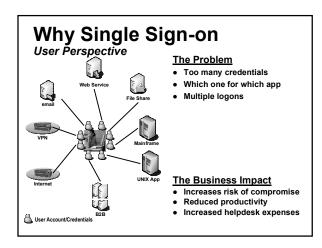
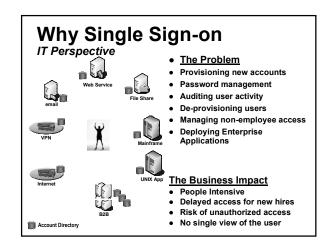
# Single Sign-on and Identity Management

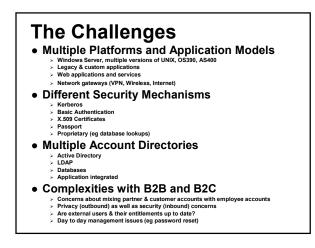
Joe Donahue Federal Program Manager Directory Services Microsoft

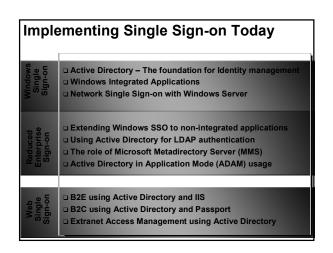
# **Agenda**

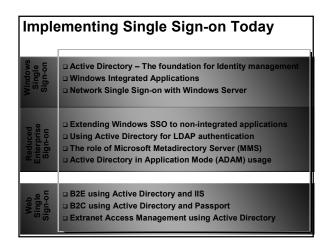
- Why Single Sign-on
- The Challenges of SSO
- Implementing SSO today
  - > Windows SSO
  - > Reduced Sign-on (Enterprise SSO)
  - > Web SSO (B2E, B2B & B2C)
- Microsoft Identity Roadmap













- User Accounts & Attributes
   System Accounts & Attributes
- Organizational & Security Groups
- Application & Service Locations
- Management Policy
- Security PolicyDigital Certificates
- Network Access PermissionsPrinter Locations
- · File Shares Locations

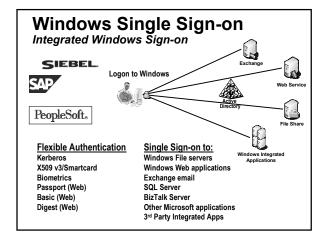
### **Integrated Security**

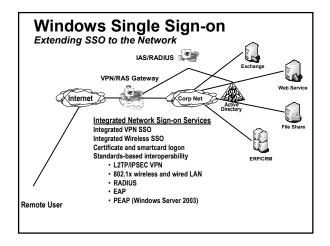
- Kerberos v5
   x.509 Certificates (PKI)
- Security Domain

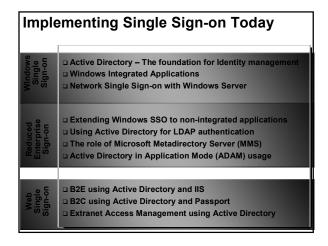


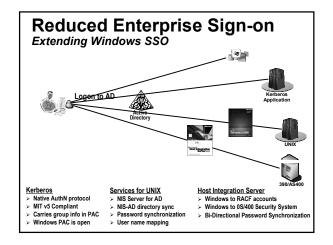
### **Directory Access Protocols**

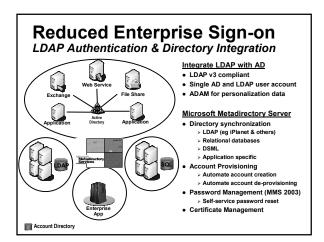
- · LDAP v3 Standards-based access
- ADSI Simple COM-based Interface
- DSML XML Interface

