

Microsoft's Identity and Access Strategy

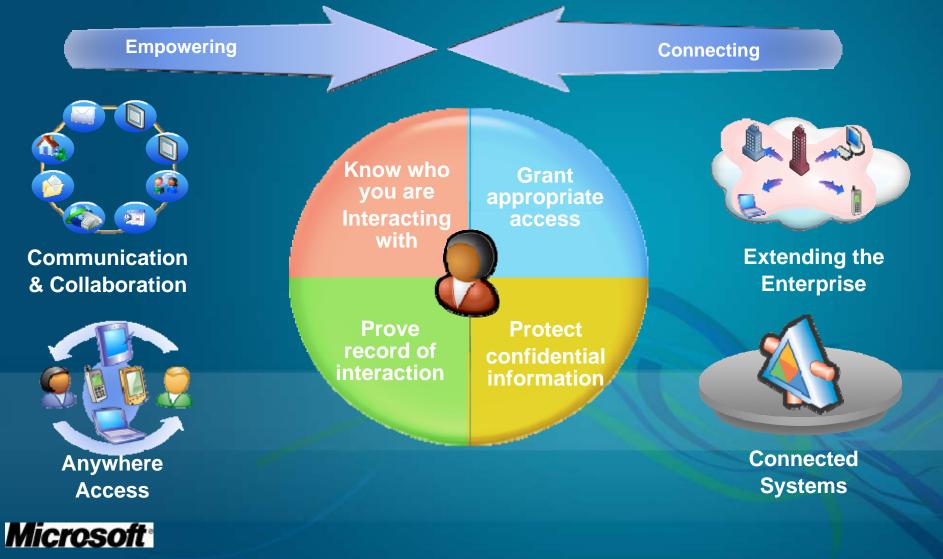
Kim Cameron Chief Architect of Identity, Microsoft Corporation

Outline

- The Power of Identity
- Challenges with Identity
- Laws of Identity
- Identity Metasystem
- Microsoft Product Strategy
 - Active Directory
 - InfoCard



The Power of Identity



Today: Multiple Identities... and Multiple Formats **Relying Parties**

Identity Providers

Mainframe Government **Username/Password** Website **Business** SAML Corporate Personal Kerberos FAT BOODES DEVICE U



Threats to Online Safety

- The Internet was built without a way to know who and what you are connecting to
 - Internet services have one-off "workarounds"
 - Inadvertently taught people to be phished
- Greater use and greater value attract professional international criminal fringe
 - Exploit weaknesses in patchwork
 - Phishing and pharming at 1000% CAGR
- Missing an "Identity layer"
 - No simplistic solution is realistic



Lessons from Passport

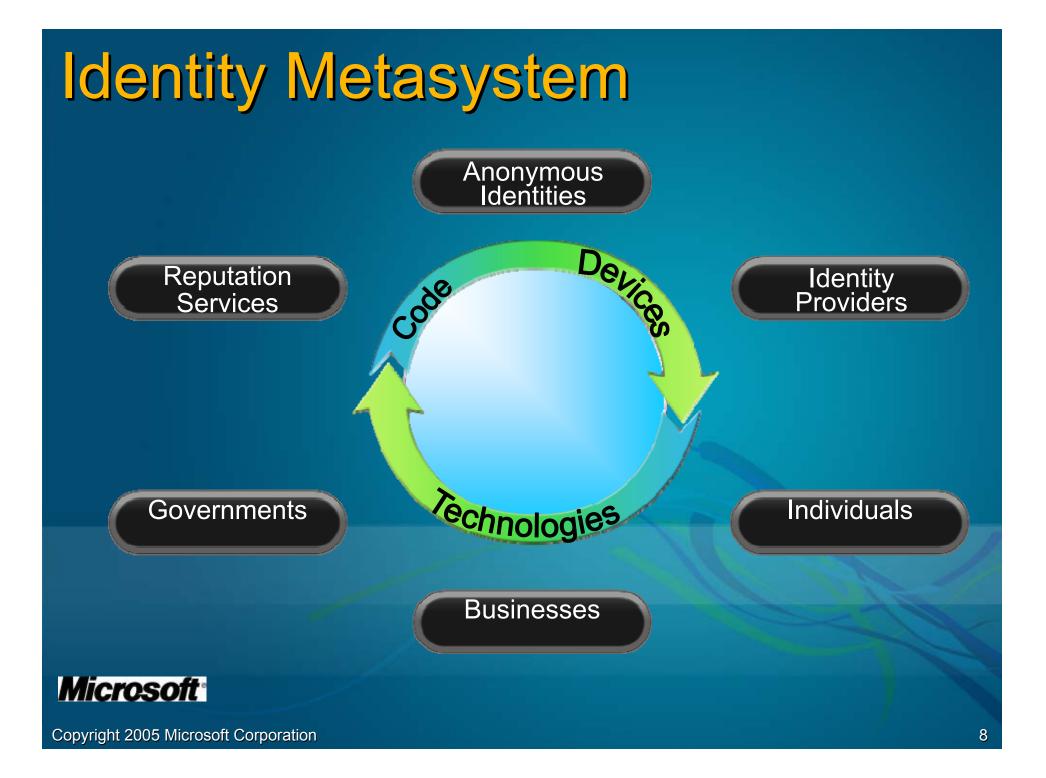
- Passport designed to solve two problems
 - Identity provider for MSN
 - 250M+ users, 1 billion logons per day
 - Identity provider for the Internet
 Unsuccessful
- Learning: solution must be different than Passport

