Liberty Alliance Project

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SUN

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Establish an open standard for federated network identity through open technical specifications that will:

- Support a broad range of identity-based products and services
- Allow for consumer choice of identity provider(s), the ability to link accounts through account federation, and the convenience of single sign-on, when using any network of connected services and devices
- Enable commercial and non-commercial organizations to realize new revenue and cost saving opportunities that economically leverage their relationships with customers, business partners, and employees
- Improve ease of use for e-commerce consumers

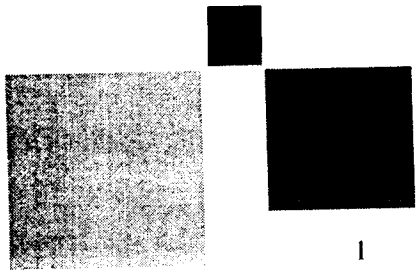
- **Simplified Sign-On:** Provide an open simplified sign-on specification that includes federated authentication from multiple providers operating independently, simplified access across multiple accounts within a trust community, and portable on-line identity

- **Enhance Constituent Relationships:** Enable commercial and non-commercial organizations to control, maintain and enhance relationships with constituents

- **Support All Devices:** Create a network identity infrastructure that supports all current and emerging network access devices

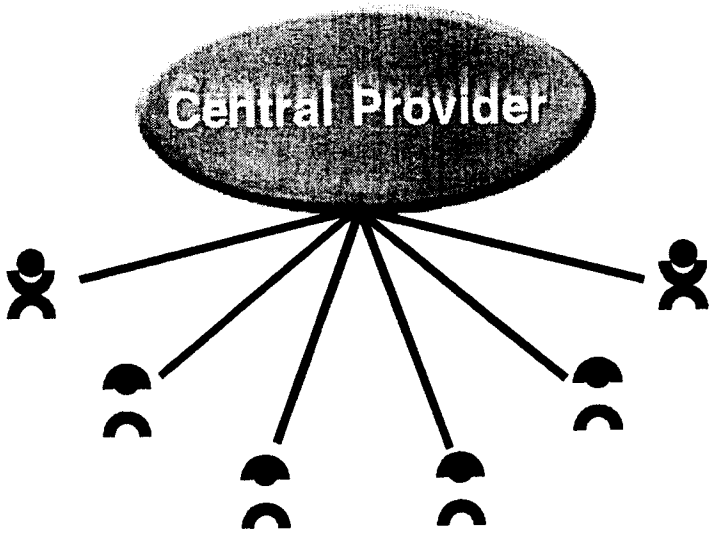
- **Enable Consumer Privacy:** Enable commercial and non-commercial organizations to protect consumer privacy

- **Support Interoperability:** Provide a mechanism supporting interoperability with existing systems, standards, and protocols



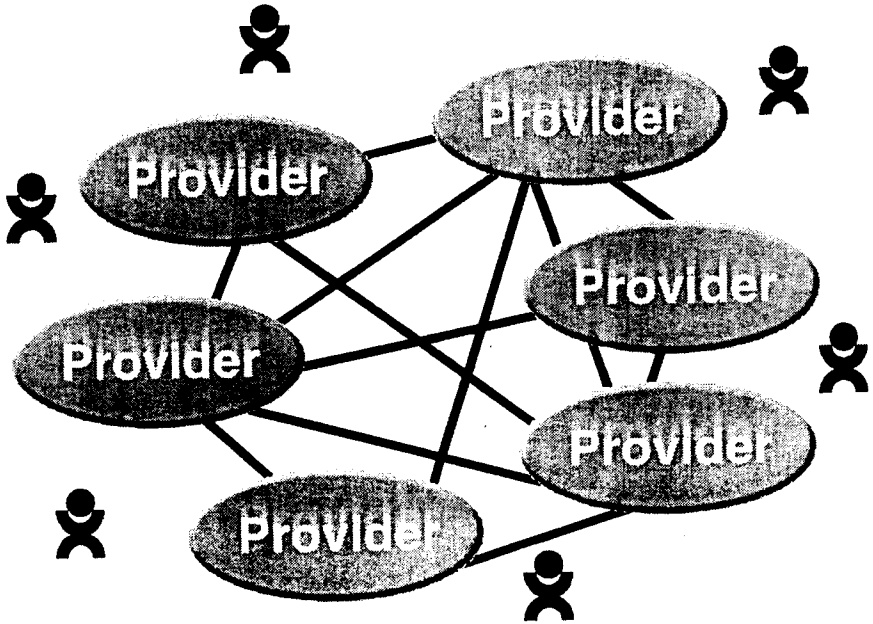
Centralized Model

- Network identity and user information in single repository
- Centralized control
- Single point of failure
- Links similar systems



