

Identity Management: The Next Critical Step on the Internet

Brian Breton
Sr. Product Marketing Manager

Authentication

Access Management

Encryption

What is Identity?

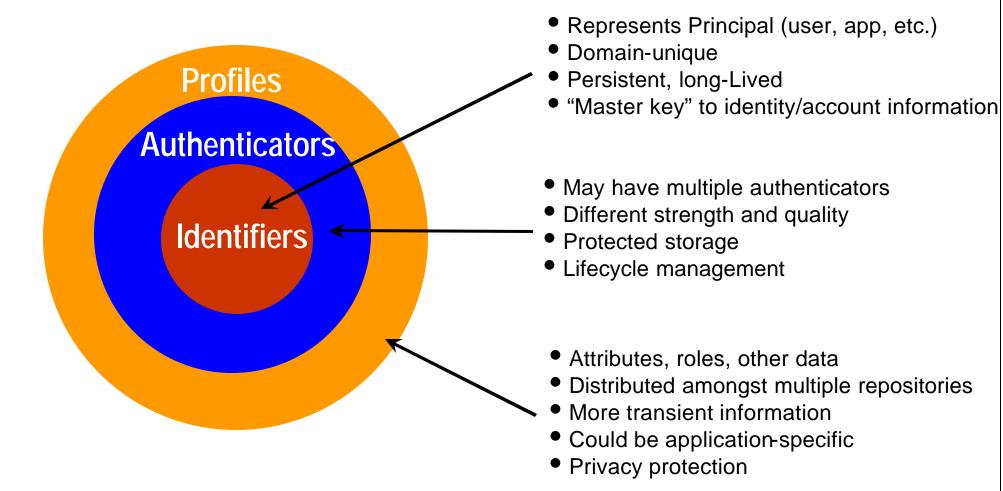


A user has many forms of identification, stored in various forms and places.