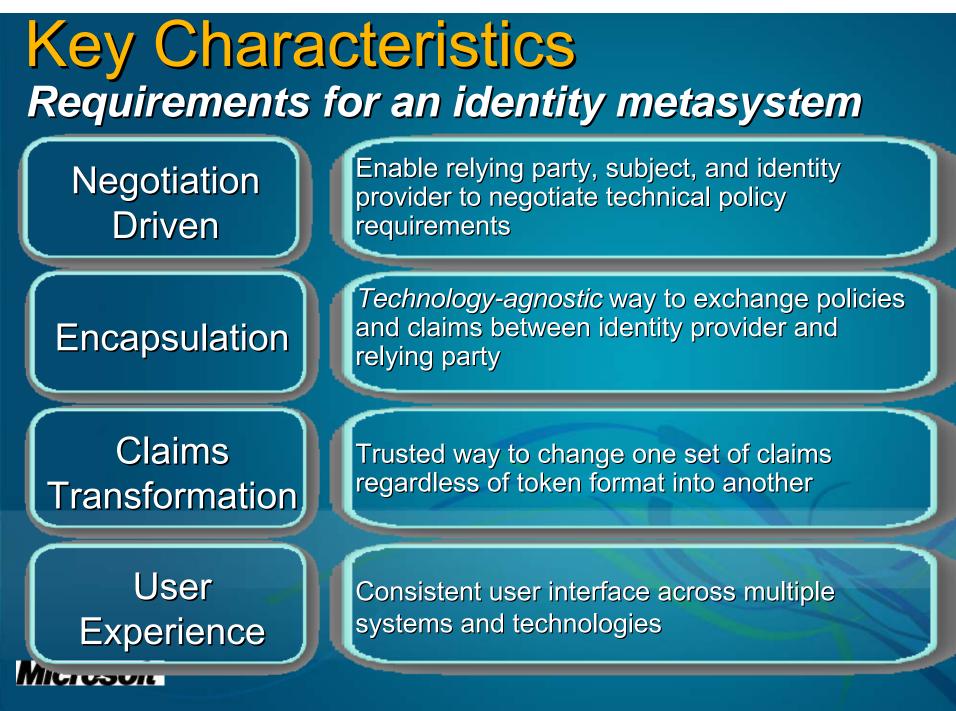




The Laws of Identity An Industry Dialog

I	1.	User control and consent				
C	2.	Minimal disclosure for a defined use				
C	3.	Justifiable parties				
C	4.	Directional identity				
C	5.	Pluralism of operators and technologies				
C	<mark>6</mark> .	Human integration				
C	7.	Consistent experience across contexts				
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	cros					
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Metasystem Players

