Universal Security Service Platform Technology for Protecting e-Identity

Introduction

We develop an universal security service platform technology for protecting e-Identity. This technology provides single ID management/internet SSO/privacy protection/integrated audit/ID bridge functions for adapting secure and comport ID services to various electronic transactions such as eGovernment or eCommerce.

- Internet ID management technology
- Web services-based secure ID information sharing technology
- ID federation bridging technology

Architecture

Application Area

- eCommerce : online shopping mall, portal site
- Banking service : internet banking, online credit card
- Public service : eGovernment, electronic citizen, public organization
- Other application : eMedical, eTrade, communication service
Deployment Environment of Internet ID management Service

Services
- ID Federation
- ID Management
- ID Web Services Framework
- Privacy Protection
- Web Single Sign-On
- Information Lookup
- Discovery Service
- Privacy Policy Generation

Deployment

Operating Environment
- Operating System: MS-Windows, Linux
- Programming Language: Java 2.0
- Database: Oracle 9i
- Web Server: Jakarta-Tomcat 5.0

Contact
Information Security Division
Digital ID Security Research Team
Seung-Hyun Kim, ayo@etri.re.kr
Universal Security Service Platform Technology for Protecting e-Identity

Services

- Web Services Framework – sharing ID information
- Privacy Controller – controlling the share of privacy information sharing
  - SAML v2.0
  - Discovery service for ID information
  - Authorization query for privacy information
  - ID federation bridge
  - ID information sharing
  - Control model for sharing of privacy information
  - Interaction query
  - Enhanced Client

Software Stack

Outstanding

- 1st Certified OASIS SAML v2.0 from Liberty Alliance
- Online demo system and technical standard for protecting Korean Registration Number
- Reference Site: Integrated ID Management System for Public Organizations in Daejeon Metropolitan
Integrated ID Management System for Public Organization in Daejeon Metropolitan

Outline
- Inter-connection of the 21th sites including 5 district office in Daejeon metropolitan
- Adapting the ‘Internet ID Management Service System’ developed by ETRI (Electronics and Telecommunication Research Institute)

Architecture

Outline
- Inter-connection of the 21th sites including 5 district office in Daejeon metropolitan
- Adapting the ‘Internet ID Management Service System’ developed by ETRI (Electronics and Telecommunication Research Institute)

Architecture

Outline
- Inter-connection of the 21th sites including 5 district office in Daejeon metropolitan
- Adapting the ‘Internet ID Management Service System’ developed by ETRI (Electronics and Telecommunication Research Institute)

Architecture

Outline
- Inter-connection of the 21th sites including 5 district office in Daejeon metropolitan
- Adapting the ‘Internet ID Management Service System’ developed by ETRI (Electronics and Telecommunication Research Institute)

Services and Technologies

<table>
<thead>
<tr>
<th>Services</th>
<th>Technologies</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID Federation and Web SSO</td>
<td>SAML v2.0</td>
</tr>
<tr>
<td>Providing and notification of ID information</td>
<td>SAML v2.0, ID-WSF v2.0</td>
</tr>
<tr>
<td>Protection (Management) of privacy information</td>
<td>ID-WSF v2.0, XACML v1.1</td>
</tr>
<tr>
<td>Alternation of Korean Registration Number</td>
<td>SAML v2.0, ID-WSF v2.0</td>
</tr>
</tbody>
</table>