

SOUNDS LIKE A JOB FOR JAMCRACKER



ITML Provisioning Overview

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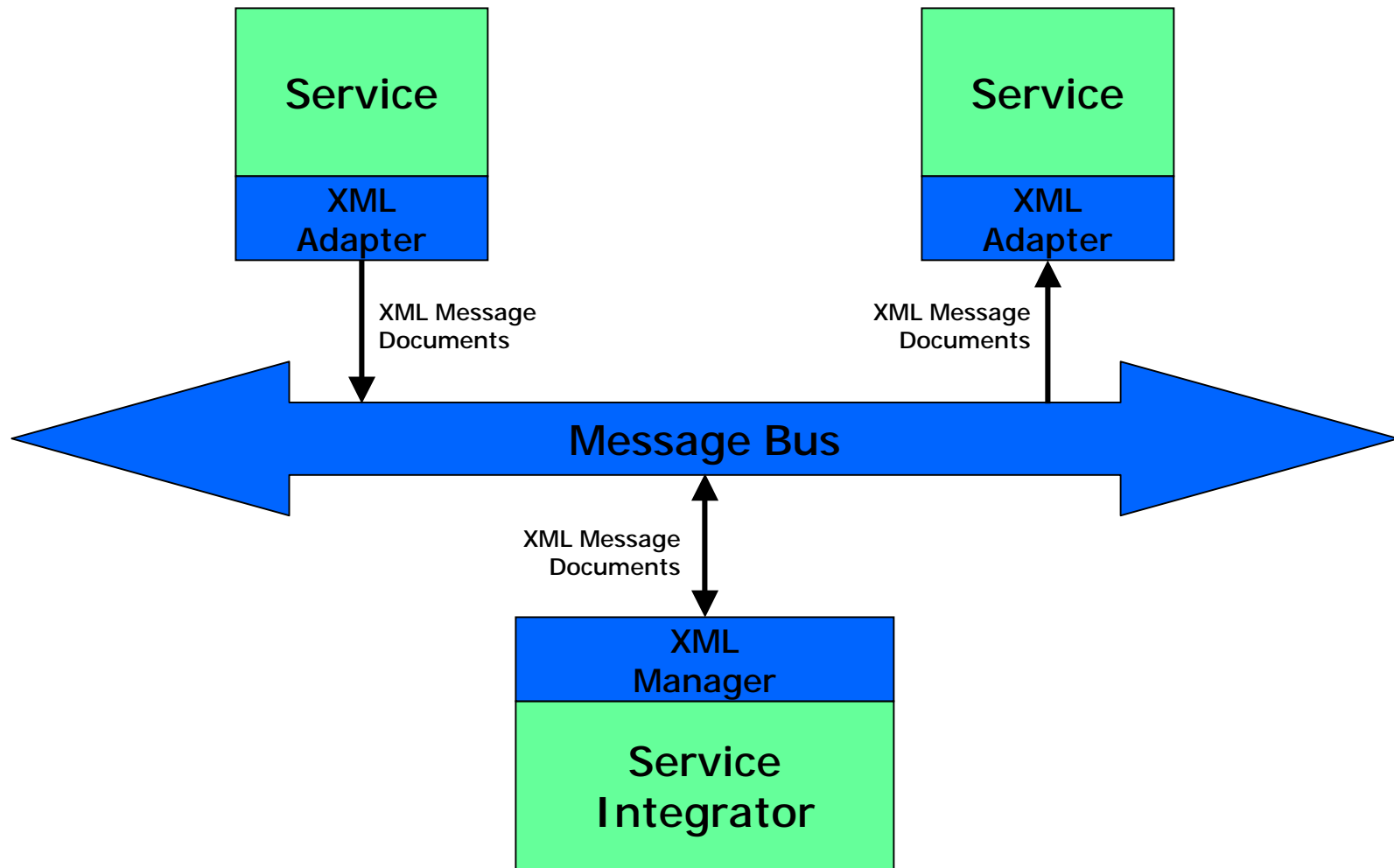
Outline

- **Business Web vision**
- **What is provisioning?**
- **Benefits**
- **ITML Provisioning Goals and Design**
- **ITML Provisioning status**
- **Relationships**
 - W3C
 - OASIS
 - UDDI
- **What an ASP is required to do**

The Business Web Vision

- **An integrated ecosystem of businesses and business processes, in a serviceable and billable manner**
- **Partners can add themselves easily to the ecosystem as either a producer of services, or as a consumer of services, or both**
- **Standardization of all aspects of integration**

Ecosystem of Services using XML



What is provisioning?