Composition of Identity

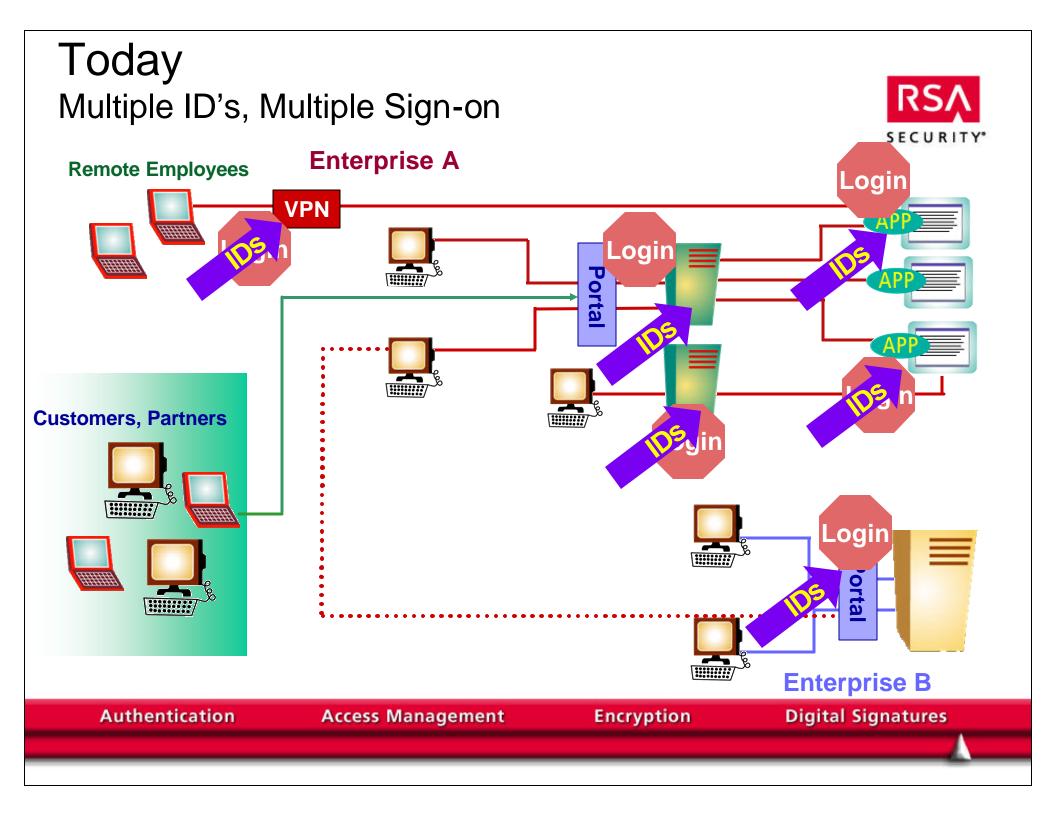




Problem with Online Identity



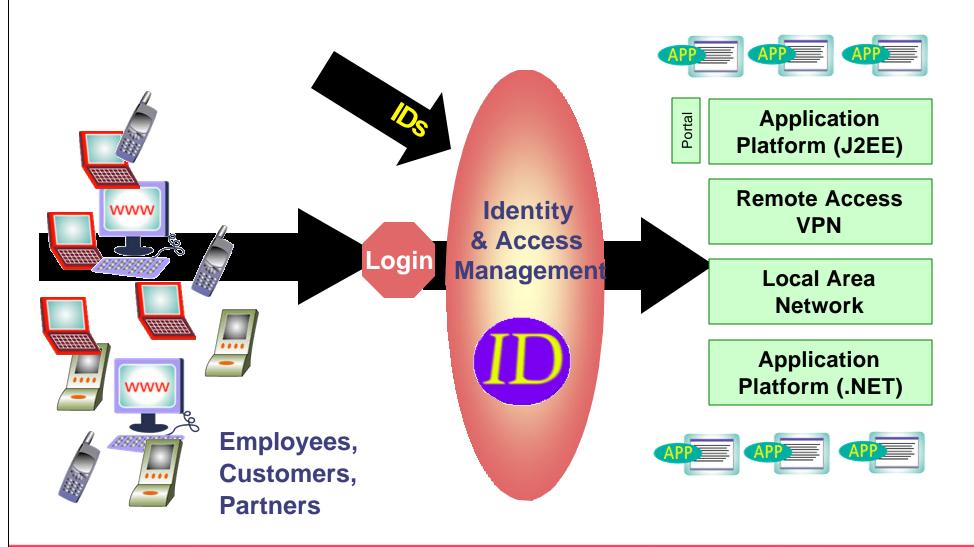




Tomorrow:

Consolidated Identity & Access Management





Authentication

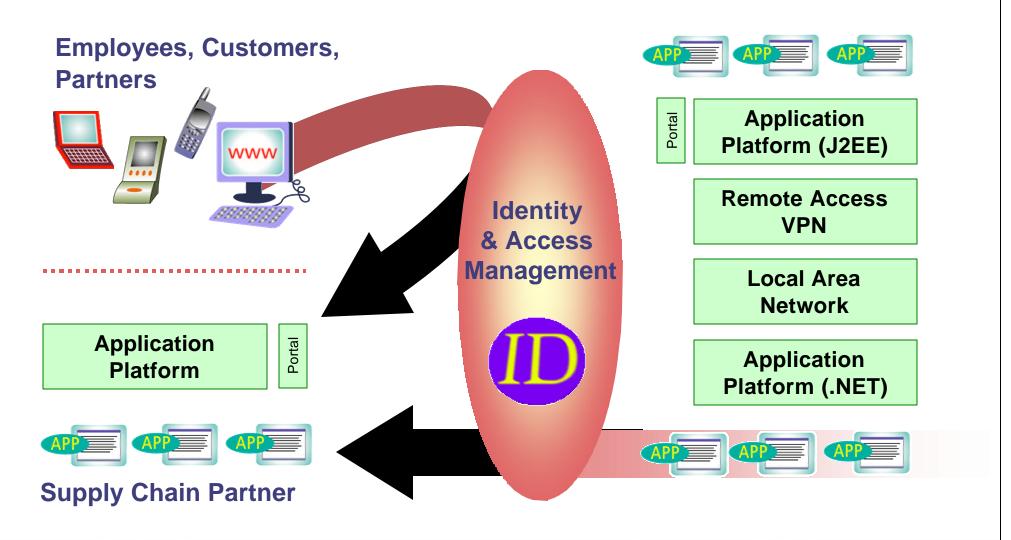
Access Management

Encryption

Tomorrow:

Consolidated Identity & Access Management





Authentication

Access Management

Encryption

Identity and Access Management Defined



The people, processes and technologies dedicated to creating, managing and revoking digital identities,

as well as developing and enforcing policies governing authentication and access

to information systems both inside and outside the enterprise.



