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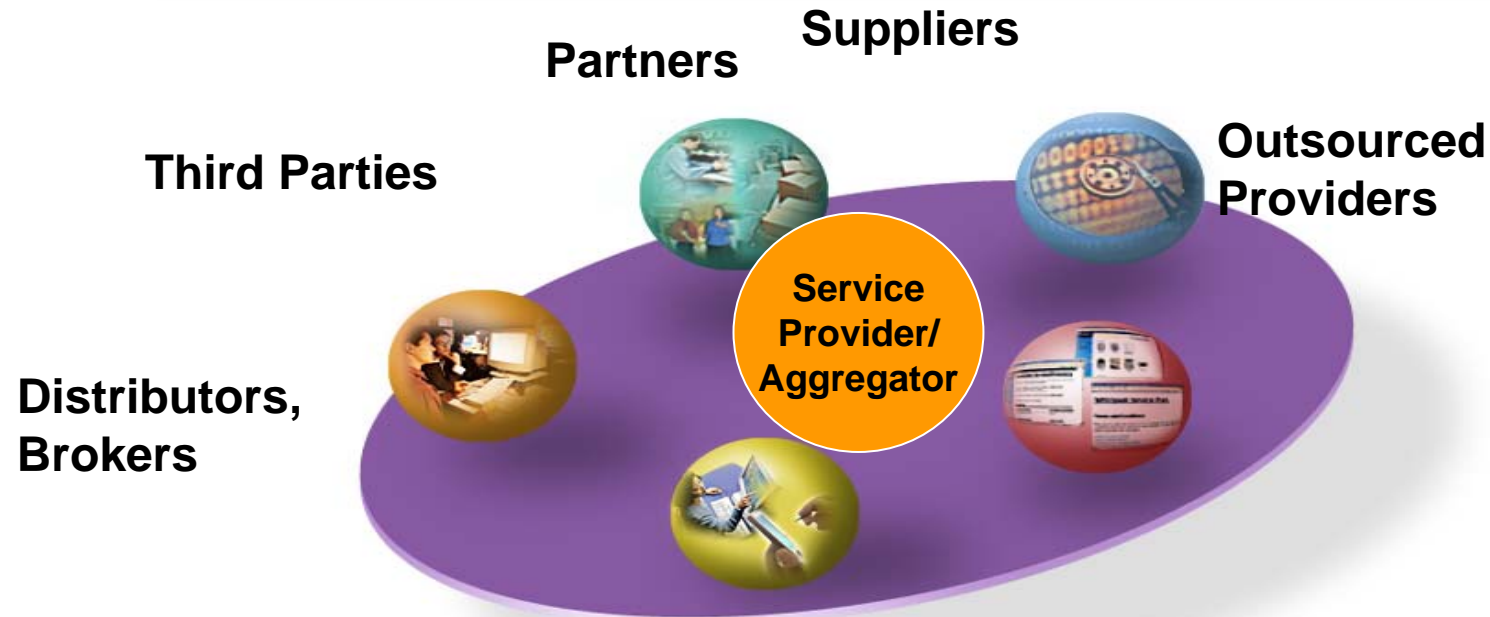
Federated Identity Management Overview



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Problem: Ineffective Identity Management



1. No standard mechanism to “trust” identities from M&A, Partners & Third Parties
2. Lack of trust means replication of creating “identity accounts”
3. Costly/Inefficient Account Management
4. Security Exposure, compliance and privacy

Federation and Federated Identity Management

A **federation** is a state comprised of a number of *self-governing* regions...
A federation is also an organisation, such as a trade union or *business*,
with a structure analogous to that of a federal state.

[Source: Wikipedia]

