

# WebSphere and Tivoli: Open Security Roadmap

## ▶ Aggressive implementations of Open Java/Web Services Standards

- ✓ Active lead in Web Services Standards
- ✓ WAS v5 support for WS-Security specification, following the leadership shown in v4 through SOAP Security support
- ✓ Web Services Toolkits for early implementations and demos of emerging specifications and WebSphere SDK for Web Services.
- ✓ UDDI (in WAS V5) for one-stop shopping for information on businesses and electronic services
- ✓ Web Services Gateway (in WAS V5) for Web Services communication capability

## ▶ Integrated Middleware Offerings with unified Security Management

- ✓ Enhanced WebSphere/Tivoli integration for centralized security solutions across Web, J2EE, and Legacy resources
- ✓ Tivoli Access Manager (TAM) is integrated with the WebSphere Portal, WebSphere Everyplace Server, and the WebSphere Edge Server.
- ✓ Interoperability between TAM and WAS, with future plans to imbed TAM within WAS. TAM is leveraged for authentication and authorization for centralized policy management of J2EE and legacy resources and is being extended for web services.

## ▶ Example WebSphere Partner Support

- ✓ nCipher/Rainbow Technologies accelerator cards with Rainbow as WebSphere Ready
- ✓ Entrust, Verisign and Baltimore Technologies as Certificate Authorities for Certs
- ✓ Microsoft, RSA ClearTrust and Netegrity SiteMinder interoperability

## ▶ Example Tivoli Partner Support

- ✓ Can use Entrust, Verisign and Baltimore Technologies Certificates w/TAM for PKI
- ✓ Microsoft, BEA, RSA SecurID Token interoperability

## ▶ Comprehensive, Open Identity Management Platform for Advanced Business Integration & Vendor Interoperability

- ✓ Open Federated Identity Management for communication across trusted organizations with varying security approaches that includes Tivoli Access Management Services' support for :
  - Multiple security mechanisms including SAML, Kerberos, Digital Signatures, XKMS
  - Interoperability with external trust brokers including Microsoft TrustBridge through Web Services Trust Proxy
  - Integrated Identity Mapping, Credential Mapping and Token Services
  - Fine-grained authorization for SOAP transactions (early implementation of WS-Authorization).
  - Security Provider for WebSphere Application Server
- ✓ WebSphere Family of Offerings that support open security model for pluggable 3rd party Authentication (including trust interceptors for HTTP and SOAP channels), Authorization, Identity/Credential Mapping and User Registries Solutions; with out of the box solutions including Kerberos and Tivoli Access Manager
- ✓ WebSphere Studio Development tools to enable developers to incorporate security in Web Services applications
- ✓ Metamerge for directory integration to work across LDAP servers including Active Directory and will be incorporated into the Tivoli and WebSphere portfolios.

## ▶ Secure Autonomic & Grid Computing

- ✓ Based on OGSA (Open Grid Services Architecture) using Web Services

Lower TCO and Unlimited Access to Info  
Grid & autonomic security

Greater Flexibility for Unified e-business  
Advanced business integration & vendor interoperability

Extend Reach and Increase Control  
Interoperability and open Web services/Java adoption

**Tivoli.** software

**WebSphere.** software