Identity Providers Issue identities

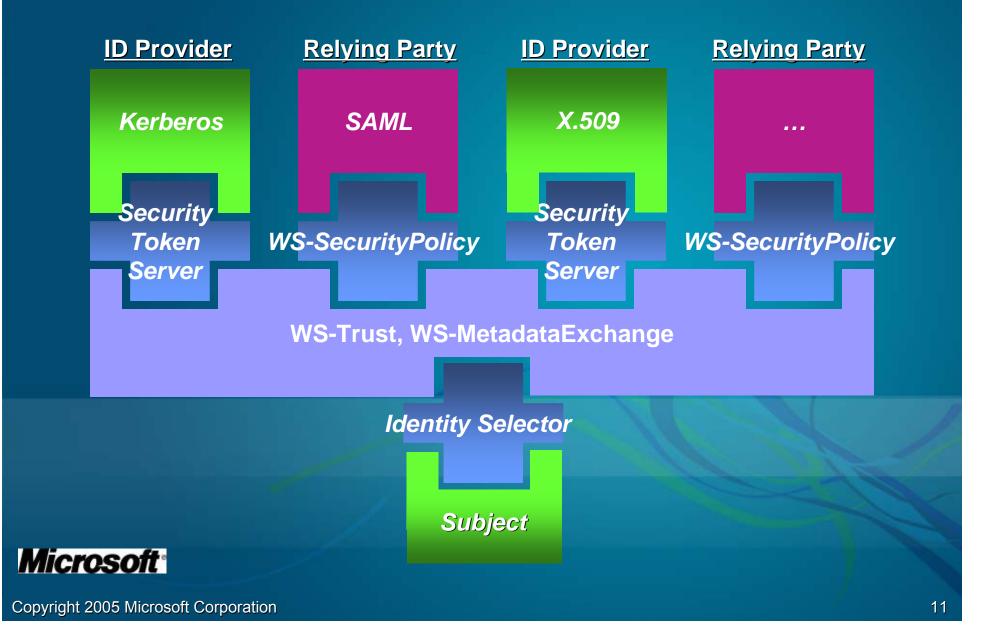


Relying Parties Require identities

Subjects Individuals and other entities about whom claims are made



Web Services Metasystem Architecture



InfoCard *Returning Identity Control to the End User*

Easier

- Reduces reliance on usernames & passwords
- Consistent user interface for login and registration
- Grounded in realworld metaphor



Safer

- Helps end users avoid many phishing attacks
- Support for two-factor authentication

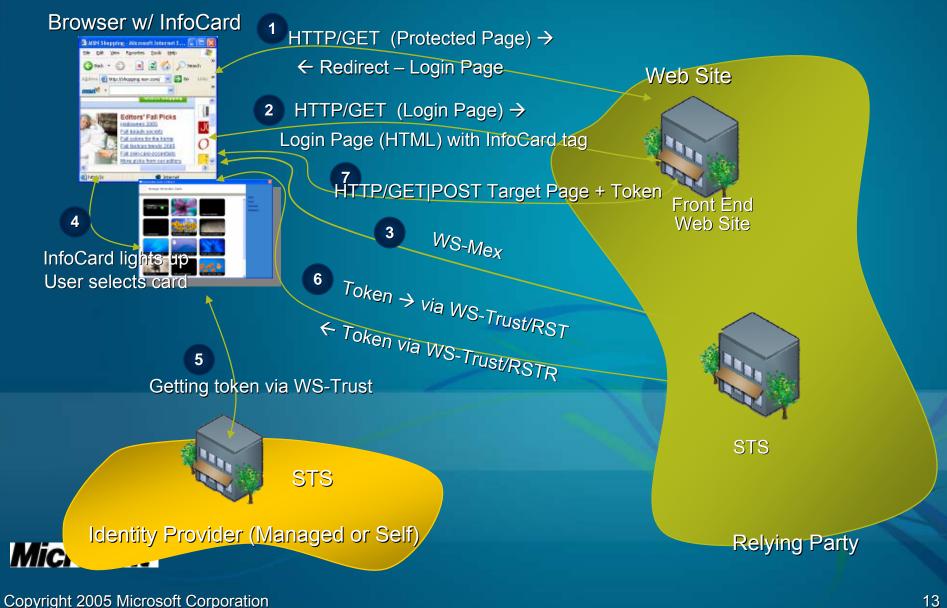
hor Secure
Built on Web Services Protocolsubsystem