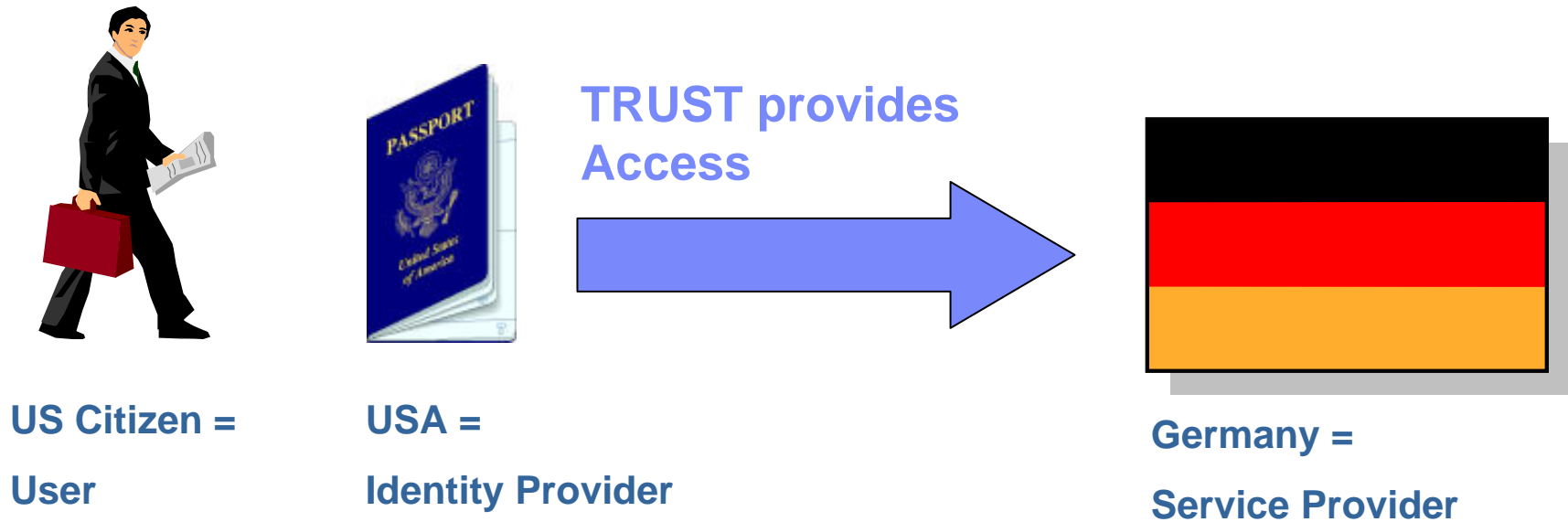
A **federation** is a group of two or more trusted business partners with
business and technical agreements which allow a user from one
federation partner (participating company) to seamlessly access resources
from another partner in a **secure** and **trustworthy** manner.

Evolution....NOT a Revolution - concept is nothing new

CREDIT CARD
STATE DRIVER LICENSE
PASSPORT



Governments as Identity Federation Partners



When a US citizen travels to Germany, Germany verifies the identity of the US citizen by checking its passport. In the online world, we don't have federation. We refer to Germany as a **Service Provider**. A "service provider" is one that "**TRUSTS**" an identification from an **Identity Provider** (USA), as proof of Identity.

Federated Identity Management

... from a business point of view:

- Federated Identity Management is the set of **business agreements, technical agreements and policies** that enable companies to partner to lower their overall identity management costs and improve user experience.

... from a technology point of view:

- User session lifecycle management
 - Single-sign-on, access control, single-sign-off
 - Identity mapping across partners
 - User information exchange
- Identity lifecycle management
 - Provisioning of users and linking of user identities
- Requires a Trust Infrastructure
 - Enables the on-line equivalent of real-world business relationships
- Enables secure application interaction
 - Users/applications are able to securely access business partner resources in a trustworthy manner



Technology, Standards and Specifications

HTTP SSO
(SAML protocol)

Identity Federation Mgt
(SAML protocol)

ID Management for
Federated Web Services
(HTTP and SOAP-based SSO)

**SAML
(Passive)**

**Liberty
(Passive)**

**WS-Federation
(Passive,Active)**

Support for various
Web Services protocols

HTTP Federation

IBM Approach – Tivoli Federated Identity Manager

- Federated Identity Management is User Lifecycle Management
 - Simplifies the administration of user management between companies
- Recognition that the foundation of a federated model is TRUST
 - Key Management, Security Token Service and WS-Trust
- Standards & Technology support
 - Liberty, SAML, WS-Federation and WS-Security Family
 - Interoperability and conformance testing
- Integration of Federated Identity across IBM middleware
 - Tivoli Access Manager, Tivoli Identity Manager, WebSphere Application Server, WebSphere Portal





