SAML V2.0 Metadata Extensions for
Login and Discovery User Interface
Version 1.0

Committee Specification Draft 01

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v1.0.html
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Technical Committee:

OASIS Security Services (SAML) TC

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Related Work:

This specification defines extensions for use with SAML V2.0 Metadata [SAML2Meta].
XML Schema: sstc-saml-metadata-ui-v1.0.xsd
Declared XML Namespace(s):
urn:oasis:names:tc:SAML:metadata:ui

Abstract:
This document defines a set of extensions to SAML metadata that provide information necessary for user agents to present effective user interfaces and, in the case of identity provider discovery, recommend appropriate choices to the user.

Status:
This document was last revised or approved by the OASIS Security Services TC on the above date. The level of approval is also listed above. Check the "Latest Version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at http://www.oasis-open.org/committees/security/.

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1 Introduction

SAMLV2.0 metadata [SAML2Meta] provides a mechanism for expressing information necessary for SAML entities to successfully communicate with each other. However in most SAML profiles there is also a user agent involved, usually representing an actual person, that also participates in the profiled message exchanges. This document defines a set of extensions to metadata that provide information necessary for user agents to present effective user interfaces and, in the case of identity provider discovery, provide for recommendation of appropriate choices to the user.

There are existing, though incomplete, metadata elements that carry some of this information, but existing practice around their use is inconsistent, and defining extensions with more well-defined semantics is less disruptive to existing metadata deployments.

1.1 Terminology and Notation

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in IETF RFC 2119. These keywords are thus capitalized when used to unambiguously specify requirements over protocol and application features and behavior that affect the interoperability and security of implementations. When these words are not capitalized, they are meant in their natural-language sense.

Conventional XML namespace prefixes are used throughout the listings in this specification to stand for their respective namespaces as follows, whether or not a namespace declaration is present in the example:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>XML Namespace</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>md:</td>
<td>urn:oasis:names:tc:SAML:2.0:metadata</td>
<td>This is the SAML V2.0 metadata namespace defined in the SAML V2.0 metadata specification [SAML2Meta].</td>
</tr>
<tr>
<td>mdui:</td>
<td>urn:oasis:names:tc:SAML:metadata:ui</td>
<td>This is the SAML V2.0 metadata extension namespace defined by this document and its accompanying schema [MetaUI-XSD].</td>
</tr>
<tr>
<td>xsd:</td>
<td><a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a></td>
<td>This namespace is defined in the W3C XML Schema specification [Schema1]. In schema listings, this is the default namespace and no prefix is shown.</td>
</tr>
</tbody>
</table>

This specification uses the following typographical conventions in text: <ns:Element>, Attribute, Datatype, OtherCode.

This specification uses the following typographical conventions in XML listings:

Listings of XML schemas appear like this.

Listings of XML examples appear like this. These listings are non-normative.

1.2 Normative References

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors/Editors</th>
<th>Status</th>
<th>Link</th>
</tr>
</thead>
</table>
2 Metadata Extensions for Login and Discovery User Interface

2.1 User Interface Information

The user interface extension elements are oriented towards the requirements of user agent presentation of entities represented by SAML metadata, typically as part of identity provider discovery or representing services requesting information from a user's identity provider. The specifics of such presentation and the use of the elements that follow is not in scope for this specification, but communities of use SHOULD establish guidelines and even proscriptive requirements to encourage consistency and understandability for users.

The `<mdui:UIInfo>` container element, defined below, MUST appear within the `<md:Extensions>` element of a role element (one whose type is based on `<md:RoleDescriptorType>`). The use of the `<mdui:UIInfo>` element, or any other element defined in this section, outside of that context is not defined by this specification.

Finally, this element MUST NOT appear more than once within a given `<md:Extensions>` element.

2.1.1 Element `<mdui:UIInfo>`

The `<mdui:UIInfo>` element contains information which pertains to (but is not specifically limited to) the creation of user interfaces for tasks such as identity provider selection/discovery, user authentication, attribute release consent, etc.

This element contains any number of the following elements, in any order:

- `<mdui:DisplayName>`
  
  Localized names for the entity operating in the containing role.

- `<mdui:Description>`
  
  Localized descriptions of the entity operating in the containing role.

- `<mdui:Keywords>`
  
  Localized search keywords, tags, categories, or labels for the containing role.

- `<mdui:Logo>`
  
  Localized logo graphic for the entity operating in the containing role.

- `<mdui:InformationURL>`
  
  URLs to localized information about the entity operating in the containing role.

- `<mdui:PrivacyStatementURL>`
  
  URLs to localized information about the privacy practices of the entity operating in the containing role.