Identity & Access Management Business Value



- Enterprises and Agencies say they need to...
 - Manage identities and access for a growing number of applications and users cost effectively
 - Connect users and applications across business boundaries seamlessly
 - —Establish and maintain trust in the identity
 - Define and enforce security policy for varying business requirements flexibly, but with a single infrastructure to manage it
 - —Extend the infrastructure beyond users to support Web Services authentication and authorization requirements

Identity & Access Management Overview



Network & Application Integration

Establishing and Managing Trust in Identities

Defining and Enforcing Business Policy

Automating
Account
Creation &
Termination

User Management

Storing & Retrieving Data

Identity & Access Management Technologies





Authentication

Web Access Management

Provisioning

User Management

Data Storage (Directory or Database)

Authentication

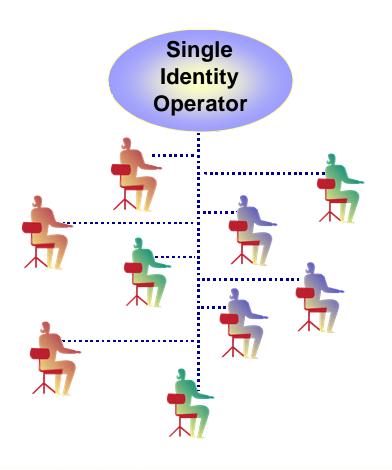
Access Management

Encryption

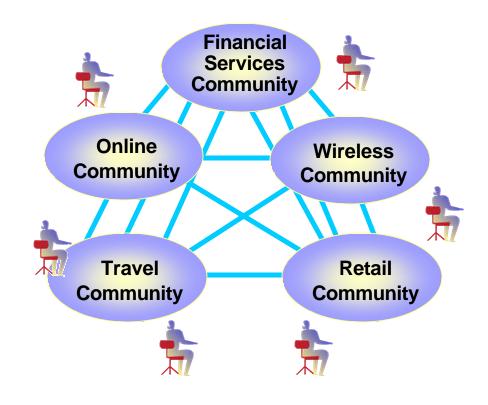
Identity Management Models



Centralized Model



Open, Federated Model



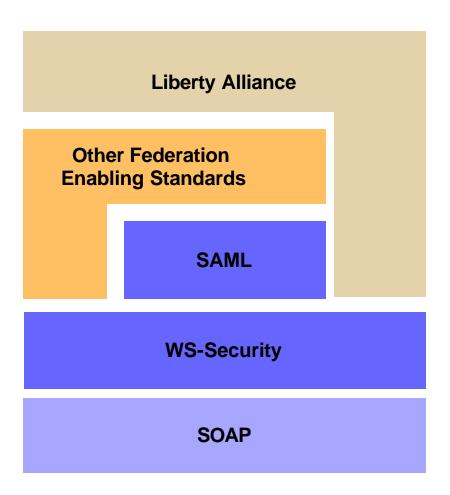
Authentication

Access Management

Encryption







Liberty Alliance: a diverse industry consortium that is developing specifications for federated network identity, simplified sign-on, and authorization among diverse network and applications domains.

Other Federation Enabling Standards:

- •SPML (Service Provisioning Markup Language)
- •XML Access Control Markup Language (XACML)
- •XML Key Management Specification (XKMS).

SAML (Security Assertion MarkUp Language):

a set of XML and SOAP-based services, protocols, and formats for exchanging authentication and authorization information.

WS-Security: mechanisms implemented in SOAP headers designed to enhance SOAP messaging providing a quality of protection through message integrity, message confidentiality, and single message authentication.

SOAP (Simple Object Access Protocol): SOAP is a lightweight, XML- and HTTP-based protocol for remote function invocations between application components.

Source: Burton Group, July 2002

Benefits of an Integrated Identity & Access Management Solution



- Increase competitive advantage
 - Link users & applications across business boundaries
 - Simplify interaction with other businesses
 - Decrease time to develop and integrate applications improves time to market
 - Enable web services & process automation
- Reduce user management costs
 - Provide an integrated user and policy management model

- Improve security
 - Enforce a consistent security policy across multiple resources
 - Ensure trust in identity with strong authentication
- Maximize value through increased interoperability
 - Integrate heterogeneous systems inside & outside an organization
 - Extend current and future applications via standardsbased tools



Compelling ROI & Competitive Advantage



Gartner Group, Nov 2002

- For a business supporting 50,000 external users
- ROI of 375% can be achieved over 3 years
- Save 24,000 hours per year in security administration and 17,800 per year in help desk hours

Giga, Oct 2002

- Improved data management
 - \$350/user per year
- Reduced development of security features and user management
 - \$12,000 per application
- General support improvements
 - \$70,000 per year

"...the institution's ROI was realized within 3-6 months" [from implementing RSA ClearTrust]

- Paul Martinello, Director of Systems Development, Credit Union



Access Management

Encryption



Identity & Access Management Solution





Network & Application Integration







Web Access Management





Provisioning



User Management



Data Storage (Directory or Database)



www.rsasecurity.com