Sun Infrastructure Solution for Network Identity

Seamlessly extend secure access to your enterprise fast, with reduced deployment time and cost

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Agenda

- The value of network identity
- Solving business problems with network identity
- Sun™ Infrastructure Solution for Network Identity
- Examples and Business Scenarios
- Why Sun is the right choice
Identity Management is More Than Web Single Sign-On

Identity is at the core of your business, affecting how you securely interact and build trusted relationships with your customers, partners, suppliers, and employees.

A set of business processes, technologies, and operational infrastructure for managing the lifecycle of an identity and its relationship to business applications and services.
What is an Identity?

• An identity might be an employee, customer, partner, or supplier, but it might also be a package or a product!

• Identities have lifecycles, and business rules governing their creation and deletion are important to your security.

• Business applications are not uniformly accessed by all identities, and role-based access helps keep your business-critical data secure.

Sun Infrastructure Solution for *Network Identity is the fusion of identity management, security, authentication, authorization, access, and provisioning, all inside of a policy-based framework.*
Implementing a network identity solution can benefit your business by:

- Radically reducing cost by improving operational efficiencies with self service, delegated administration, identity consolidation and automated provisioning
- Greatly improve user experience and productivity with single sign-on and self service
- Vastly increase revenue opportunities through affinity, loyalty and partnership programs using federated services
- Significantly lower business risk by improved privacy and regulatory compliance through access management and Liberty Alliance architecture
Which of These Questions Keep You Awake at Night?

**Business Development Manager**
- How do I implement a “friends and family” plan to increase revenues?
- How do I efficiently integrate new partners and suppliers into my business processes?

**HR Director**
- How do I manage the *soft* supply chain that includes life, dental, health, disability, retirement, and flexible spending plans?

**Mergers & Acquisitions VP**
- How do I avoid creating identity silos when companies are acquired?

**IT Director**
- How do I reliably set up accounts for new employees and make sure they are closed immediately upon termination?
- How do I support mobile employees at drop-in centers, home offices, or on wireless devices?
Do You Know...

• How many passwords do your users have?
  – The average is 21! Half write them down, and 2/3 rarely or never change them (Source: 2002 NTIA Monitor Password Survey, UK; zdnet.com)

• How much time do your administrators spend re-setting passwords?
  – 45% of help desk calls are for re-setting passwords, and the cost ranges from $51 to $147 for non-automated environments (Source: Meta Group, 2002; Gartner, 2002, respectively)

• How many ex-employees and contractors have access to your systems?
  – An average of 20 percent, perhaps because the typical IT organization has 10 different systems maintaining identity information with no synchronization (Source: Gartner, 2003; Sun customer survey 2002)

These issues not only reduce your competitiveness -- they put you at risk!
Why Does the Problem Need Attention?

"Effective management of users' identity, credential, and access rights must be implemented by organizations, not as a differentiator but as mandatory security consideration, a business imperative and a non-negotiable user expectation"

(Source: Meta Group, 2002)

"Through 2004, 70 percent of extranet access management deployments will be tied to reducing operational costs, which will place a premium on pre-integrated solutions, short payback periods ... .7 probability).”

(Source: Gartner, 2003)
Network Identity Helps You Fix Common Business Problems

Network identity addresses common points of pain across all of the groups that companies interact with.

- Customers
- Suppliers
- Partners
- Employees

Productivity  Competing Needs  Administration Costs  Security, Privacy, Policy  Interoperability

Each line in this figure corresponds to a cell in a table.
Dynamic Portal Service Delivery

View & Features Varies by Individual User and Group

Limited Features

View & Features Varies by Type of Connection

Full Feature Trusted with Token

Web Top Browser Client Portal

COMMUNITY

Services

Application Server

Communications / Messaging

Operating Environment

Portal Server

Directory

Service

Service

Service

Service

Legacy ERP

Legacy ERP

Data

Applications

Reports

Transactions

XML

UDDI Business Registry

JAXR

SOAP

UBR

Sun Servers & Storage

Sun Servers & Storage

Content Management, KM, DM, Channels

Content Management, KM, DM, Channels
Network Identity Enabled Access

Full Feature Trusted with Token

Web Top Browser Client Portal

View & Features Varies by Individual User and Group

View & Features Varies by Type of Connection

Content Management, KM, DM, Channels

Limited Features

XML UDDI Business Registry

JAXR SOAP UBR

Portal Server Directory

Service Service Service Service

Application Server

Communications / Messaging

Operating Environment

Legacy ERP

Sun Servers & Storage

Sun Servers & Storage

Data Applications Reports Transactions
Sun's Strategic Approach

1) Assess network identity requirements and create a strategy
2) Implement a pre-integrated solution
3) Use qualified Sun strategic partners to add secure role-based applications
4) Use Sun's experienced consultants to integrate value-added services
5) Expand interoperability and federated services through Liberty Alliance standards
The Sun Infrastructure Solution for Network Identity