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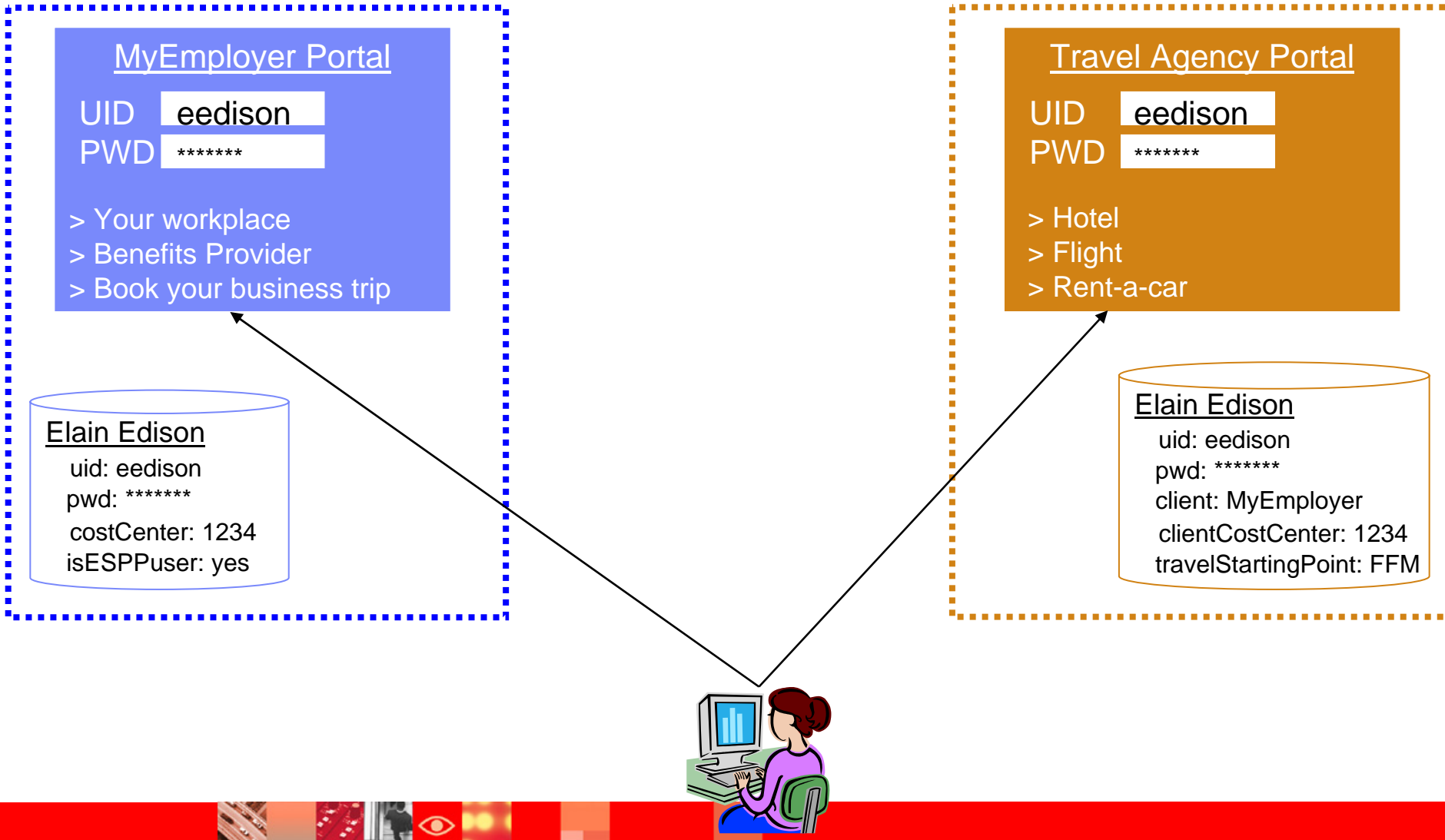
A FIM Example



