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# Common Virtual Organization Attribute Profile version 1.0

The EMI Common VO attribute profile defines the representation of VO membership attributes as SAML attributes.

## Required information

**Identification:** <http://dci-sec.org/saml/profile/virtual-organization/1.0>

**Contact information:** [emi-jral-sec-saml@eu-emiNOSPAMPLEASE.eu](mailto:emi-jral-sec-saml@eu-emiNOSPAMPLEASE.eu)

**Description:** Given below.

**Updates:** None.

## SAML Attribute naming

The NameFormat XML attribute in <Attribute> elements MUST be

`urn:oasis:names:tc:SAML:2.0:attrname-format:uri`

## Attribute name comparison

Two <Attribute> elements refer to the same SAML attribute if and only if their Name XML attribute values are equal in the sense of URI matching rules (RFC 3986 [3](#)).

## Profile specific XML attributes

No additional XML attributes are defined for use with the <Attribute> element.

## Profile specific XML data types

The following XML schema types are used in this profile

```
<?xml version="1.0" encoding="UTF-8"?>
<schema
  targetNamespace="http://dci-sec.org/saml/profile/virtual-organization/1.0"
  elementFormDefault="qualified" xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:dci-sec="http://dci-sec.org/saml/profile/virtual-organization/1.0">

  <annotation>
    <documentation></documentation>
  </annotation>

  <attribute name="scope" type="xsd:string"/>

</schema>
```

## Attribute definitions

## Virtual organization (VO)

This multi-valued attribute represents the SAML assertion subject's virtual organization membership.

**Name:** <http://dci-sec.org/saml/attribute/virtual-organization>

The <AttributeValue> elements (of type `xsd:string`) define the name of the VO the subject is member of.

### Example:

```
<Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri" Name="http://dci-sec.org/
  <AttributeValue xsi:type="xsd:string">atlas</AttributeValue>
  <AttributeValue xsi:type="xsd:string">example.vo.org</AttributeValue>
</Attribute>
```

### Constraints:

- The VO attribute value MUST respect the following grammar:

```
voname ::= [a-zA-Z0-9][a-zA-Z0-9_.-]*
```

## Groups

This multi-valued attribute represents the SAML assertion subject's VO group membership.

**Name:** <http://dci-sec.org/saml/attribute/group>

The <AttributeValue> elements (of type `xsd:string`) define the VO groups the subject is member of.

### Example:

```
<Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri" Name="http://dci-sec.org/
  <AttributeValue xsi:type="xsd:string">/atlas</AttributeValue>
  <AttributeValue xsi:type="xsd:string">/atlas/it</AttributeValue>
</Attribute>
```

### Constraints:

- Each group attribute value MUST respect the following grammar:

```
group ::= '/' groupname | group '/' groupname
groupname ::= [a-zA-Z0-9][a-zA-Z0-9_.-]*
```

- The first path element of each group must be equal to the VO name, i.e., if the VO name is `atlas` each group must start with the path `/atlas`.

## Primary group

This single-valued attribute represents the SAML assertion subject's primary group membership.

**Name:** <http://dci-sec.org/saml/attribute/group/primary>

The <AttributeValue> element (of type `xsd:string`) defines the primary group for the subject.

### Constraints:

Virtual organization (VO)

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- The value expressed by this attribute **MUST** also appear in the `http://dci-sec.org/saml/attribute/group` attribute included in the SAML assertion.
- All the constraints defined for the `http://dci-sec.org/saml/attribute/group` attribute are to valid also for this attribute.

### Example:

```
<Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri" Name="http://dci-sec.org/
  <AttributeValue xsi:type="xsd:string">/atlas/it</AttributeValue>
</Attribute>
```

## Roles

This multi-valued attribute represents the roles assigned to the subject.

**Name:** <http://dci-sec.org/saml/attribute/role>

The `<AttributeValue>` elements (of type `xsd:string`) define the roles the subject is member of. Each `<AttributeValue>` **MUST** be scoped to a group using the `dci-sec:scope` attribute.

### Constraints:

- Each role attribute value **MUST** respect the following grammar:

```
rolename ::= [a-zA-Z0-9][a-zA-Z0-9_.-]*
```

- The value of the `dci-sec:scope` attribute must respect the grammar defined for group names, i.e.:

```
group ::= '/' groupname | group '/' groupname
groupname ::= [a-zA-Z0-9][a-zA-Z0-9_.-]*
```

- The group pointed by the `dci-sec:scope` attribute must appear in the `http://dci-sec.org/saml/attribute/group` attribute included in the SAML assertion.

### Example:

```
<Attribute
  NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"
  Name="http://dci-sec.org/saml/attribute/role">

  <AttributeValue
    xsi:type="xsd:string"
    dci-sec:scope="/atlas/it">lsgadmin</AttributeValue>

</Attribute>
```

## Primary role

This single-valued attribute represents the SAML assertion subject's primary role membership.

**Name:** <http://dci-sec.org/saml/attribute/role/primary>

The `<AttributeValue>` element (of type `xsd:string`) defines the primary role for the subject. The `<AttributeValue>` **MUST** be scoped to a group, using the `dci-sec:scope` attribute.

**Constraints:**

- All the constraints specified for the `http://dci-sec.org/saml/attribute/role` attribute values apply to this attribute.
- The value expressed by this attribute **MUST** also appear in the `http://dci-sec.org/saml/attribute/role` attribute included in the SAML assertion.

**Example:**

```
<Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri" Name="http://dci-sec.org/  
  <AttributeValue  
    xsi:type="xsd:string"  
    dci-sec:scope="/atlas/it">lcgadmin</AttributeValue>  
</Attribute>
```

-- AndreaCeccanti - 03-May-2011

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This topic: EMI > CommonSAMLProfileV1\_0\_1  
Topic revision: r4 - 2011-05-03 - AndreaCeccantiExCern



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