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	• 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: wsmlIRI

Super-types:	None

Sub-types:	None

Name	wsmlIRI
Content	• Union of following types: ○ xs:string
Documentation	The basic kind of identifier in WSML: an IRI. As an URI is more restrictive then an IRI, we are forced to use xs:string instead of xs:anyURI as type! Note that when translating the standard WSML syntax to XML, Qualified names are resolved to full IRIs. When using the reserved IRI http://www.wsmo.org/2004/wsml#anonymousID, it is interpreted as an anonymous ID.

Schema Component Representation

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

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Complex Type: wsmlAnyValue

Super-types:	None
Sub-types:	None

Name	wsmlAnyValue
Abstract	no
Documentation	A data value in WSML. 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=" wsmlIRI [1]">
   <!-- Mixed content -->
   <argument> xs:string </argument> [0..*]
</...>
```

Schema Component Representation

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

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Complex Type: wsmlID

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

Name	wsmlID
Abstract	no
Documentation	wsmlID 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 WSML specification. The type variable is identified with the IRI http://www.wsmo.org/2004/wsml#variable, the type anonymousID is identified with http://www.wsmo.org/2004/wsml#anonymousID.

XML Instance Representation

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

Schema Component Representation

```
<xs:complexType name="wsmlID">
   <xs:simpleContent>
      <xs:extension base=" xs:string ">
         <xs:attribute name="type" type=" wsmlIRI " use="required"/>
      </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 • *pattern* = '?'([a-z][A-Z][0-9][0x4E00 - 0x9FA5][0x3007][0x3021 - 0x3029])+
Documentation	A variables in a WSML 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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