Open Federated Model

- Network identity and user information in various locations
- No centralized control
- No single point of failure
- Links similar and disparate systems



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to ATM Networks

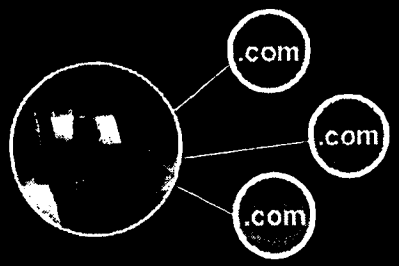
Separate Cards with Each Bank

Bank A ATM Card

Bank B ATM Card

Bank C ATM Card

Individual Accounts with Many Web Sites



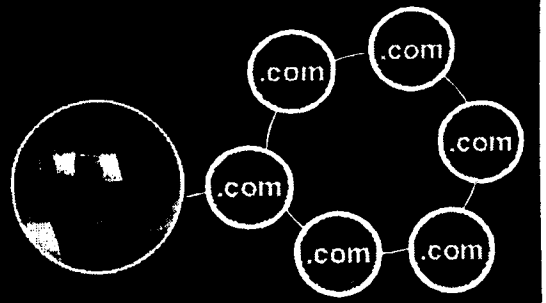
Linked Cards within Bank Networks

Bank ATM Network A

Bank ATM Network B

Bank ATM Network C

Federated Accounts within Trust Domain



Seamless Access Across all Networks

Bank A ATM Card

Bank B ATM Card

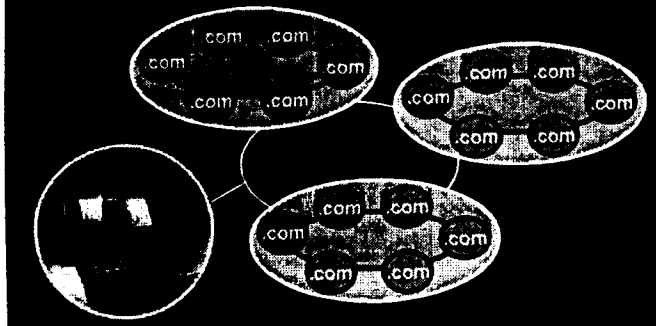
Bank C ATM Card

Bank ATM Network A

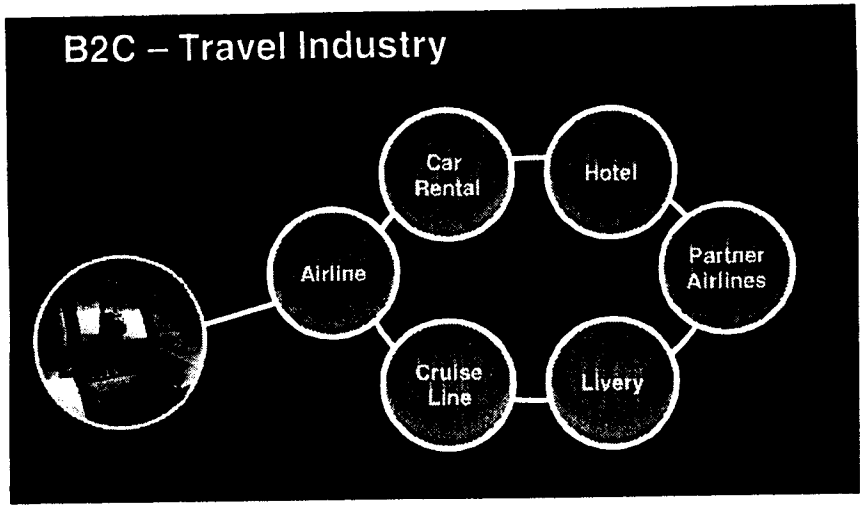
