XML Schema for WSML identifiers

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Schema Document Properties

Target Namespace	**http://www.wsmo.org/2004/wsml**
Element and Attribute Namespaces	• 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: 1.3 $ date: $Date: 2004/10/25 18:58:48 $ 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/2004/wsml**
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/2004/wsml"
elementFormDefault="qualified" attributeFormDefault="unqualified">
   ...
</xs:schema>
```

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Global Schema Components

Simple Type: wsmlID

Super-types:	None
Sub-types:	None

Name	wsmlID
Content	• Union of following types: ◦ xs:anyURI
Documentation	The basic kind of identifier in WSML: a URI. Note that when translating the standard WSML syntax to XML, Qualified names are resolved to full URIs.

Schema Component Representation

```
<xs:simpleType name="wsmlID">
   <xs:union memberTypes=" xs:anyURI"/>
</xs:simpleType>
```

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Simple Type: wsmlIDorLiteral-basic

Super-types:	None
Sub-types:	• wsmlIDorLiteral (by extension) • wsmlAnyID (by extension)

Name	wsmlIDorLiteral-basic

Content	• Union of following types:
	  ◦ wsmlID
	  ◦ xs:string

Documentation	A helper type for wsmlIDorLiteral; is not used directly

Schema Component Representation

```
<xs:simpleType name="wsmlIDorLiteral-basic">
   <xs:union memberTypes=" wsmlID xs:string"/>
</xs:simpleType>
```

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Complex Type: wsmlLiteral

Super-types:	xs:string < **wsmlLiteral** (by extension)
Sub-types:	None

Name	wsmlLiteral
Abstract	no
Documentation	A literal in WSML. A literal can be typed or untyped. The recommended types are the XSD datatypes (http://www.w3.org/TR/xmlschema-2/) and rdf:XMLLiteral.

XML Instance Representation

```
<...
 type=" wsmlID [0..1]">
   xs:string
</...>
```

Schema Component Representation

```
<xs:complexType name="wsmlLiteral">
   <xs:simpleContent>
      <xs:extension base=" xs:string ">
         <xs:attribute name="type" type=" wsmlID "/>
      </xs:extension>
   </xs:simpleContent>
</xs:complexType>
```

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Complex Type: wsmlIDorLiteral

Super-types:	wsmlIDorLiteral-basic (by restriction) < **wsmlIDorLiteral** (by extension)
Sub-types:	None

Name	wsmlIDorLiteral
Abstract	no

XML Instance Representation

```
<...
 type=" wsmlID [0..1]"
 kind=" xs:string (value comes from list: {'wsmlID'|'literal'})
[0..1]">
   wsmlIDorLiteral-basic
</...>
```

Schema Component Representation

```
<xs:complexType name="wsmlIDorLiteral">
   <xs:simpleContent>
      <xs:extension base=" wsmlIDorLiteral-basic ">
         <xs:attribute name="type" type=" wsmlID " use="optional"/>
         <xs:attribute name="kind" use="optional">
            <xs:simpleType>
               <xs:restriction base=" xs:string ">
                  <xs:enumeration value="wsmlID"/>
                  <xs:enumeration value="literal"/>
               </xs:restriction>
            </xs:simpleType>
         </xs:attribute>
```

```
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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Complex Type: wsmlAnyID

Super-types:	wsmlIDorLiteral-basic (by restriction) < **wsmlAnyID** (by extension)
Sub-types:	None

Name	wsmlAnyID
Abstract	no
Documentation	wsmlAnyID corresponds with either a URI, a variables, a literal or an anonymous identifier.

XML Instance Representation

```
<...
 type=" wsmlID [0..1]"
 kind=" xs:string (value comes from list:
{'variable'|'wsmlID'|'literal'|'anonymousID'}) [1]">
   wsmlIDorLiteral-basic
</...>
```

Schema Component Representation

```
<xs:complexType name="wsmlAnyID">
  <xs:simpleContent>
    <xs:extension base=" wsmlIDorLiteral-basic ">
      <xs:attribute name="type" type=" wsmlID " use="optional"/>
      <xs:attribute name="kind" use="required">
        <xs:simpleType>
          <xs:restriction base=" xs:string ">
            <xs:enumeration value="variable"/>
            <xs:enumeration value="wsmlID"/>
            <xs:enumeration value="literal"/>
            <xs:enumeration value="anonymousID"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:simpleContent>
</xs:complexType>
```

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Simple Type: wsmlVariable

Super-types:	xs:string < **wsmlVariable** (by restriction)
Sub-types:	None

Name	wsmlVariable

Content	• Base XSD Type: string
Documentation	A variables in a WSML logical expression.

Schema Component Representation

```
<xs:simpleType name="wsmlVariable">
   <xs:restriction base=" xs:string "/>
</xs:simpleType>
```

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