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

Service
XML Adapter

Message Bus
XML Manager
Service Integrator

Service
XML Adapter

XML Message Documents

XML Message Documents

XML Message Documents
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
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