- Reduces cost and complexity by integrating and testing innovative products
- Includes hardware, software, storage, and services – all for one low price
- Uses qualified partners
- Works out-of-the-box
- Integrates with existing IT infrastructure, including legacy systems
- Uses repeatable methodologies and reference architectures to reduce time-to-market
- Provides comprehensive support and services
# Solution Features and Benefits

<table>
<thead>
<tr>
<th>Feature</th>
<th>Benefit</th>
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<tbody>
<tr>
<td>Manage and secure access to network applications and services, enabling mobility and device independence</td>
<td>Reduces administration costs while increasing security and mobility</td>
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<td>Synchronize diverse identity-related data sources</td>
<td>Reduces risk inherent with multiple logins and identity credentials</td>
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<td>Integrate identity management into company workflows and policies</td>
<td>Automating manual procedures increases productivity, reduces cost, and is less error-prone</td>
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<td>Improve employee, partner, and customer experience through Web single sign-on</td>
<td>Increases productivity and enables innovative marketing programs to increase revenue</td>
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<td>Delegating administrative authority – including self-provisioning</td>
<td>Increases process efficiencies and reduces costs, including call-center overhead</td>
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<td>Federated services through Liberty Alliance architecture</td>
<td>Creates new revenue-generating and marketing opportunities</td>
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<tr>
<td>Facilitate regulatory compliance</td>
<td>Improves privacy and demonstrates implementation of government regulations</td>
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Sun Infrastructure Solution for Network Identity — Architecture

- Integrating into enterprise business processes requires additional components and services.
- The combination of people, policy, and technology is the solution!
Sun Infrastructure Solution for Network Identity – Software

- **Sun™ ONE Identity Server**
  - Central Access Management, authentication, Web SSO, federation, self-service, delegated authority

- **Sun ONE Directory Server**
  - Stores identity profiles
  - Massive scalability
  - Multi-platform

- **Sun One Meta-Directory**
  - Consolidates & synchronizes identity information
  - Works with Microsoft Active Directory
Network Identity Services (I)

- Directory Services
  - The scalable, high speed data repository foundation for Identity Management
  - Sun ONE Directory Server, Sun ONE Meta Directory, and Sun ONE Identity Synchronization for Windows

- New Capabilities:
  - Performance, Scalability, High Availability
    - 64-bit addressing and linear scalability up to 12 CPUs enables data center consolidation
    - 4-way multi-master replication enables high availability, reliability and disaster mgmt initiatives
  - Security and Managability
    - Attribute encryption, fractional replication, multiple password policies helps address government regulatory compliance, privacy issues
    - Multi-protocol front end design - LDAP, DSML, futures - reduces TCO
Network Identity Services (II)

- **Identity Services**
  - Managing a user's account lifecycle, application access, web single sign on and federation, via centralized, delegated and self-service administration.

- **Sun ONE Identity Server**

- **New Features:**
  - **Platform Support:**
    - Sun ONE App Server, BEA WebLogic, IBM WebSphere
    - Solaris x86 support
  - **Liberty 1.1**
  - **Additional Authentication Types**
  - Filtered roles support for user management
  - **Password reset/Forgotten password**
Identity Services -- Did you Know?

Sun ONE Directory Server

- Outperforms the leading competitor by up to 10X
- Is the first 64-bit LDAP server on Solaris and HP-UX
- Is the first LDAP product to provide Class of Service for managing large scale deployments
- Powers 8 of the top 10 financial services companies in the US (Fortune 2002)
- Has over 1,500 installed base customers and 2B entries sold worldwide
Identity Services – Did you Know?

Sun ONE Identity Server is

- First commercially available Identity Management product to support both Liberty v 1.1 and SAML 1.0
- Delivers Broadest application security support ever from Sun with over 75 agents available across different web servers, app servers, and operating systems
- First Identity Management product to support Solaris x86
- Provides full standard support for
  - SAML, Liberty, JAAS, LDAP, SOAP, XML
- Provides cost reductions for both human and system resources – self service, password reset
- Supports heterogeneous legacy environments allowing for integration with wide range of application solutions
Sun Infrastructure Solution for Network Identity – Services

- Sun's solution is different because of the accelerated methodology it practices for implementing network identity solutions
- The Sun Services organization has tools to help you at every step along the way:
  - Assessment
  - Strategy and Planning
  - Architecture and Design
  - Implementation
  - Legacy Systems Integration and Migration