Bank ATM Network B

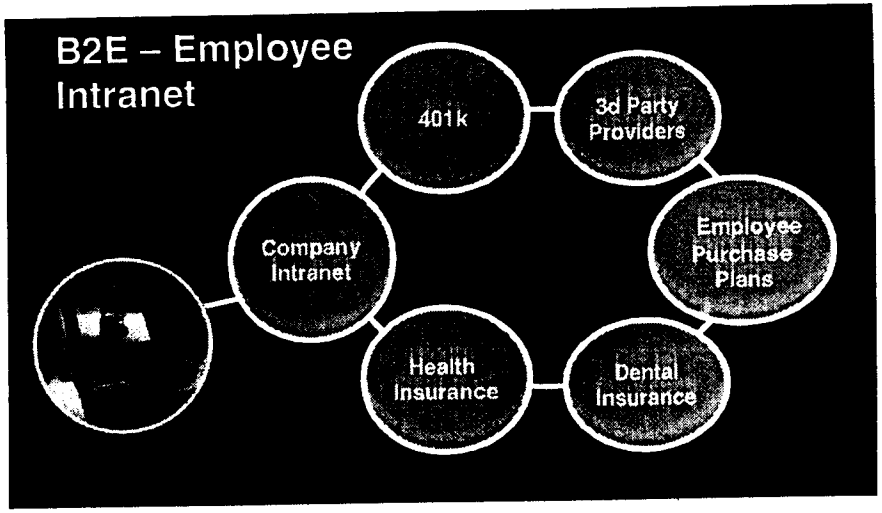
Bank ATM Network C

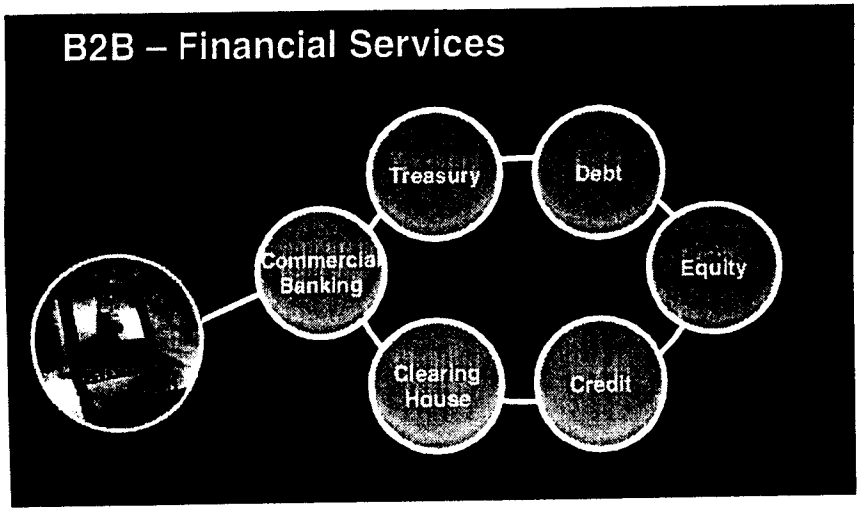
Linkage of Trust Domains

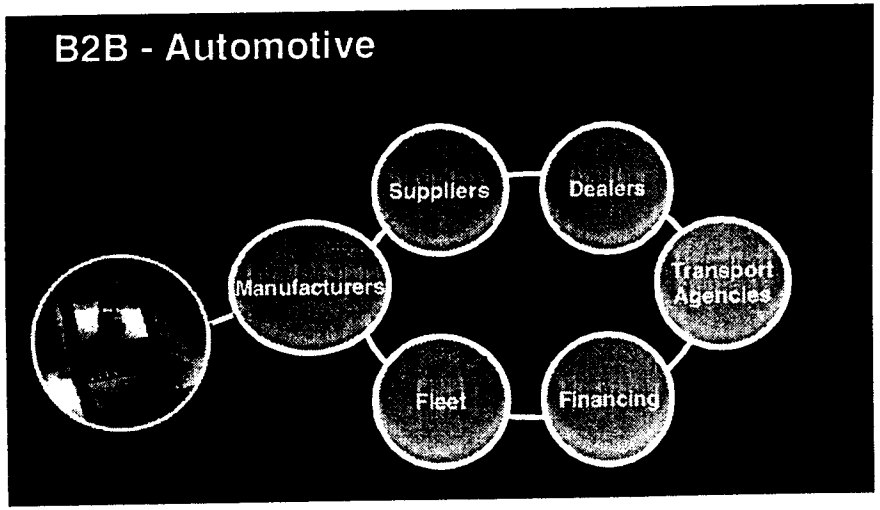


Examples of Trust Domains









Specifications: A Phased Approach

Approach Drivers

- Support rapid acceptance and deployment
- Easy incremental adoption

Version 1.0

Federated network identity

Opt-in account linking and simplified sign-on within an authentication domain created by business agreements

Security built across all the features and specifications

Future Versions

Permissions-based attribute sharing

Schema/protocols for core identity profile service

Simplified sign-on across authentication domains created in version 1.0 by business agreements

Delegation of authority to federate identities/accounts