- **The process of enabling a user to access new or additional services**
- **Company Information**
 - Company Profile (Name, Location, etc)
- **User information**
 - User Profile (Name, Address, Language, Title, Dept, etc.)
 - Roles, Groups
- **User authentication information**
 - Passwords, certificates
- **User authorization information**
 - “User X is allowed to use service Y as Role Z”
- **Billing records**

Why is Jamcracker Investing in Provisioning?

- **Jamcracker realizes that a simple, standardized solution for provisioning will accelerate the ability to drive more users to services and more services to users. It is one key catalyst for the realization of a web-services based ecosystem readily accessible across the internet.**
- **To that end, Jamcracker has led the development of a standards-based specification for Provisioning: ITML Provisioning**

Provisioning benefits

- **Automate typical and repetitive user/company interactions**
 - Add, modify, delete
 - Authorize for services
- **Across an ecosystem of partners**
- **Reliably**
- **Scale to many new**
 - Companies
 - Users
 - Services
 - Providers
- **Allow Rapid Modifications**
- **Auditable**

Customers Benefits of Automated Provisioning

- **Provisioning is a key (component) facet of the ASP benefit (value proposition)**
- **Fosters more choice of services**
- **Faster addition/upgrades of services**
- **Better integration of services**
- **Flexibility in service usage**
- **Flexibility in billing for services**
- **Other “betters”**
 - Security, Data integrity, response time

ASP Benefits of Automated Provisioning

- **Simple, robust, and easy to implement**
- **Faster and cheaper integration into ASP ecosystem**
 - enabling faster access to new customers
- **Tested and proven process**
- **Growing momentum**

ITML Provisioning Goals

ITML provisioning is a set of web services

- **Provide secure and reliable user and company information synchronization in an ASP ecosystem**
- **Enable or delete Users, companies, services for users, and services for companies across the ASP ecosystem**
- **Leverage web service standards**
- **Secure**

