


Federal Information Processing Standards Publication 190, Guideline for The Use of Advanced Authentication Technology Alternatives, National Institute of Standards and Technology, 1994


Han Tao, A XACML-based access control model for Web service, International Conference on Wireless Communications, Networking and Mobile Computing (WiCOM 2005), Wuhan, China, pp 1140-1144, 2005

Jake Wu, Panos Periorellis. CS-TR: 907 Authorization-Authentication Using XACML and SAML, School of Computing Science, Newcastle University, 2005


X. Wang, G. Zhao, X. Zhang, Beihong Jin, “An Agent-Based Model For Web Services Transaction Processing”, Proceedings of International Conference on e-Technology, e-Commerce and e-Service (EEE'05), Beijing, China, 2005


OASIS: Advancing Open Standards for the information society (http://www.oasis-open.org/home/index.php)

Security Assertion Markup Language (SAML) (http://xml.coverpages.org/saml.html)

Sun's XACML Implementation (http://sunxacml.sourceforge.net/)
ภาคผนวก
ภาคผนวก ก

ตัวอย่างการกำหนดความสัมพันธ์ระหว่างชื่อผู้ใช้และบทบาทแบบ Rule-Based

<table>
<thead>
<tr>
<th>Rule</th>
<th>User</th>
<th>Role</th>
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<tbody>
<tr>
<td>Rule.1</td>
<td>User1</td>
<td>Operator1</td>
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<td>Rule.2</td>
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<td>Operator3</td>
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ภาคผนวก ข

ตัวอย่างการกำหนดสิทธิเข้าใช้งานแบบ Rule-Based

<table>
<thead>
<tr>
<th>Rule</th>
<th>Role</th>
<th>Privilege</th>
<th>ConstraintType</th>
<th>ConstraintValue</th>
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<tbody>
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<tr>
<td>14</td>
<td>Operator3</td>
<td>Settlement</td>
<td>time</td>
<td>1100 - 1900</td>
</tr>
<tr>
<td>14</td>
<td>Operator3</td>
<td>Settlement</td>
<td>event</td>
<td>amount &lt; 1000000</td>
</tr>
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<td>Administrator</td>
<td>ApproveTransaction</td>
<td>time</td>
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<td>ViewLog</td>
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<td>ViewAuditLog</td>
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ภาคผนวก C

ตัวอย่างการกำหนดความสัมพันธ์ระหว่างชื่อผู้ใช้และบทบาทแบบ XML

```xml
<Policy>
  <Rule id="1">
    <User>user1</User>
    <Role>Registration Authority Operator1</Role>
  </Rule>
  <Rule id="2">
    <User>user2</User>
    <Role>Registration Authority Operator2</Role>
  </Rule>
  <Rule id="3">
    <User>user3</User>
    <Role>Key Recovery Operator</Role>
  </Rule>
  <Rule id="4">
    <User>user4</User>
    <Role>Registration and Recovery Operator</Role>
  </Rule>
  <Rule id="5">
    <User>user5</User>
    <Role>Registration Authority Operator1</Role>
  </Rule>
  <Rule id="6">
    <User>user6</User>
    <Role>Registration Authority Operator2</Role>
  </Rule>
</Policy>
```
<Rule id="7">
  <User>user7</User>
  <Role>Key Recovery Operator</Role>
</Rule>

<Rule id="8">
  <User>user8</User>
  <Role>Registration and Recovery Operator</Role>
</Rule>

<Rule id="9">
  <User>user9</User>
  <Role>Registration Authority Operator1</Role>
</Rule>

<Rule id="10">
  <User>user10</User>
  <Role>Registration Authority Operator2</Role>
</Rule>

<Rule id="11">
  <User>user11</User>
  <Role>Key Recovery Operator</Role>
</Rule>

<Rule id="12">
  <User>user12</User>
  <Role>Registration and Recovery Operator</Role>
</Rule>

<Rule id="13">
  <User>user13</User>
  <Role>Registration Authority Operator1</Role>
</Rule>
<Rule id="14">
    <User>user14</User>
    <Role>Registration Authority Operator2</Role>
</Rule>

<Rule id="15">
    <User>user15</User>
    <Role>Key Recovery Operator</Role>
</Rule>

<Rule id="16">
    <User>user16</User>
    <Role>Registration and Recovery Operator</Role>
</Rule>