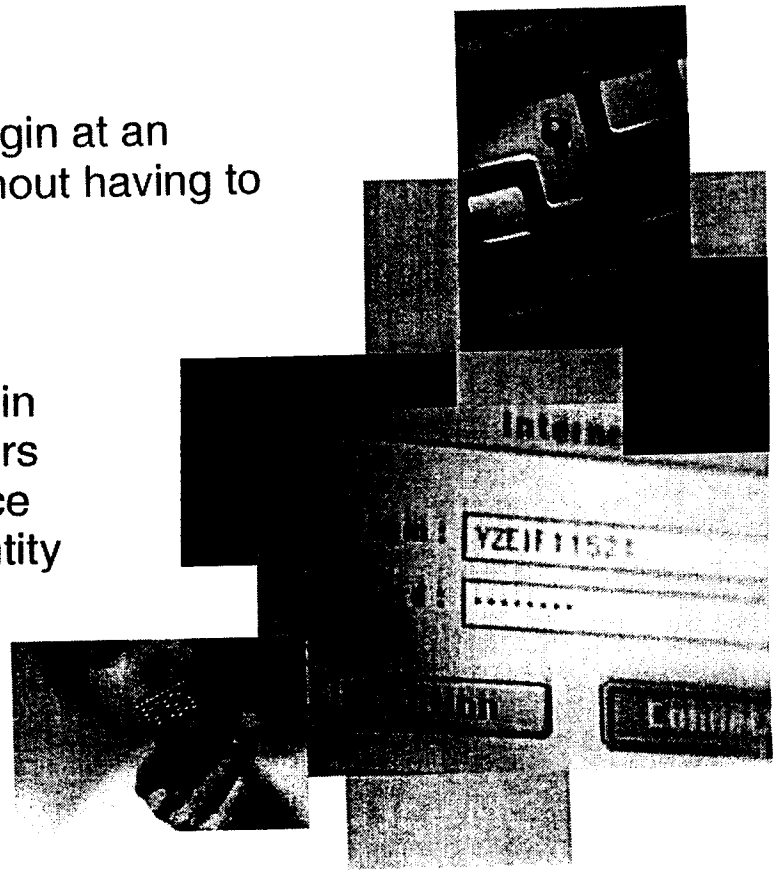
Objectives for Version 1.0 Specification

Federated Network Identity and Authentication Sharing

- **Enhance "Affinity" Relationships:** Enable organizations to enhance business relationships by mutually recognizing user authentication across service offerings

- **Simplify User Experience:** Enable users to login at an organization's site and then go to a linked site without having to re-authenticate or re-establish identity

- **Enhance Intra-Enterprise Relationships:** Enable organizations to consolidate identities within their own extended enterprises, enabling customers or employees to move seamlessly from one service to another without having to re-establish their identity or re-authenticate at every site



