

Keyref

Maps to a UML Attribute added into some UML Class.

- refer – to value of "refer" or "referString" TaggedValue.
- name – to Attribute name.
- id – to TaggedValue.

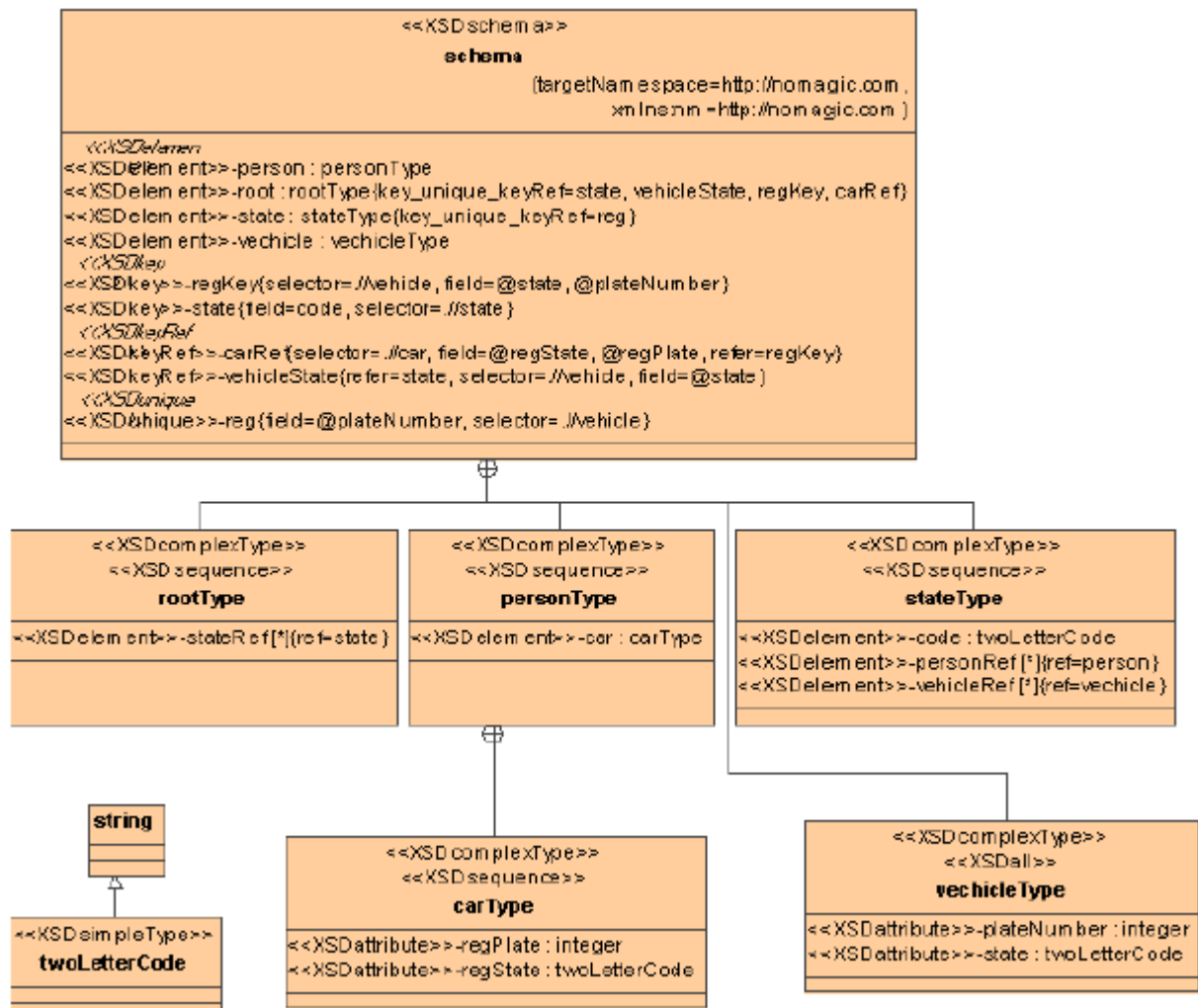
keyref Mapping to UML attributes

<keyref
 id = ID

 name = NCName
 refer = OName
 {any attributes with non-schema namespace...}>

 Content: (annotation?, (selector, field+))

</keyref>



keyref UML model example.

keyref XML code sample

<xs:schema xmlns:nm = "http://nomagic.com" xmlns:xs = "http://www.w3.org/2001/XMLSchema" targetNamespace = "http://nomagic.com" >
 <xs:element name = "vehicle">

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        <xs:complexType>
            <xs:all />

            <xs:attribute name = "plateNumber" type = "xs:integer" />
            <xs:attribute name = "state" type = "nm:twoLetterCode" />

        </xs:complexType>
    </xs:element>

    <xs:element name = "state">
        <xs:complexType>
            <xs:sequence>

                <xs:element name = "code" type = "nm:twoLetterCode" />
                <xs:element ref = "nm:vehicle" maxOccurs = "unbounded" />

                <xs:element ref = "nm:person" maxOccurs = "unbounded" />

            </xs:sequence>
        </xs:complexType>

        <xs:unique name = "reg" >
            <xs:annotation >

                <xs:documentation>unique documentation</xs:documentation>

            </xs:annotation>

            <xs:selector xpath = ".//vehicle" />
            <xs:field xpath = "@plateNumber" />

        </xs:unique>
    </xs:element>

    <xs:element name = "person">
        <xs:complexType>
            <xs:sequence>

                <xs:element name = "car">
                    <xs:complexType>
                        <xs:sequence />

                        <xs:attribute name "regPlate" type = "xs:integer" />
                        <xs:attribute name = "regState" type = "nm:twoLetterCode" />

                    </xs:complexType>
                </xs:element>

            </xs:sequence>
        </xs:complexType>
    </xs:element>

    <xs:element name = "root">
        <xs:complexType>
            <xs:sequence>
                <xs:element ref = "nm:state" maxOccurs = "unbounded" />

            </xs:sequence>
        </xs:complexType>

        <xs:key name = "state" >
            <xs:selector xpath = ".//state" />
            <xs:field xpath = "code"

        </xs:key>

        <xs:keyref name = "vehicleState" refer = "nm:state" >
            <xs:selector xpath = ".//vehicle" />

            <xs:field xpath = "@state" />

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</xs:keyref>

<xs:key name = "regKey">
  <xs:annotation>
    <xs:documentation>key documentation</xs:documentation>
  </xs:annotation>
  <xs:selector xpath = "../vehicle" />
  <xs:field xpath = "@state" />
  <xs:field xpath = "@plateNumber" />
</xs:key>

<xs:keyref name = "carRef" refer = "nm:regKey">
  <xs:annotation>
    <xs:documentation>key ref documentation</xs:documentation>
  </xs:annotation>
  <xs:selector xpath = "../car" />
  <xs:field xpath = "@regState" />
  <xs:field xpath = "@regPlate" />
</xs:keyref>

</xs:element>

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

</xs:schema>

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