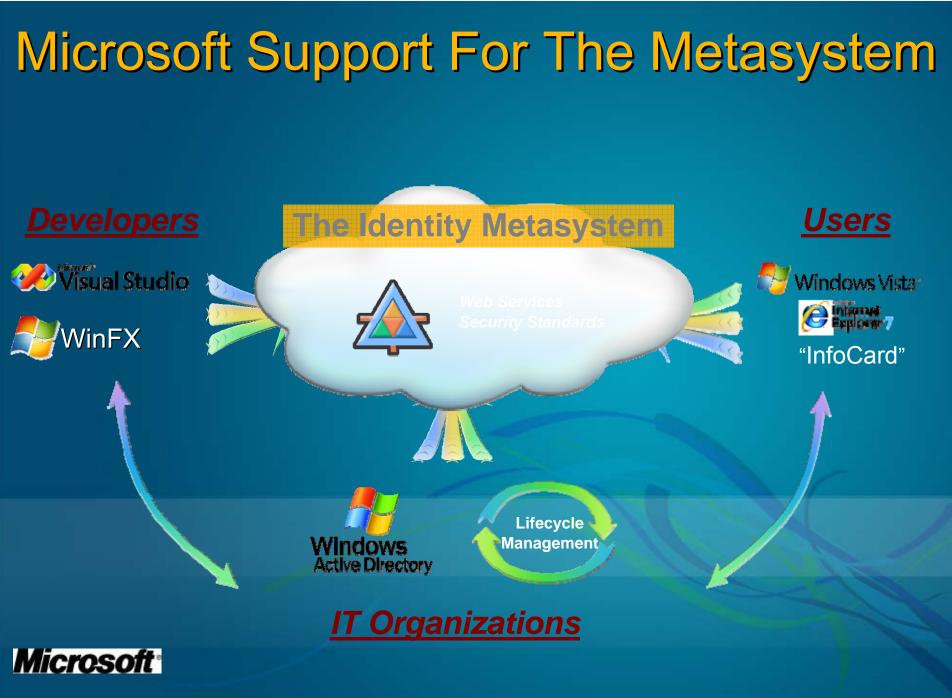
 Self-asserted and "managed" identities

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InfoCard Protocol Flow





Active Directory As An Evolving System

59%

Strong Credentials

Certificate Services

Information Rights Rights Management Services

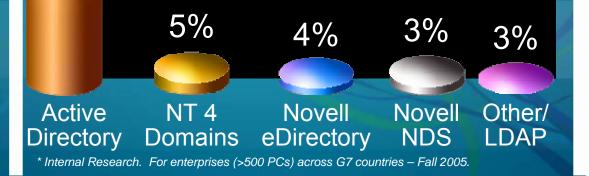
Federated Identity Active Directory Federation Services

IDA Management Microsoft Identity Integration Server

Domain and Directory Services

Windows Active Directory Windows Active Directory

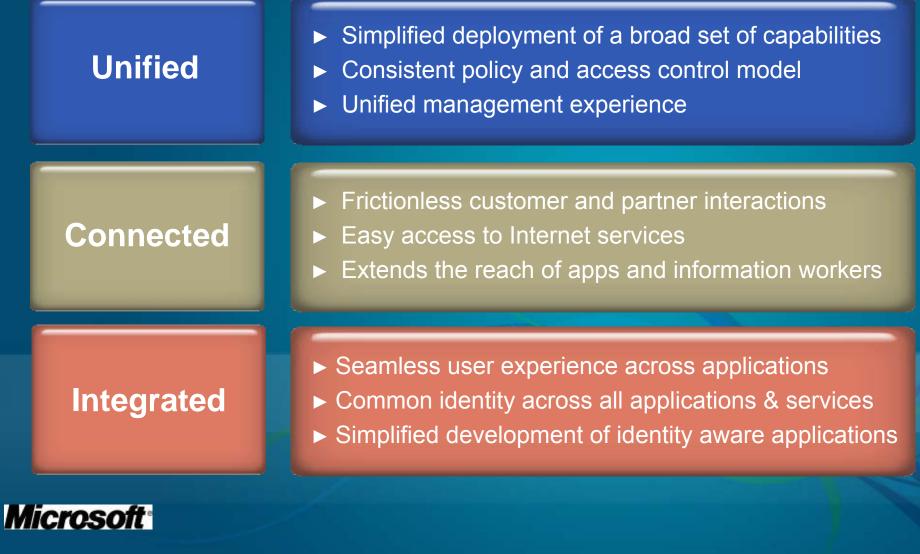
Primary Directory Usage For Employee Authentication*



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Microsoft's Active Directory Vision Unleash The Power of Identity