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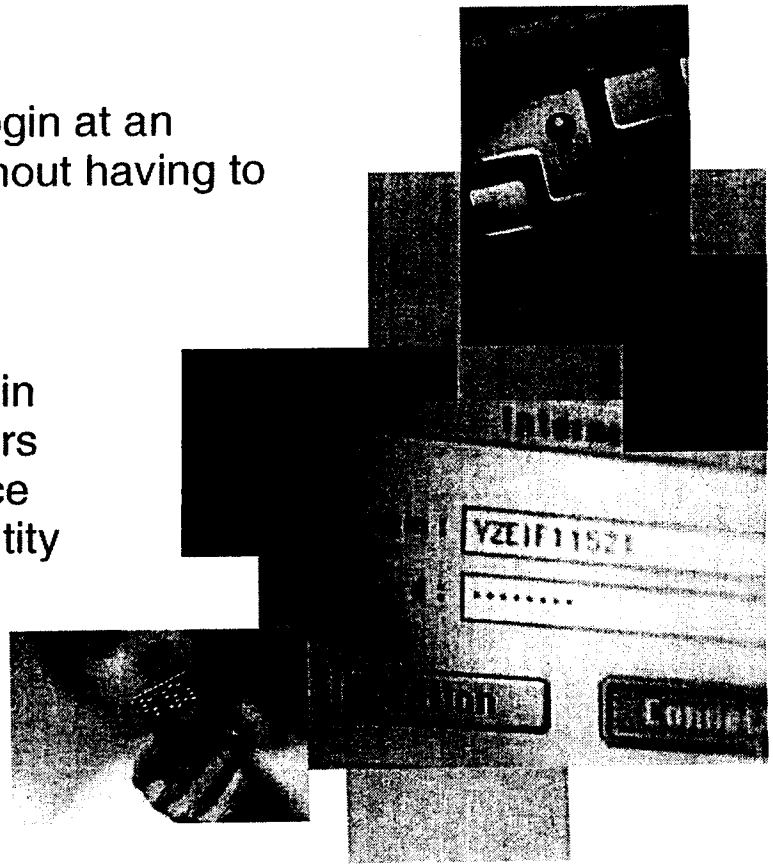

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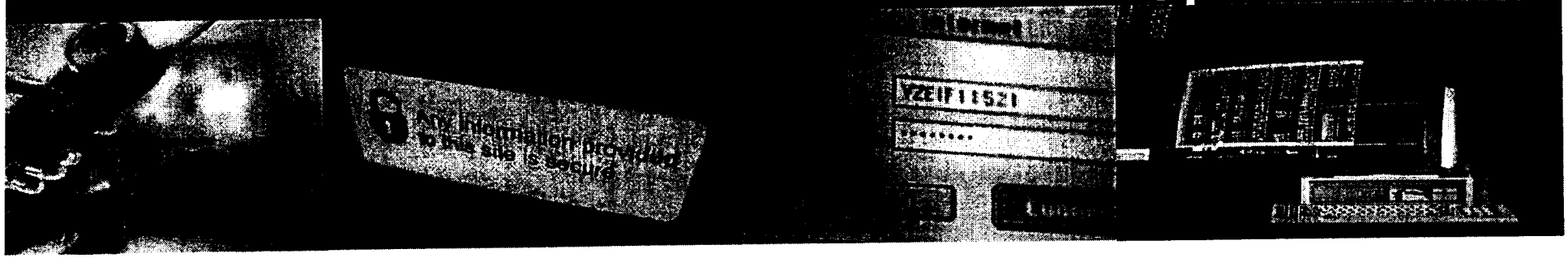
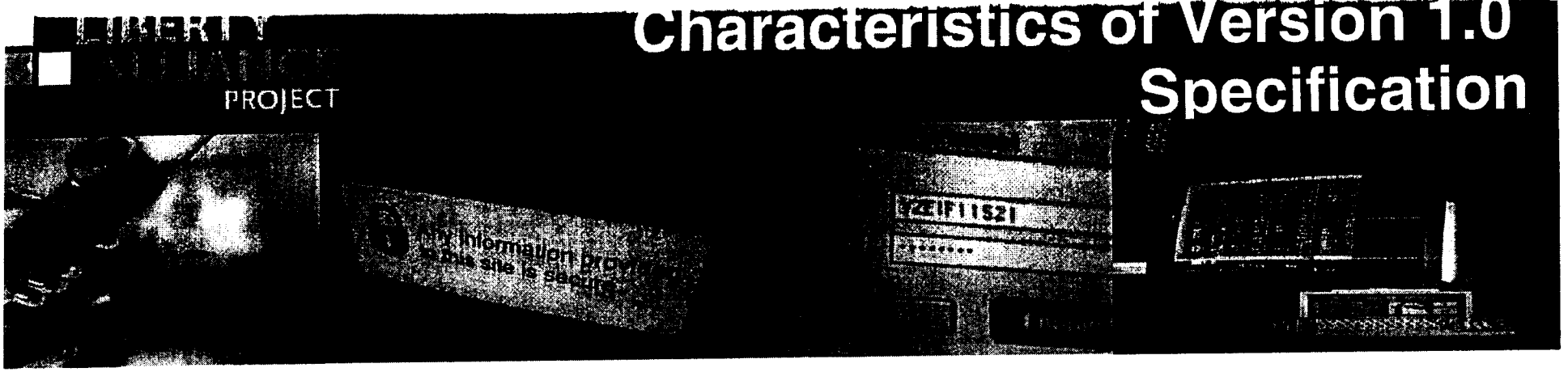
Characteristics of Version 1.0 Specification