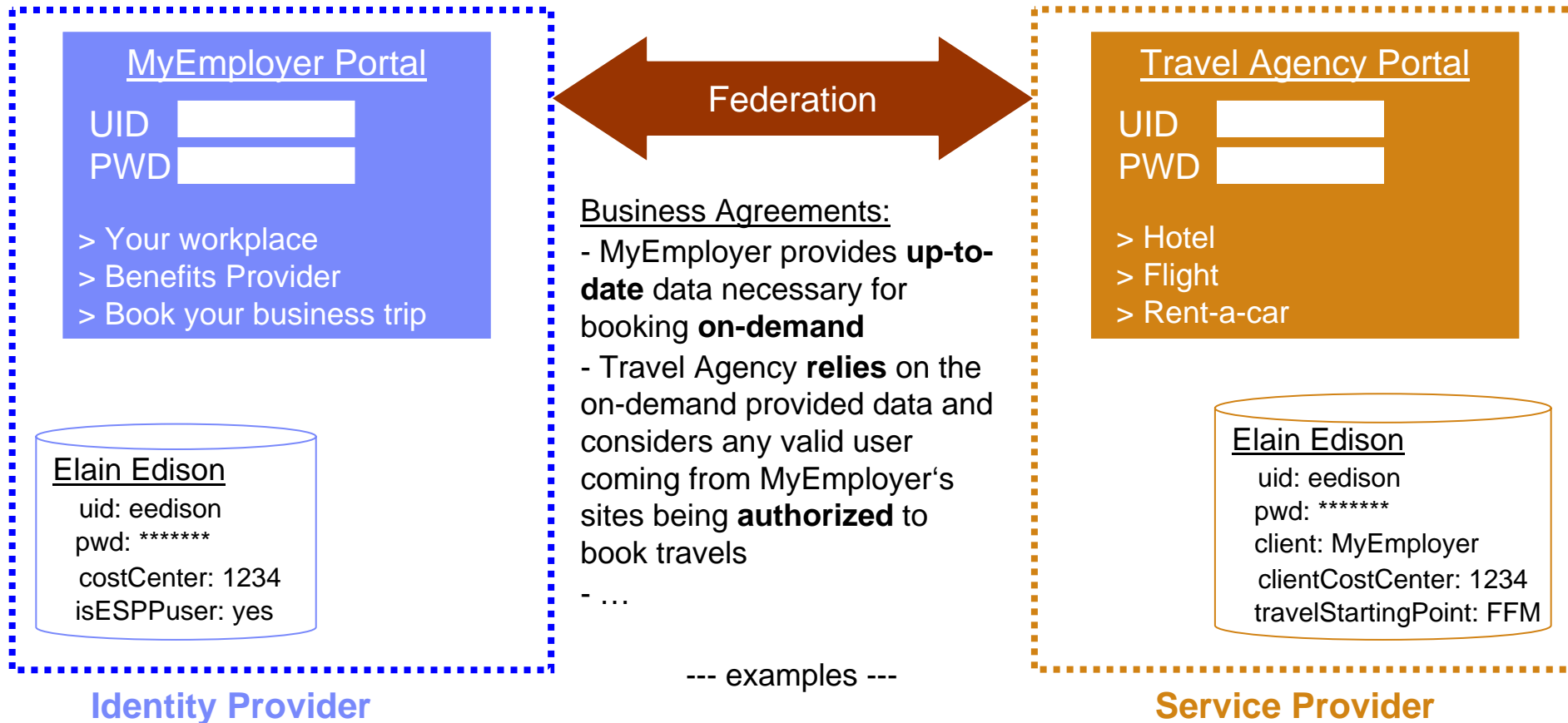
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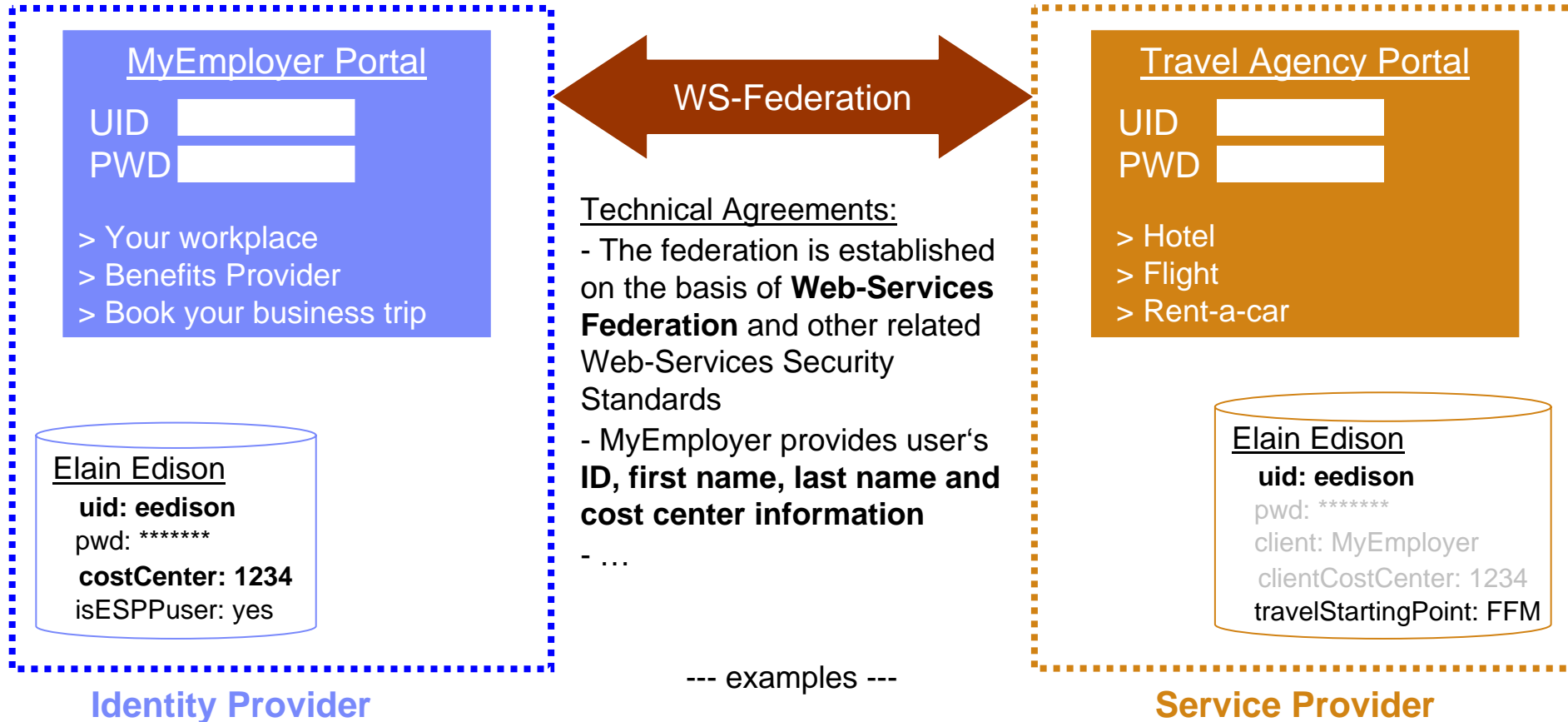
Current Situation