*Rapid deployment possible because Sun has already integrated and tested the solution*
Extend Your Network Identity Solution with Sun-Qualified Partners

- Passlogix for enterprise single sign-on
- PeopleSoft, Siebel for workflow management
- Thor, WaveSet for identity provisioning
- ActivCard, Schlumberger for Java Card™ platform-based identity credentials
- Entrust, RSA, and Verisign for Public-Key Infrastructure (PKI) software
Benefits Summary

• Increase revenue by knowing who you do business with and leveraging your improved relationship with your customers

• Radically reduce costs by improving operational efficiencies

• Reduce the chance for errors that cause lapses in security by automating manual procedures

• Significantly lower business risk by improved privacy, security, and regulatory compliance
Business Scenarios

- **Account provisioning**
  - Adding a new employee using an automated workflow

- **Secure supply chain management**
  - Delegating administration and enforcing role-based access

- **Managing a mobile workforce**
  - Using a single identity credential for building access, application access, and secure remote access

*View full demonstrations of these topics and more at the Sun iForce center nearest you*
Account Provisioning

① Manager uses delegated authority to add new employee via portal

② Automated workflow creates HR request for approval by HR department

③ New employee number created in identity system

④ E-mail accounts automatically created

⑤ Role-based access enabled for ERP systems

⑥ Process completion notification and temporary password sent to manager

Automated workflow, single sign-on, delegated authority
Account Provisioning – Features

- Automatic account creation
- Identity synchronization across multiple systems
- Delegated administration
- Policy and role-based access
- Single sign-on across company applications
- User awareness in HR system
- Audit Trail
U.S. Army Accessions Command

Problem:
- Enhance services delivered to disparate customer base

Solution:
- GoArmy.com portal provides access to key information for command personnel as well as potential recruits

Benefits:
- Provides secure access to internal information through Internet, intranet, and extranet technologies
- Customized, role-based access to resources enabled using an identity-based solution
- External, Internet-facing portal provides information to potential recruits

Sun ONE Products:
- Sun ONE Identity Server
- Sun ONE Portal Server
- Sun ONE Directory Server
- Sun ONE Web Server
Secure Supply Chain Management

1. Employee is promoted from order to inventory management and needs access to partner company's inventory control systems.

2. Manager accesses partner company's portal and uses delegated authority to change promoted employee's role.

3. Access to order entry system at partner company is revoked.

4. Access to inventory control system at partner company established.

5. Promoted employee now can perform job functions without incurring expenses at partner company.

Delegated authority, role-based policy enforcement, secure remote access.
Supply Chain Management Features

- Determines who has access to what resources
- Delegated administration
- Role-based policy enforcement
- Automated account creation and deletion
- Single sign-on functionality
- Secure remote access
Managing a Mobile Workforce

① On the way to the office, employee checks calendar through wireless portal to verify first appointment

② Employee arrives at the office and uses Java Card platform-based identity card for building access

③ Employee inserts identity card into Sun Ray™ workstation to recover session state exactly as it was left yesterday

④ At home, employee uses identity card to establish secure remote access to company portal and reads e-mail

Single ID credential, secure multi-modal authentication, secure remote access
Managing a Mobile Workforce

Features

- Single identity card used in multiple contexts
- Foundation for a mobile infrastructure
- Secure remote access
- Unified authentication via central identity server to any device
Motorola Communication Services and Equipment

Problem:
- Consolidate enterprise directory infrastructure

Solution:
- Sun ONE Directory Server and Directory Proxy Server provide scalable, highly available directory services

Benefits:
- Provides a carrier class service scalable to millions of users for delivering secure and personalized content
- Centralized directory service streamlines administration processes and costs
- Provides a common developer framework for more efficient delivery of applications

Sun ONE Products:
- Sun ONE Directory Server
- Sun ONE Directory Proxy Server
Why Sun?

- Strategic approach to network identity that incorporates the interaction between people, policy, and technology
- Identity is managed by integrating innovative, open-standards-based products
- Sun's experienced consultants exercise a repeatable methodology
- Pre-configured, pre-integrated, pre-tested solution that you can trust and buy today for one low price
- Best-of-breed components from partners integrated to customize the solution for your enterprise
- Protects your investment, avoiding “rip and replace” implementations
Next Steps...

- View complete demonstrations of the examples we've discussed
- Learn how the solution can integrate in your environment and address identity issues at your company
- Get started by using Sun's capability assessment tool
- Use Sun's expertise to build a proof-of-concept
Sun Infrastructure Solution for Network Identity

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sun.com/solutions/infrastructure/ni