In addition, this element MAY contain an arbitrary number of extension elements from other namespaces, the definitions/semantics of which must be supplied elsewhere.

The schema for the `<mdui:UIInfo>` element, and its corresponding `<mdui:UIInfoType>` complex type, is as follows:

```xml
<element name="UIInfo" type="mdui:UIInfoType"/>
```
<complexType name="UIInfoType">
  <choice minOccurs="0" maxOccurs="unbounded">
    <element ref="mdui:DisplayName"/>
    <element ref="mdui:Description"/>
    <element ref="mdui:Keywords"/>
    <element ref="mdui:Logo"/>
    <element ref="mdui:InformationURL"/>
    <element ref="mdui:PrivacyStatementURL"/>
    <any namespace="##other" processContents="lax"/>
  </choice>
</complexType>

2.1.2 Element <mdui:DisplayName>

The `<mdui:DisplayName>` element specifies a set of localized names fit for display to users. Such names are meant to allow a user to distinguish and identify the entity acting in a particular role. The content of this element should be suitable for use in constructing accessible user interfaces for those with disabilities.

There MUST NOT be more than one `<mdui:DisplayName>` element with the same `xml:lang` attribute value within a single role descriptor.

The schema for the `<mdui:DisplayName>` element is as follows:

```xml
<element name="DisplayName" type="md:localizedNameType"/>
```

2.1.3 Element <mdui:Description>

The `<mdui:Description>` element specifies a brief, localized description fit for display to users. In the case of an `<md:SPSSODescriptor>` role, this SHOULD be a description of the service being offered. In the case of an `<md:IDPSSODescriptor>` role this SHOULD be a description of the user community serviced.

In all cases this text MUST be standalone, meaning it is not to be used as a template requiring additional text (e.g., "This service offers $description").

There MUST NOT be more than one `<mdui:Description>` element with the same `xml:lang` attribute value within a single role descriptor.

The schema for the `<mdui:Description>` element is as follows:

```xml
<element name="Description" type="md:localizedNameType"/>
```

2.1.4 Element <mdui:Keywords>

The `<mdui:Keywords>` element specifies a list of localized search keywords, tags, categories, or labels that apply to the containing role. This element extends the `mdui:listOfStrings` schema type with the following attribute:

```xml
xml:lang [Required]

Language specifier.
```

The content of this element is a "list" of strings in the XML Schema [Schema2] sense, which means the keyword strings are space-delimited.

There MUST NOT be more than one `<mdui:Keywords>` element with the same `xml:lang` attribute value within a single role descriptor.
The schema for the `<mdui:Keywords>` element, and its corresponding `mdui:KeywordsType` complex type, is as follows:

```xml
<element name="Keywords" type="md:KeywordsType"/>
<complexType name="KeywordsType">
  <simpleContent>
    <extension base="mdui:listOfStrings">
      <attribute ref="xml:lang" use="required"/>
    </extension>
  </simpleContent>
</complexType>
<simpleType name="listOfStrings">
  <list itemType="string"/>
</simpleType>
```

### 2.1.5 Element `<mdui:Logo>`

The `<mdui:Logo>` element specifies the external location of a localized logo fit for display to users. This element extends the `anyURI` schema type with the following attributes:

- **height** [Required]
  - The height of the logo measured in pixels.

- **width** [Required]
  - The width of the logo measured in pixels.

- **xml:lang**
  - Optional language specifier.

In order to facilitate the usage of logos within a user interface, logos SHOULD:

- use a transparent background where appropriate
- use PNG, or GIF (less preferred), images
- use HTTPS URLs in order to avoid mixed-content warnings within browsers

The order of logo elements is not significant, and a consumer MAY select any logo that meets its presentation and internationalization requirements. Communities of use SHOULD establish guidelines or requirements for logo size, aspect ratio, etc. to ensure consistency. If logos without an `xml:lang` attribute are present, then they SHOULD be considered the default logos for use when logos in the user's preferred language are not available.

The schema for the `<mdui:Logo>` element, and its corresponding `mdui:LogoType` complex type, is as follows:

```xml
<element name="Logo" type="mdui:LogoType"/>
<complexType name="LogoType">
  <simpleContent>
    <extension base="anyURI">
      <attribute name="height" type="positiveInteger" use="required"/>
      <attribute name="width" type="positiveInteger" use="required"/>
      <attribute ref="xml:lang"/>
    </extension>
  </simpleContent>
</complexType>
```

### 2.1.6 Element `<mdui:InformationURL>`

The `<mdui:InformationURL>` specifies an external location for localized information about the entity acting in a given role meant to be viewed by users. The content found at the URL SHOULD provide more complete information than what would be provided by the `<mdui:Description>` element.
There MUST NOT be more than one `<mdui:InformationURL>` element with the same `xml:lang` attribute value within a single role descriptor.