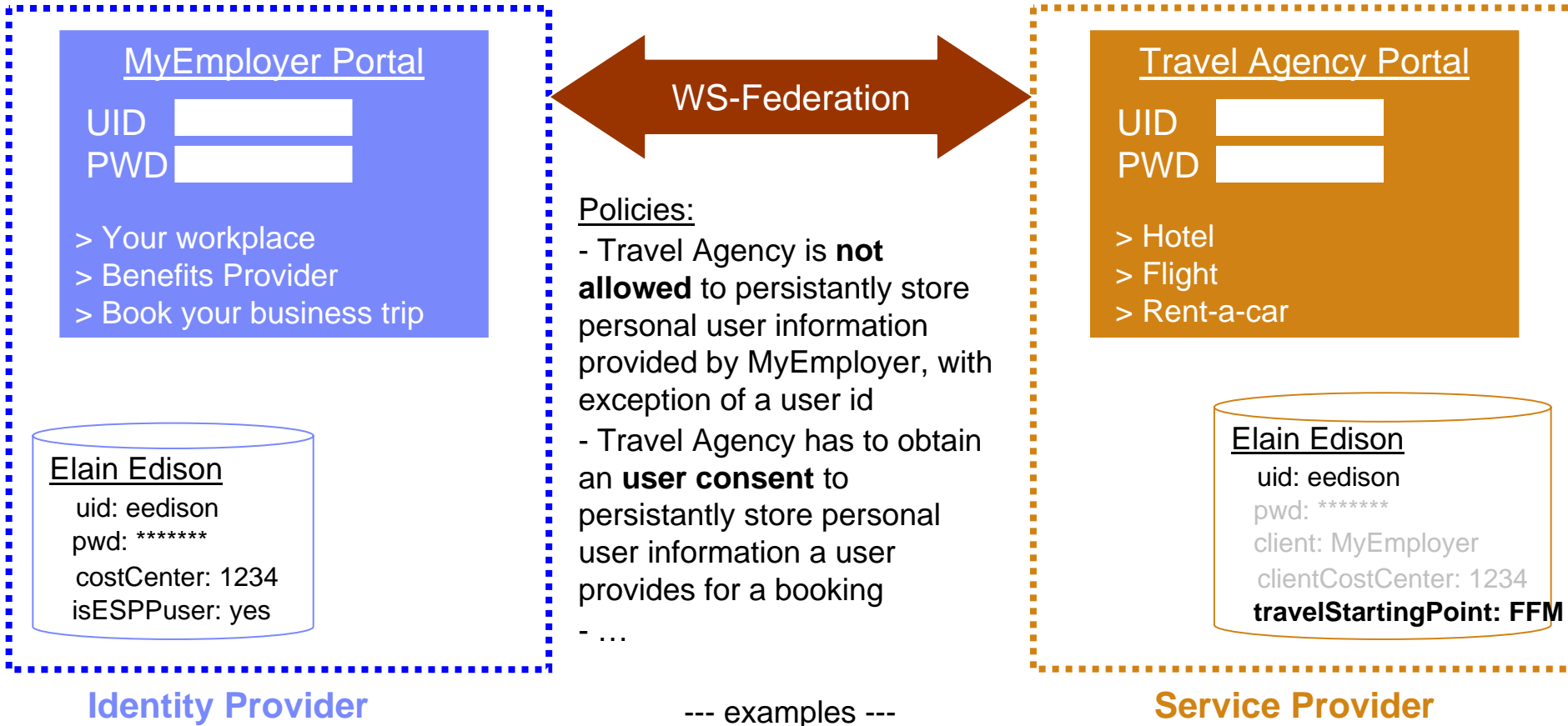
Establishing a Federation (1)



