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Methods for Testing and Specification (MTS);

The Testing and Test Control Notation version 3;

Part 9: Using XML schema with TTCN-3

**ETSI Standard**

Reference

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#### 7.6.5.4 Choice with nested sequence

An XSD *sequence* nested to a *choice* shall be mapped to a TTCN-3 **record** field of the enframing TTCN-3 **union** or **record of union** field (see clause 7.6.5), according to clause 7.6.6. The name of the **record** field shall be the result of applying clause 5.2.2 to "sequence".

EXAMPLE 1: Single *sequence* nested to *choice*:

<xsd:complexType name="e34a">

<xsd:choice>

<xsd:sequence>

<xsd:element name="foo" type="xsd:string"/>

<xsd:element name="bar" type="xsd:string"/>

</xsd:sequence>

<xsd:element name="ding" type="xsd:string"/>

</xsd:choice>

</xsd:complexType>

*Will be translated to TTCN-3 e.g. as:*

**type record** E34a **{**

**union** **{**

**record** **{**

XSD.String foo,

XSD.String bar

**}** sequence,

XSD.String ding

**}** choice

**}**

**with** **{**

**variant** "name as uncapitalized ";  **variant**(choice, choice.sequence) "untagged";  
 **}**

EXAMPLE 2: Multiple *sequence-s* nested to *choice*:

<xsd:complexType name="e34b">

<xsd:choice>

<xsd:sequence>

<sequence>

<xsd:element name="foo" type="xsd:string"/>

<xsd:element name="bar" type="xsd:string"/>

</xsd:sequence>

<xsd:element name="ding" type="xsd:string"/>

<xsd:element name="foo" type="xsd:string"/>

<xsd:element name="bar" type="xsd:string"/>

</xsd:sequence>

<xsd:element name="ding" type="xsd:string"/>

</xsd:choice>

</xsd:complexType>

*Will be translated to TTCN-3 e.g. as:*

**type record** E34b **{**

**union** **{**

**record** **{**

XSD.String foo,

XSD.String bar,

XSD.String ding,

XSD.String foo\_1,

XSD.String bar\_1

**}** sequence,

XSD.String ding

**}** choice

**}**

**with** **{**

**variant** "name as uncapitalized ";

**variant**(foo\_) "name as 'foo'";  
 **variant**(bar\_) "name as 'bar'";  
 **variant**(choice, choice.sequence) "untagged";

**variant** (choice.sequence.foo\_1) "name as 'foo'";

**variant** (choice.sequence.bar\_1) "name as 'bar'";  
 **}**