The schema for the `<mdui:InformationURL>` element is as follows:

```xml
<element name="InformationURL" type="md:localizedURIType"/>
```

### 2.1.7 Element `<mdui:PrivacyStatementURL>`

The `<mdui:PrivacyStatementURL>` specifies an external location for localized privacy statements. Such statements are meant to provide a user with information about how information will be used and managed by the entity acting in a given role.

There MUST NOT be more than one `<mdui:PrivacyStatementURL>` element with the same `xml:lang` attribute value within a single role descriptor.

The schema for the `<mdui:PrivacyStatementURL>` element is as follows:

```xml
<element name="PrivacyStatementURL" type="md:localizedURIType"/>
```

### 2.2 Discovery Hinting Information

The discovery hinting extension elements provide information which may hint at the identity provider with which a user is associated. A server-side selection mechanism could leverage such hints in conjunction with client-supplied information to adjust likely choices. Information provided by the content of this element is meant only as a hint and SHOULD NOT be used to definitively select an identity provider without user intervention or confirmation.

The `<mdui:DiscoHints>` container element, defined below, MUST appear within the `<md:Extensions>` element of an `<md:IDPSSODescriptor>` element. The use of the `<mdui:DiscoHints>` element, or any other element defined in this section, outside of that context is not defined by this specification.

Finally, this element MUST NOT appear more than once within a given `<md:Extensions>` element.

#### 2.2.1 Element `<mdui:DiscoHints>`

The `<mdui:DiscoHints>` element contains information which may be used by an identity provider selection/discovery service as hints in determining with which identity provider(s) the user may be associated.

This element contains any number of the following elements, in any order:

- `<mdui:IPHint>`
  
  IP address blocks associated with, or serviced by, the entity operating in the containing role.

- `<mdui:DomainHint>`

  DNS domain names associated with, or serviced by, the entity operating in the containing role.

- `<mdui:GeolocationHint>`

  Geographic coordinates associated with, or serviced by, the entity operating in the containing role.

In addition, this element MAY contain an arbitrary number of extension elements from other namespaces, the definitions/semantics of which must be supplied elsewhere.
The schema for the `<mdui:DiscoHints>` element, and its corresponding `mdui:DiscoHintsType` complex type, is as follows:

```xml
<element name="DiscoHints" type="mdui:DiscoHintsType"/>
<complexType name="DiscoHintsType">
  <choice minOccurs="0" maxOccurs="unbounded">
    <element ref="mdui:IPHint"/>
    <element ref="mdui:DomainHint"/>
    <element ref="mdui:GeolocationHint"/>
    <any namespace="##other" processContents="lax"/>
  </choice>
</complexType>
```

### 2.2.2 Element `<mdui:IPHint>`

The `<mdui:IPHint>` element specifies an [RFC4632] block associated with, or serviced by, the entity. Both IPv4 and IPv6 CIDR blocks MUST be supported.

The schema for the `<mdui:IPHint>` element is as follows:

```xml
<element name="IPHint" type="string"/>
```

### 2.2.3 Element `<mdui:DomainHint>`

The `<mdui:DomainHint>` element specifies a DNS domain associated with, or serviced by, the entity.

The schema for the `<mdui:DomainHint>` element is as follows:

```xml
<element name="DomainHint" type="string"/>
```

### 2.2.4 Element `<mdui:GeolocationHint>`

The `<mdui:GeolocationHint>` element specifies a set of geographic coordinates associated with, or serviced by, the entity. Coordinates are given in URI form using the `geo` URI scheme [RFC5870].

The schema for the `<mdui:GeolocationHint>` element is as follows:

```xml
<element name="GeolocationHint" type="anyURI"/>
```

### 2.3 Relationship with Existing Metadata Elements

#### 2.3.1 `<md:Organization>` Elements

SAML metadata defines localized organizational names, display names, and URLs at both the entity and role level. These elements are meant to reflect information about the organization that "owns" or operates a particular entity. To date, most known identity provider discovery interfaces have relied on entity-level `<md:OrganizationDisplayName>` element content. Some applications will also display the organization name for service providers as a means of identifying the service.

However, such usage is based on two implicit assumptions:

- the organization name is recognizable and can be understood by the user within the context that it is used
- the organization only has one entity operating in a given role at any specific time
There are many cases, however, where one or both of these assumption are not true. An example conflicting with the first assumption may be Virginia Polytechnic Institute and State University, which the world knows as "Virginia Tech". An example that conflicts with both assumptions might be a third-party hosting service. Its name would not be recognized by any user and it could operate many entities at any given time.