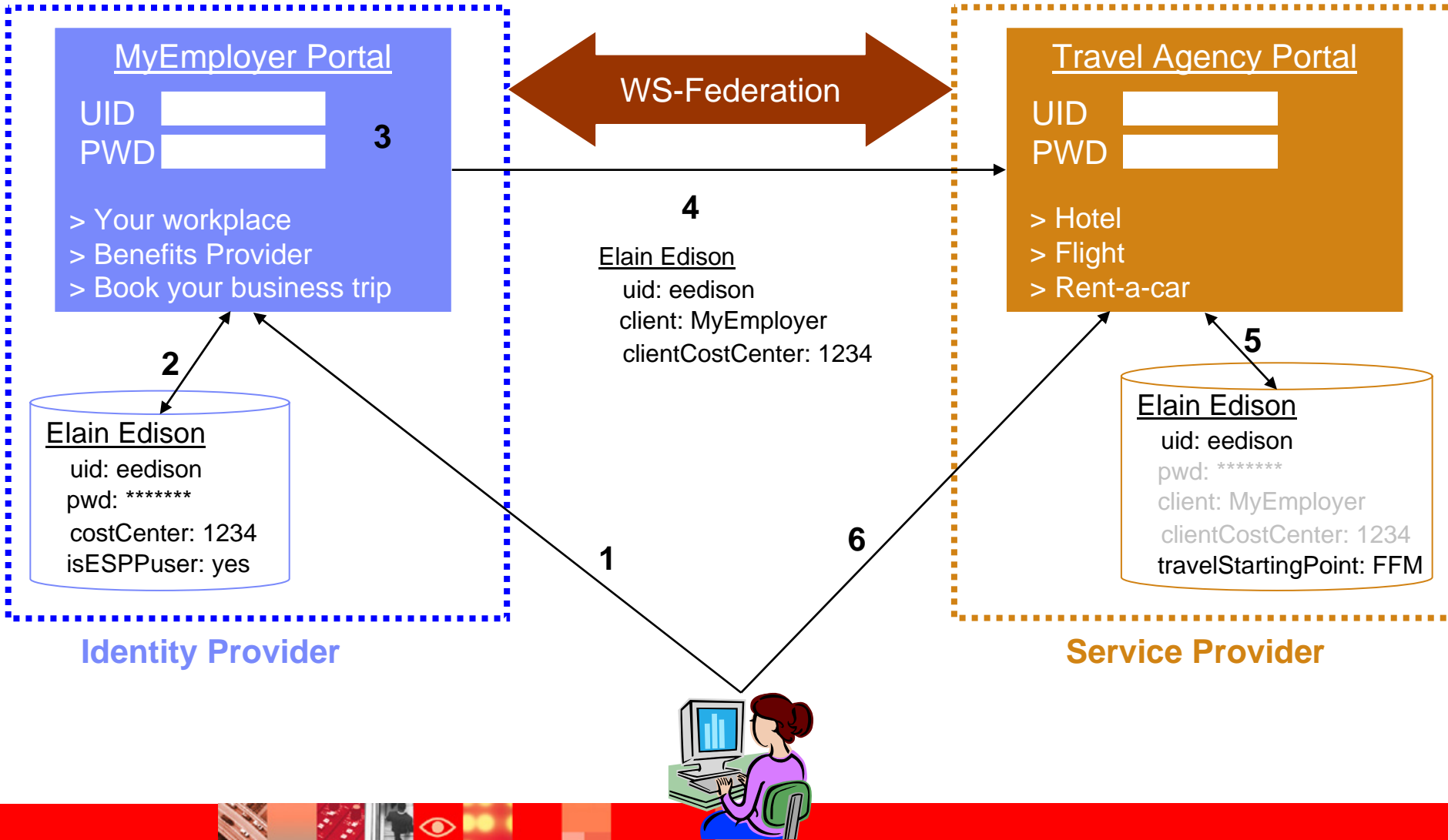
Establishing a Federation (2)