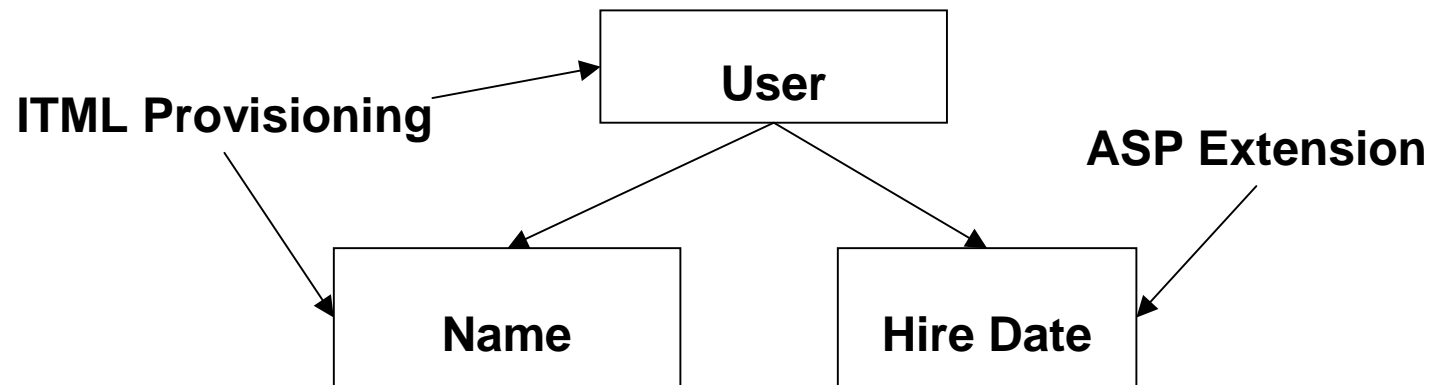
ITML Provisioning Design goals

- **Industry standard technologies will be used**
 - XML, SOAP, XML Schema, and HTTP(s)
- **The set of elements and operations shall be as small as possible**
- **The elements and operations will be easily extensible**
 - Easily add specific data elements for each ASP
- **The elements will be globalization ready**
- **Security is robust and easily available**

ITML Provisioning framework

- **Often ASPs require specific data**
 - Date of Hire, SSN, etc.
- **ITML Provisioning provides for extension of data**
- **Based upon XML Schema wildcard mechanism**
- **Also provides for extension of responses from ASPs**
 - For example, an ASP requires use of a different URL for requests on behalf of each company
 - `http://asp.com/companyX`; `http://asp.com/companyY`

Extension mechanism



● **Sample:**

```
<AddUser>
  <User>
    <Name>David</Name>
    <Extension>
      <HireDate>5/1/2001</HireDate>
    </Extension>
  </User>
</AddUser>
```

ITML Provisioning Messages

- **ITML Provisioning uses the ITML Message and Protocol (M&P) specification**
- **M&P defines the rules for sending/receiving ITML Provisioning messages**
 - HTTP
 - Security
 - Similar to ebXML Transport and Routing Protocol
- **Other ITML Specifications use M&P**
 - ITML Session Management
- **Authorization of Jamcracker is either username/password or PKI-lite**
 - PKI-lite built into ITML Integration Toolkit

ITML Provisioning status

- IBSI members have extensively reviewed it
- IBSI has adopted it as the user and company provisioning specification for its members
- Jamcracker and OpenAir in the IBSI have implemented the specification
- Jamcracker and OpenAir have a production and a test environment
- Jamcracker provides an ITML Provisioning software toolkit, that helps java based partners integrate with provisioning
- There is a strong commitment of resources and effort from Jamcracker, OpenAir, IBSI, and partners.

Relationship to W3C

- **ITML Provisioning layers upon core XML standards**
- **XML**
- **SOAP**
 - Messages flows are defined using SOAP
- **XML Schema**
 - All the data types and messages are XML Schema defined
 - Many data types – Dates, strings, URIs, ...
 - Modular
 - 1 document for Provisioning *structures*
 - 1 document for Provisioning *methods*
 - Extension mechanism
- **HTTP(s)**

Relationship to ebXML

- **Derived from ebXML Core components**
- **Simplification involved removing required UUIDs, many components**
- **Augmented to define actions**
- **Used SOAP before ebXML**

Relationship to UDDI

- **ITML Provisioning will be defined using WSDL**
- **Stored in a UDDI repository**
- **UDDI constructs to describe provisioning**
 - How does a business get users provisioned?
 - How does a web service get provisioned?

Future standardization

- **Currently standardized through IBSI**
- **Could be standardized through OASIS**
 - Or other body
- **It may (probably) adopt authentication and authorization standards when they become ready**
 - Expected to be OASIS SAML

What an ASP has to do

- **Determine if it requires data for users and companies above and beyond the ITML Provisioning core data**
 - If yes, define the extension Schema.
- **Implement the partner side of the ITML Provisioning messages.**
- **Publish test configuration information**
 - Typical test items are URLs, usernames, passwords
 - In future this could be a WSDL definition
- **Install configuration on test system**
- **Test**
- **Publish production configuration information**

For More Information

- Visit <http://www.itml.org>
- This presentation
- ITML Provisioning specification
- ITML Provisioning integration toolkit

ITML Provisioning Summary

- **Automated Provisioning of users, companies is key for Service Providers to rapidly grow customer and user base**
- **ITML Provisioning is a widely accepted specification for doing this**