

XML Schema for WSML identifiers

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Schema Document Properties

Target Namespace	http://www.wsmo.org/wsml/wsml-syntax#
Element and Attribute Namespaces	<ul style="list-style-type: none">• Global element and attribute declarations belong to this schema's target namespace.• By default, local element declarations belong to this schema's target namespace.• By default, local attribute declarations have no namespace.
Documentation	version: \$Revision: 1.13 \$ date: \$Date: 2005/03/04 11:50:15 \$ author: Jos de Bruijn this schema is a module, which belongs to the WSML/XML schema specification. This schema provides the necessary definitions for the identifiers in WSML/XML.

Declared Namespaces

Prefix	Namespace
Default namespace	http://www.wsmo.org/wsml/wsml-syntax#
xml	http://www.w3.org/XML/1998/namespace
xs	http://www.w3.org/2001/XMLSchema

Schema Component Representation

```
<xs:schema targetNamespace="http://www.wsmo.org/wsml/wsml-syntax#"
  elementFormDefault="qualified" attributeFormDefault="unqualified">
  ...
</xs:schema>
```

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Global Schema Components

Simple Type: **wsmIIRI**

<i>Super-types:</i>	None
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<i>Sub-types:</i>	None
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Name	wsmIIRI
Content	<ul style="list-style-type: none"> • Union of following types: <ul style="list-style-type: none"> ◦ xs:string
Documentation	The basic kind of identifier in WSMML: an IRI. As an URI is more restrictive than an IRI, we are forced to use xs:string instead of xs:anyURI as type! Note that when translating the standard WSMML syntax to XML, Qualified names are resolved to full IRIs. When using the reserved IRI http://www.wsmo.org/2004/wsmIIRI#anonymousID , it is interpreted as an anonymous ID.

Schema Component Representation

```
<xs:simpleType name="wsmIIRI">
  <xs:union memberTypes=" xs:string" />
</xs:simpleType>
```

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Complex Type: [wsmIAnyValue](#)

<i>Super-types:</i>	None
<i>Sub-types:</i>	None

Name	wsmIAnyValue
Abstract	no
Documentation	A data value in WSMML. The type is required. Because we allow complex constructed data values, a data value can have multiple arguments. The arguments are strictly ordered. The content is mixed; it is thus possible to use both regular text and tags which represent the arguments. Regular text is interpreted as the first argument.

XML Instance Representation

```
<...
  type=" wsmIIRI [1]">
  <!-- Mixed content -->
  <argument> xs:string </argument> [0..*]
</...>
```

Schema Component Representation

```
<xs:complexType name="wsmIAnyValue" mixed="true">
  <xs:sequence>
    <xs:element name="argument" type=" xs:string " minOccurs="0"
      maxOccurs="unbounded" />
  </xs:sequence>
  <xs:attribute name="type" type=" wsmIIRI " use="required" />
</xs:complexType>
```

Complex Type: **wsmIID**

Super-types: [xs:string](#) < **wsmIID** (by extension)

Sub-types: None

Name	wsmIID
Abstract	no
Documentation	wsmIID corresponds with either an IRI, a string, an integer, a decimal, a variable or an anonymous identifier. The type of the identifier is indicated in the attribute 'type'. The IRIs identifying the types IRI, string, integer and decimal correspond with the IRIs of the datatypes as defined in Appendix C of the WSMML specification. The type variable is identified with the IRI http://www.wsmo.org/2004/wsmml#variable , the type anonymousID is identified with http://www.wsmo.org/2004/wsmml#anonymousID .

XML Instance Representation

```
<...
  type=" wsmmlIRI [1]">
  xs:string
</...>
```

Schema Component Representation

```
<xs:complexType name="wsmIID">
  <xs:simpleContent>
    <xs:extension base=" xs:string ">
      <xs:attribute name="type" type=" wsmmlIRI " use="required"/>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

Simple Type: **wsmVariable**

Super-types: [xs:string](#) < **wsmVariable** (by restriction)

Sub-types: None

Name	wsmVariable
Content	<ul style="list-style-type: none"> • Base XSD Type: string • <i>pattern</i> = <code>'?([a-z][A-Z][0-9][0x4E00 - 0x9FA5][0x3007][0x3021 - 0x3029])+</code>
Documentation	A variables in a WSMML logical expression.

Schema Component Representation

```
<xs:simpleType name="wsmlVariable">
  <xs:restriction base="xs:string">
    <xs:pattern value="'?'([a-z][A-Z][0-9][0x4E00 -
      0x9FA5][0x3007][0x3021 - 0x3029])+'"/>
  </xs:restriction>
</xs:simpleType>
```

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