However, the organizational display name may still be useful, for example within “owned by...” or “operated by...” statements.

### 2.3.2 Service Name and Description

Entities with a `<md:SPSSODescriptor>` role may optionally include one or more `<md:AttributeConsumingService>` elements which in turn contain `<md:ServiceName>` and `<md:ServiceDescription>` elements. These elements are normally used to expose the attribute requirements for various service "levels" and to associate certain names and descriptions with them.

The following issues make these elements inappropriate for carrying a general display name and description for the service:

- other role elements have no analogous elements
- some services do not require attributes, but the `<md:AttributeConsumingService>` element requires the inclusion of one or more `<md:RequestedAttribute>` elements
- the typical usage for these elements do not convey a name and description for the service itself

### 2.3.3 Suggested Precedence

Implementations that rely on display name information SHOULD rely on elements in the following order of preference:

- `<mdui:DisplayName>`
- `<md:ServiceName>` (if applicable)
- `entityID` or a hostname associated with the endpoint of the service

### 2.4 Example

An elided example follows.

```xml
<EntityDescriptor entityID="https://idp.switch.ch/idp/shibboleth"
    xmlns="urn:oasis:names:tc:SAML:2.0:metadata"
    xmlns:mdui="urn:oasis:names:tc:SAML:2.0:metadata:ui">
    <IDPSSODescriptor
        protocolSupportEnumeration="urn:oasis:names:tc:SAML:2.0:protocol">
        <Extensions>
            <mdui:UIInfo>
                <mdui:DisplayName xml:lang="en">SWITCH</mdui:DisplayName>
                <mdui:DisplayName xml:lang="de">SWITCH</mdui:DisplayName>
                <mdui:Description xml:lang="en">
                    Switzerland's national research and education network.
                </mdui:Description>
                <mdui:Description xml:lang="de">
                    ...
                </mdui:Description>
            </mdui:UIInfo>
        </Extensions>
    </IDPSSODescriptor>
</EntityDescriptor>
```
3 Conformance

3.1 SAML V2.0 Metadata Extensions for Login and Discovery User Interface Version 1.0

A metadata producer conforms to this profile if it has the ability to produce metadata in accordance with sections 2.1 and 2.2.

A metadata consumer conforms to this profile if it can consume extended metadata produced in accordance with sections 2.1 and 2.2.

An identity provider discovery service or agent conforms to this profile if it has the ability to consume and utilize extended metadata produced in accordance with sections 2.1, 2.2, and 2.3.3.
Appendix A. Acknowledgments

The editors would like to acknowledge the contributions of the OASIS Security Services Technical Committee, whose voting members at the time of publication were:

- TBD

The editor would also like to acknowledge the following contributors:

- Chad LaJoie, Itumi, LLC.
- Rod Widdowson, EDINA, University of Edinburgh
- Ian Young, EDINA, University of Edinburgh
Appendix B. Revision History

Working Draft 06:
- Add `<Keywords>` element as a search "catch-all"

Working Draft 05:
- Fix typo
- Reword "languageless logo" text and move together with other logo use guideline text

Working Draft 04:
- Migrated text to new OASIS template and filename
- Removed specific logo guidance in favor of generic advice
- Added fallback option to hostnames in addition to entityId
- Better guidance on intended use of elements and scope of specification

Working Draft 03:
- Fixed namespace in section 1 table
- Add limit on one wrapper element per Extensions block
- Improve example to reflect guidance in spec
- Add note about accessibility to DisplayName

Working Draft 02:
- Fixed missing wildcard in schema
- Corrected some typos
- Removed ODN from fallback precedence

Working Draft 01:
- Initial OASIS submission
- Removed SAML version number from namespace for consistency with other extensions
- Various editorial rewording and combining of normative sections, externalized the schema.
- Added conformance section
- Changed base type of `<Logo>` to URI, and switched `<GeolocationHint>` to URI based on RFC5870
- Added wildcards to wrapper elements, changed them to choice bags

Presubmission Changes:

Changes to Draft 03:
- Correct typo in DiscoHints schema; the 's' was missing from Hints
- Add a couple examples where the assumptions noted in section 2.3.1 do not hold
- Minor typographical corrections

Changes to Draft 02:
- Add SAML version number to declared namespace
- Add `<UIInfo>` and `<DiscoHints>`

Changes to Draft 01:
- Move from the use of metadata entity attributes to direct XML elements located with in role `<Extensions>` elements
- Make `xml:lang` attribute on `<Logo>` elements optional with the lack of language indicating the default logo to use
- Add `<PrivacyStatementURL>` element