- Opt-in account linking mechanism
  - Federated network identity and authentication sharing mechanism that is easy to use and interoperable with existing identification systems
- Simplified sign-on
  - For linked accounts
- Improved consumer confidence
  - Extend the best available security measures to identity sharing
  - Provide organizations with guidance about how to provide consumers with permission controls for federated network identity and authentication sharing



Characteristics of Version 1.0 Specification

- Decentralized approach
  - A fully federated architecture, enabling greater user security and a choice of identity providers
  - Accelerated time to market for identity based services
- Open
  - Open, platform and technology neutral specification
- Interoperability
  - Will seek to ensure interoperability with existing systems, standards, and protocols

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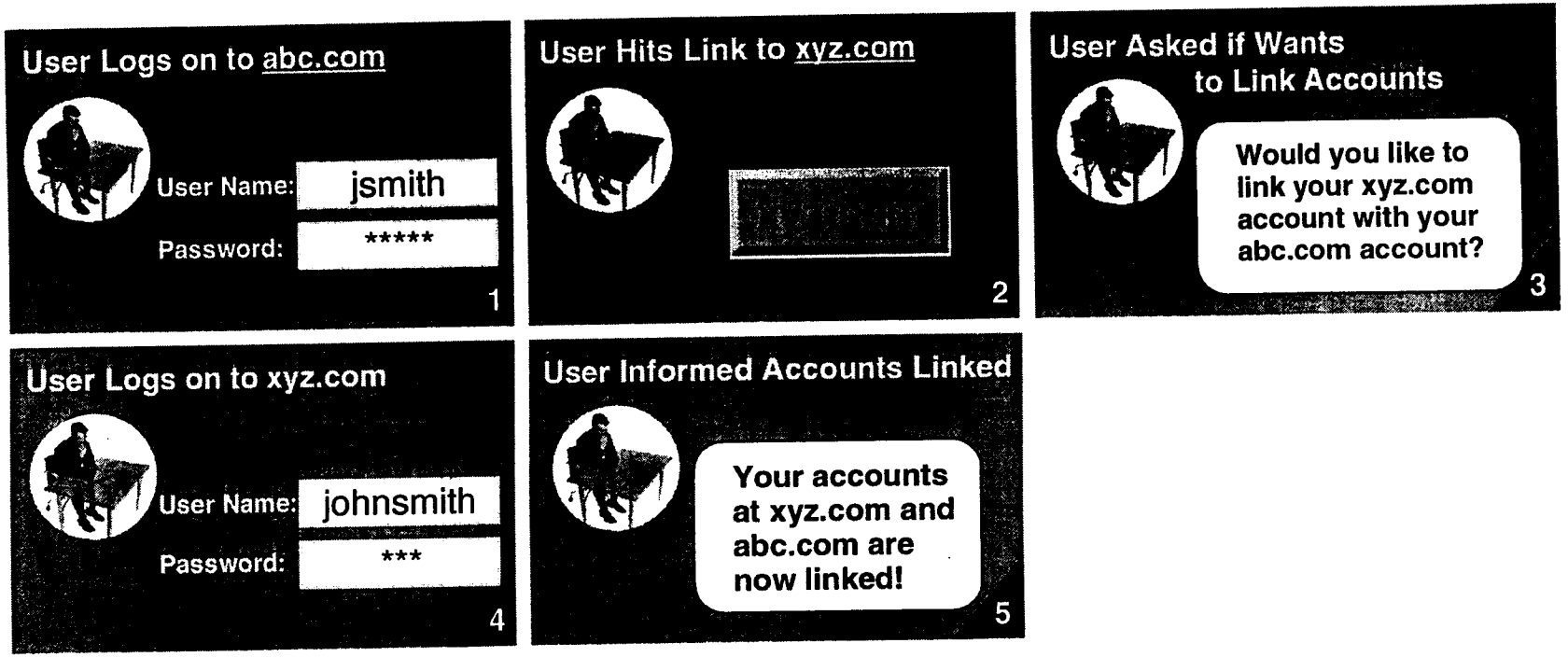
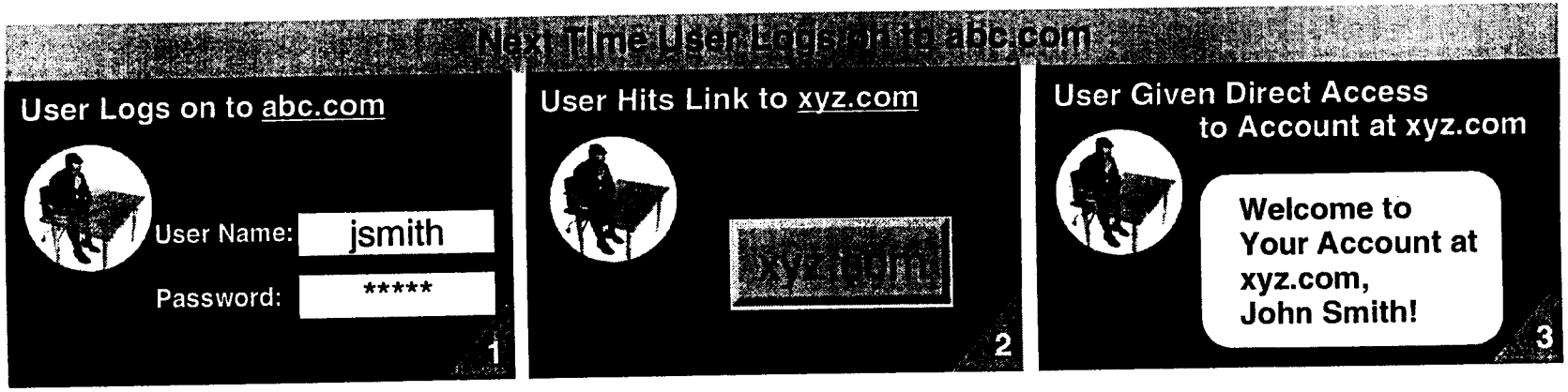
Sample Version 1.0 User Experience

Account Federation



Federated Simplified Sign-On



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Version 1.0 Specifications Functionality

- **Opt-in account linking –** Users can link their accounts with different service providers within "circles of trust"

- **Simplified sign-on for linked accounts –** Once users' accounts are federated, they log-in, authenticate at one linked account and navigate to another linked account, without having to log-in again