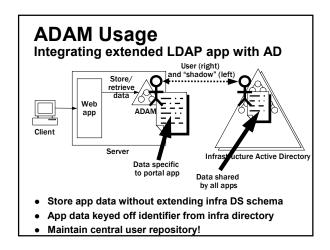


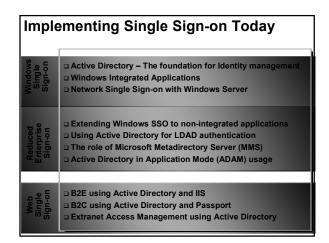


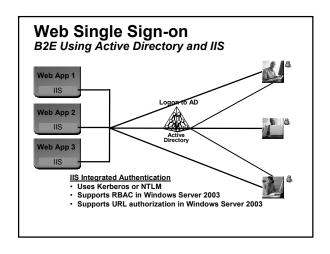


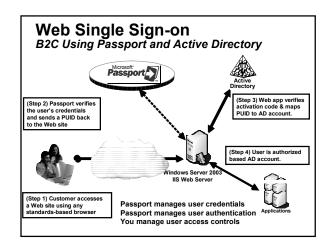


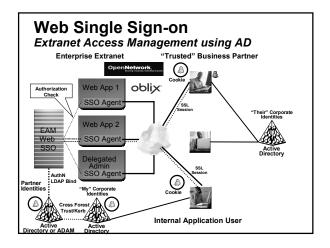






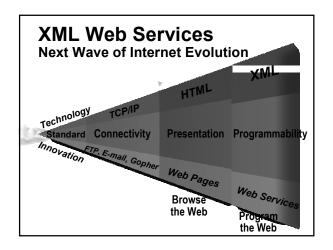


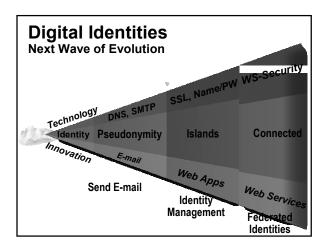


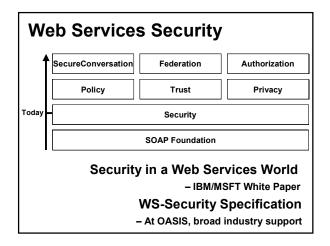


## What's Next?

**Vision and Roadmap** 

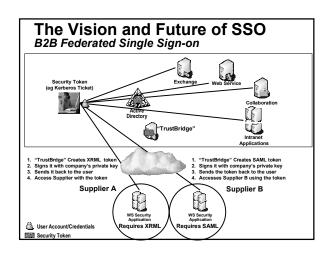






# The Vision of Single Sign-on

- A Single User Identity
  - > A single corporate identity
  - > A single consumer identity
- Strong multifactor authentication
  - > Certificates
  - Biometrics
- Interoperability (client and server)
  - > Multi-Platform
  - > Multi-Application
  - > Multi-Protocol
- Federated Authentication and Access
  - > Single Sign-on that spans businesses
  - > Single sign-on that spans consumer applications



# **Identity Management Roadmap**

- XML Web Services Specifications

  Broad set of specifications to enable federation of Web Services
  In collaboration with IBM, Versign, etc.

  WS-Security working group within OASIS

  Nerbrox, X5993, AML and XML "excurit plokens"
- Windows Server 2003 April 2003
  Cross Forest Trust Intranet Federation

- Cross Forest Trust Intranet Federation
  Native support for Passport authentication
  Integrated Role-Based Access Control
  Web Services integration (LNET framework and UDDI)
  MMS 2003 Windows Server 2003 + 90 days
  Directory Integration & Synchronization
  Account Provisioning
  Password Management
  Single view of a user across the enterprise
  Active Directory Application Mode Windows Server 2003 + 90 days
  Enables AD to be deployed as a "simple" LDAP directory
  Used for application specification will be a supplication of the service of the service
- "Jupiter" (e-business server) Q4 2003

  SSO through adapters to enterprise applications
- SSO through adapters to enterprise applications

  Rassport Federation Support H2 2003

  Authentication authority for consumer web services

  Federation support in 2003 based on Web Services

  "TrustBridge" TBD

  Based on WS-Security for identity interoperability

  True federated Single Sign-on (no duplicated or mappore)

  Web Security nutrine to enable Indentated applications

# **Summary**

### Standardize on a Single Directory Technology

- Consolidate LDAP directories with Active Directory
- Use AD with integrated security for Windows SSO
- Use AD/AM for application specific user information

### **Use Kerberos for Interoperability**

- Industry standard protocol for authentication
- Native protocol used by Windows Servers and Clients
- Used by many UNIX-based applications

# <u>Use MMS to Simplify Identity Management</u> Directory integration synchronization

- Simple Account provisioning
- Password management
- Single view of the user across the enterprise

### Plan for Federated Identity Management

- Utilize Web services standards (XML, SOAP, UDDI)
- Get familiar with WS-Security
- "TrustBridge" will enable secure identity federation



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