<Rule id="17">
    <User>user17</User>
    <Role>Registration Authority Operator1</Role>
</Rule>

<Rule id="18">
    <User>user18</User>
    <Role>Registration Authority Operator2</Role>
</Rule>

<Rule id="19">
    <User>user19</User>
    <Role>Key Recovery Operator</Role>
</Rule>

<Rule id="20">
    <User>user20</User>
    <Role>Registration and Recovery Operator</Role>
</Rule>

</Policy>
ภาคผนวก ง
ตัวอย่างการกำหนดสิทธิเข้าใช้งานแบบ XML

```xml
<Policy>
  <Rule id="1">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Issue</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.1</ConstraintValue>
  </Rule>
  <Rule id="2">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Issue</Privilege>
    <ConstraintType>time</ConstraintType>
    <ConstraintValue>0800 - 1700</ConstraintValue>
  </Rule>
  <Rule id="3">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Suspend</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.1</ConstraintValue>
  </Rule>
  <Rule id="4">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Unsuspend</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.1</ConstraintValue>
  </Rule>
</Policy>
```
<Rule id="5">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Unsuspend</Privilege>
    <ConstraintType>time</ConstraintType>
    <ConstraintValue>0800 - 1700</ConstraintValue>
</Rule>

<Rule id="6">
    <Role>Registration Authority Operator1</Role>
    <Privilege>Revoke</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.1</ConstraintValue>
</Rule>

<Rule id="7">
    <Role>Registration Authority Operator2</Role>
    <Privilege>Issue</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.2</ConstraintValue>
</Rule>

<Rule id="8">
    <Role>Registration Authority Operator2</Role>
    <Privilege>Issue</Privilege>
    <ConstraintType>time</ConstraintType>
    <ConstraintValue>1100 – 2000</ConstraintValue>
</Rule>

<Rule id="9">
    <Role>Registration Authority Operator2</Role>
    <Privilege>Suspend</Privilege>
    <ConstraintType>location</ConstraintType>
    <ConstraintValue>192.168.71.2</ConstraintValue>
</Rule>
<Rule id="10">
  <Role>Registration Authority Operator2</Role>
  <Privilege>Unsuspend</Privilege>
  <ConstraintType>location</ConstraintType>
  <ConstraintValue>192.168.71.2</ConstraintValue>
</Rule>

<Rule id="11">
  <Role>Registration Authority Operator2</Role>
  <Privilege>Unsuspend</Privilege>
  <ConstraintType>time</ConstraintType>
  <ConstraintValue>1100 – 2000</ConstraintValue>
</Rule>

<Rule id="12">
  <Role>Registration Authority Operator2</Role>
  <Privilege>Revoke</Privilege>
  <ConstraintType>location</ConstraintType>
  <ConstraintValue>192.168.71.2</ConstraintValue>
</Rule>

<Rule id="13">
  <Role>Key Recovery Operator</Role>
  <Privilege>Recovery</Privilege>
  <ConstraintType>time</ConstraintType>
  <ConstraintValue>0800 – 2000</ConstraintValue>
</Rule>

<Rule id="14">
  <Role>Key Recovery Operator</Role>
  <Privilege>Recovery</Privilege>
  <ConstraintType>event</ConstraintType>
</Rule>
<ConstraintValue>amount_cert less-than 5</ConstraintValue>
</Rule>

<Rule id="15">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Issue</Privilege>
  <ConstraintType>time</ConstraintType>
  <ConstraintValue>0800 – 2000</ConstraintValue>
</Rule>

<Rule id="16">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Suspend</Privilege>
  <ConstraintType>time</ConstraintType>
  <ConstraintValue>0800 – 2000</ConstraintValue>
</Rule>

<Rule id="17">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Unsuspend</Privilege>
  <ConstraintType>time</ConstraintType>
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<Rule id="18">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Revoke</Privilege>
  <ConstraintType>time</ConstraintType>
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</Rule>

<Rule id="19">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Recovery</Privilege>
</Rule>
<Rule id="20">
  <Role>Registration and Recovery Operator</Role>
  <Privilege>Recovery</Privilege>
  <ConstraintType>event</ConstraintType>
  <ConstraintValue>amount_cert less-than 10</ConstraintValue>
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</Policy>
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