure</li><li>• Provisioning attributes are manually determined for 40,000+ users and 2,000+ applications and systems</li><li>• Source data resides in multiple systems and must be combined and analyzed</li></ul>
<b>Solution:</b>	<ul style="list-style-type: none"><li>• Establish an authoritative system of people and their relationships to organizational hierarchies<ul style="list-style-type: none"><li>• Integrate with source systems for auto update</li><li>• Use inheritance to make administration easy and prevent inconsistent assignments</li><li>• Calculate provisioning details for employees based on their location in multiple hierarchies</li></ul></li><li>• Integrate with Oracle Identity Manager</li></ul>
<b>Expected Business Results:</b>	<ul style="list-style-type: none"><li>• Establish who-has-what reporting capability across infrastructure targets</li><li>• Reduce security risks via immediate removal of user access from core IT resources</li><li>• Ensure individual, organization and role data accuracy to enable business process automation</li><li>• Reduce IT operations costs by automating assignment of user access rights</li></ul>

# Fortune Global 100 Bank Case Study

<b>Business Challenges:</b>	<ul style="list-style-type: none"><li>• Timely and cost effective implementation of user provisioning</li><li>• Large number of users (120,000+) with poor role data quality</li><li>• Lack of tools and processes to manage roles and associated memberships</li></ul>
<b>Solution:</b>	<ul style="list-style-type: none"><li>• Capture organizational relationships to enable automation and distributed administration</li><li>• Add job-driven, position-driven, team-driven and scoped roles to the role model</li><li>• Implement workflow for role lifecycle management</li></ul>
<b>Expected Business Results:</b>	<ul style="list-style-type: none"><li>• Increase effectiveness and accuracy by enabling business units to manage role grants without compromising security policies</li><li>• Dramatic improvement in accuracy via automation and workflow: 100% reduction of unauthorized privileges, 90% reduction in exceptions and 90% reduction in roles and groups</li></ul>

# Safeway Case Study



<b>Business Challenges:</b>	<ul style="list-style-type: none"><li>• Complex access and business approval process with limited visibility to organization accountability</li><li>• High personnel turnover driven by seasonal work and routine changes in staff responsibilities</li><li>• Meeting SOX, GLB, HIPPA and other state and federal regulatory requirements – ability to attest and conduct forensic audit</li></ul>
<b>Oracle Solution:</b>	<ul style="list-style-type: none"><li>• Consolidate groups and roles into manageable IT roles and identify business rules for automation</li><li>• Establish a central repository for business and IT roles, memberships, relationships and “accountability trees” to enable automation of workflows and other applications</li><li>• Integrate with IdM system to enable dynamic user provisioning and maintain a detailed audit trail</li></ul>
<b>Expected Business Results:</b>	<ul style="list-style-type: none"><li>• Improve visibility and control of business processes by automating approval workflows and ensuring organization accountability</li><li>• Support compliance needs by defining and tracking company policies for system and application authorization</li><li>• Reduce IT costs by automating approval processes and simplifying role administration and user provisioning</li></ul>

# Summary

- Enterprise Role Management is crucial to scalable security administration and business process automation
- Bridgestream's products expected to become part of Oracle's leading IdM suite of products
  - Standalone role discovery, administration & enforcement solution
  - Integrated solution across ERP, IdM and DB
  - Increased investment in product innovation and ongoing support
- Oracle's acquisition of Bridgestream is expected to deliver integration between security and business process controls
  - Enables advanced role management and access control
  - Enables unified role context across software stack

More information can be found at: [www.oracle.com/bridgestream](http://www.oracle.com/bridgestream)



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