AD for Unified Identity & Access





Domain/Directory Services

Certificate Services



ADFS



Metadirecory Engine



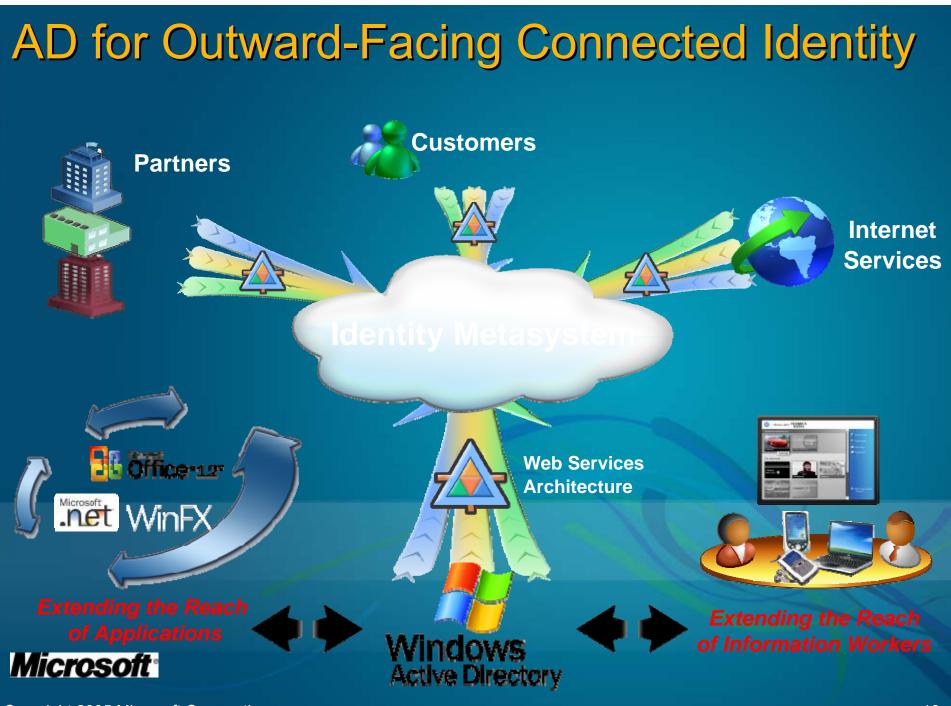
Authorization RMS Manager

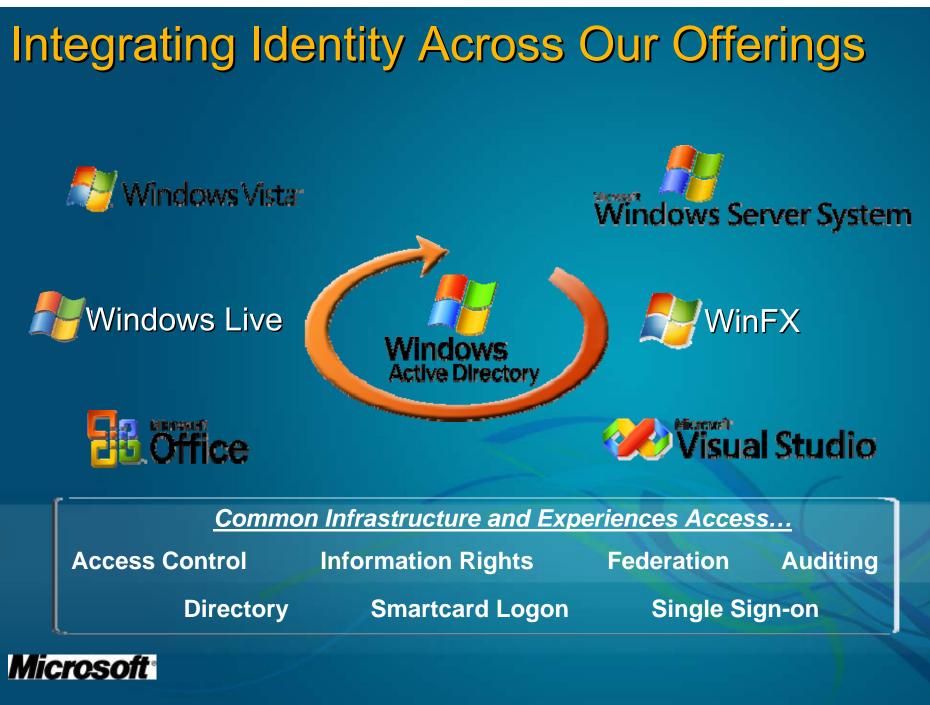




Unified architecture, policy model, and management experience







Managing Identity and Access

Identity Integration

- Heterogeneous Identity Aggregation
- Policy-Driven Workflow
- Automated Provisioning

Microsoft[®] Certificate Lifecycle Manager

- Simplified Credential Management
- Smart Card Integration
- Policy-Driven Workflow



Summary

- We are proponents of an Identity, Privacy and Trust Ecosystem where everyone is welcome
- We are adopting a holistic approach making identity easy and safe for end users, application developers, web sites and IT professionals
- Microsoft sees an Identity Metasystem based on Web Service Standards as the way to reach across devices, platforms and applications
- We are planning to unleash the Power of Identity by making all our products identity aware
- We have an inclusive vision, we are executing on it, and we look forward to working with everyone in the industry to build an Identity Metasystem for the Internet
- Contact me at http://www.identityblog.com

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