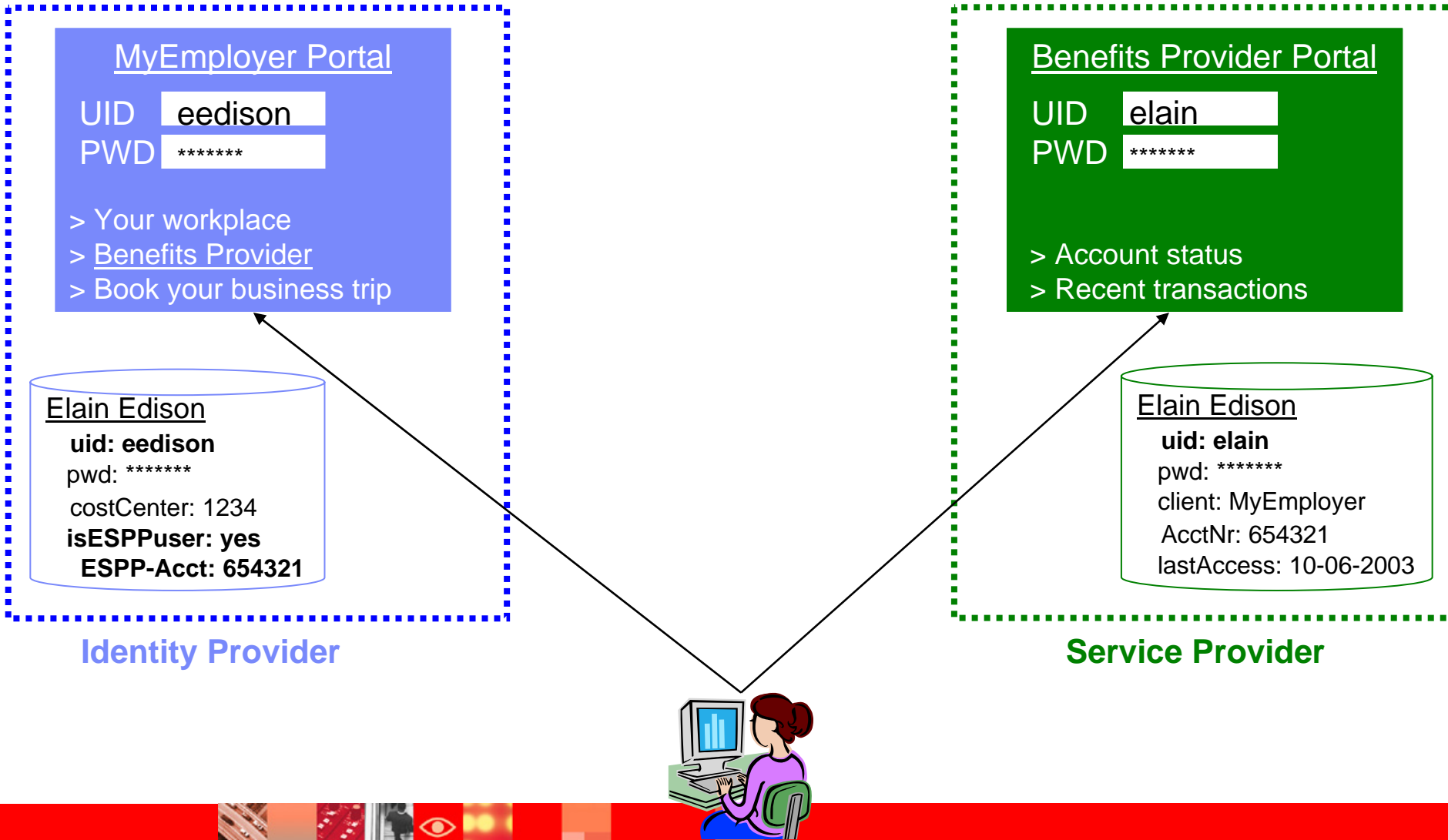
Establishing a Federation (3)