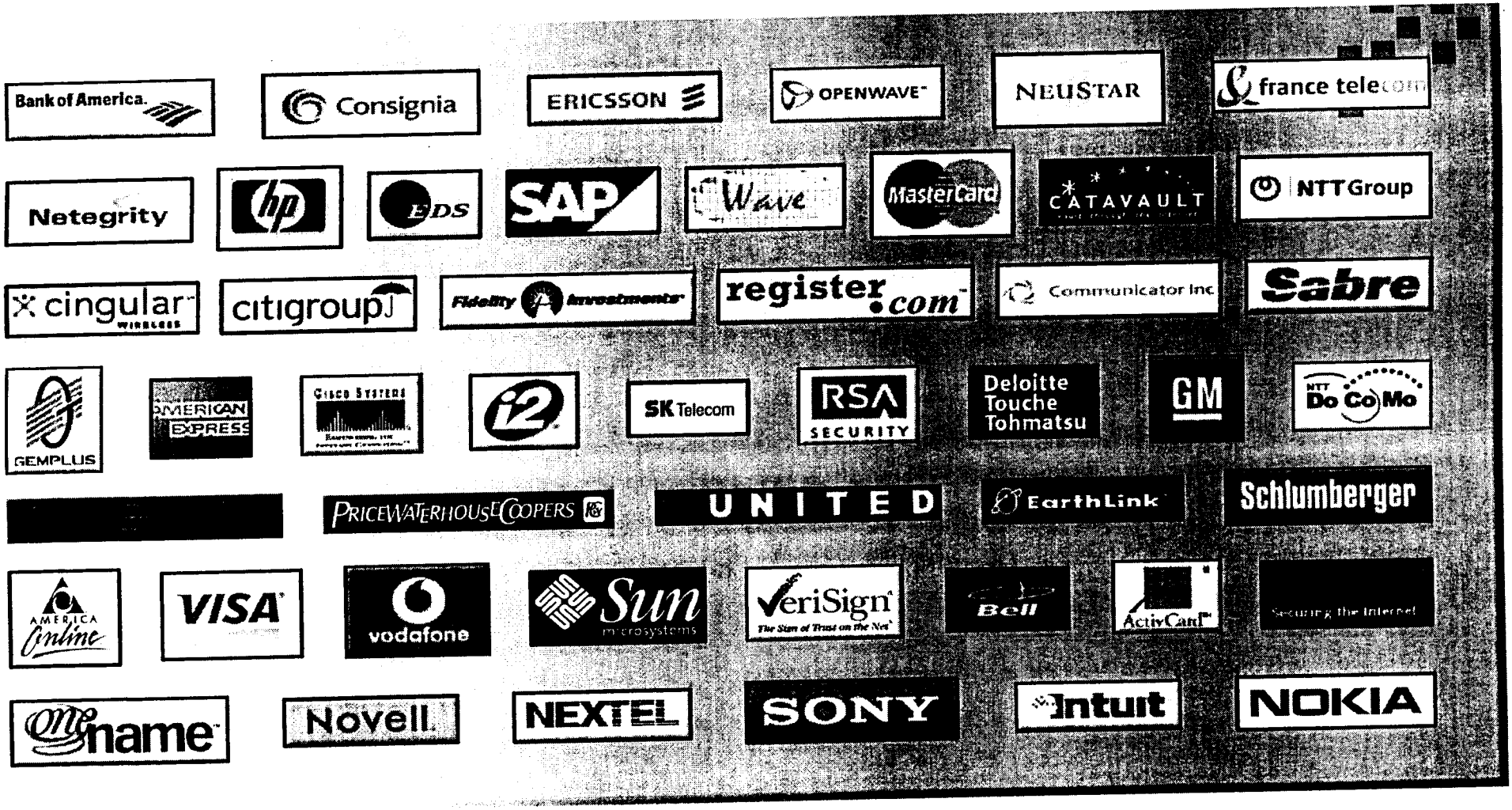
- **Authentication context –** Companies linking accounts communicate the type of authentication that should be used when the user logs-in

- **Global log-out –** Once users log-out of the site where they initially logged in, the users can be automatically logged-out of all of the other sites to which they were linked

- **Liberty Alliance client feature –** Implemented on client solutions in fixed and wireless devices to facilitate use of Liberty version 1.0 specification

Membership

- 45 sponsors
- Affiliate and associate memberships opened May 29, 2002



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Membership Levels

Sponsors

- Full participation and voting in any or all Expert Groups
- Can run to fill Management Board vacancies
- Representatives can be officers in Expert Groups

Membership Fee:
$120,000/year maximum

Associates

- Can view and comment on draft specifications prior to public release
- Access to alliance member web site
- Can attend semi-annual "All Participants" meetings

Membership Fee:
$[illegible]/year minimum

Affiliates

- For government agencies, educational institutions, and non-profit organizations only
- Have same privileges as Associate members

Membership Fee:
None

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