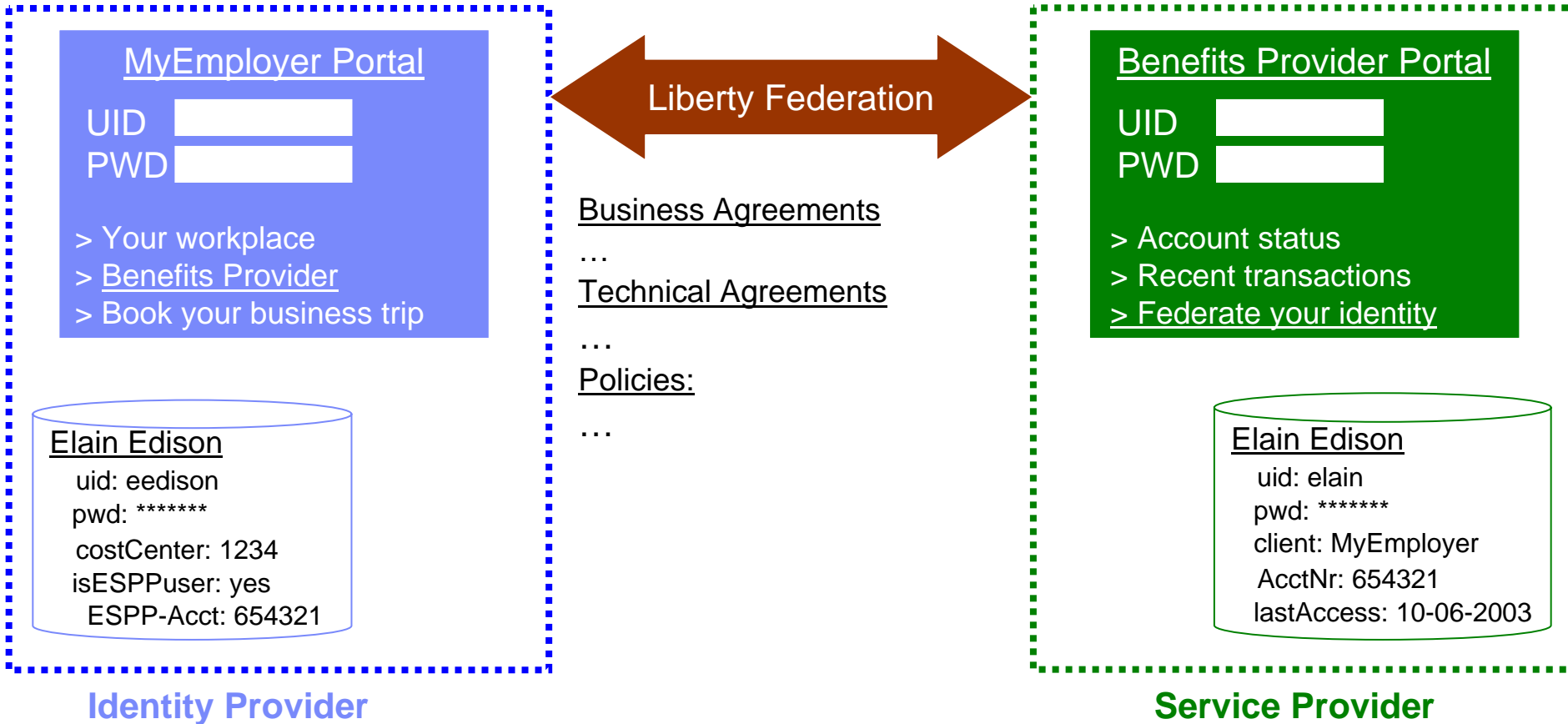
Target



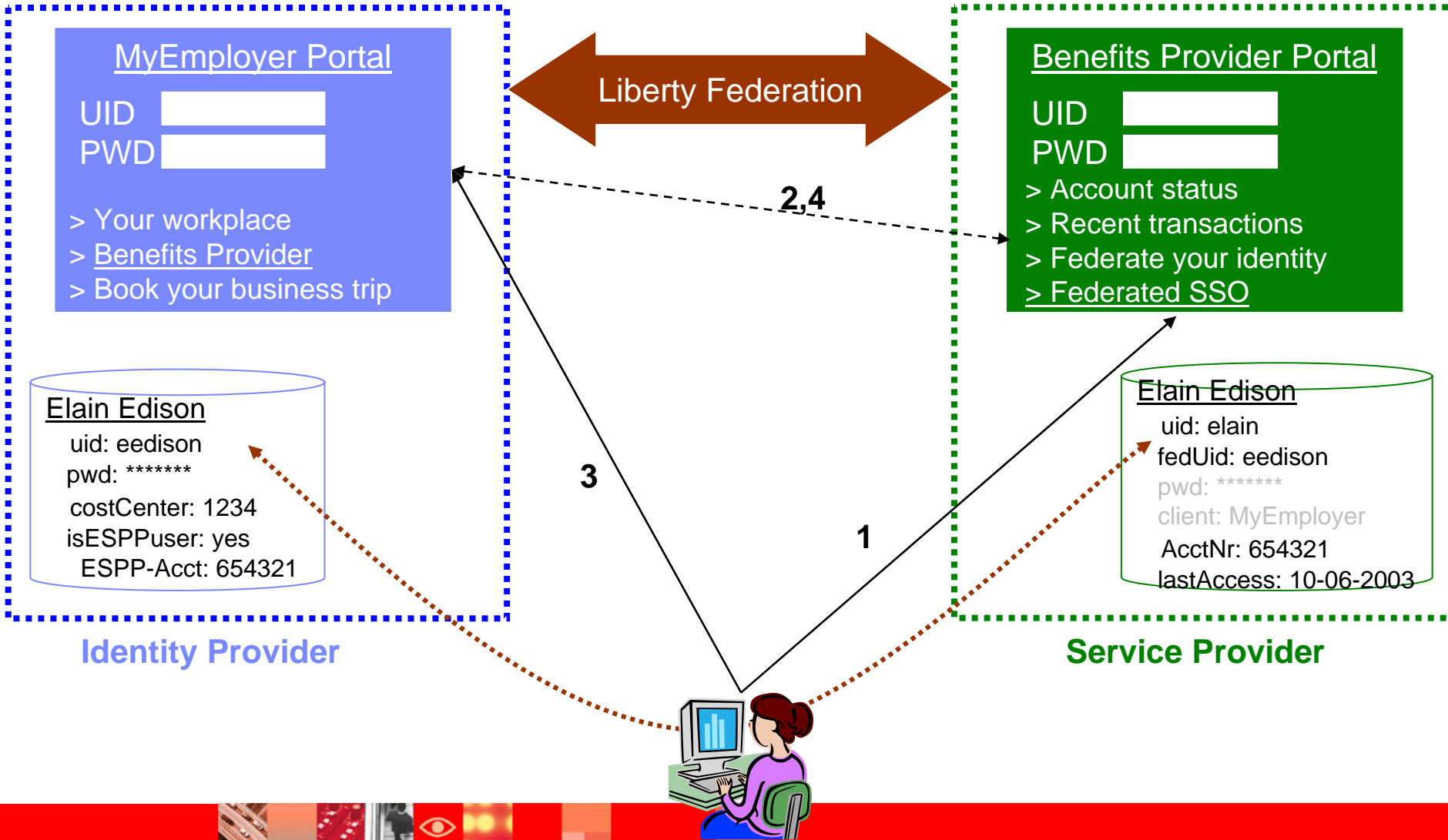
Scenario 2 – Current Situation



Establishing Federation



Scenario 2 – Demo: Login Using Federated Single Sign-on





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Danke für Ihre Aufmerksamkeit!
Für weitere Informationen besuchen Sie
<http://www.ibm.com/software/de/tivoli/security>

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 **e-business software**