QosPolicyHolder:1 Erratum

Erratum Number:	***Next sequential erratum number***	**Effective Date:**	***July 14, 2006***
Document and Version:	***Document erratum applies to the service document QosPolicyHolder:1***		
Cross References:			

This Erratum has been adopted by the UPnP™ Technical Committee and includes the following information:

- **A unique Erratum number.**
- **The date it becomes effective.**
- **The document version to which this Erratum applies.**
- **A series of Errata entries (numbered) which list the effected section and page number in the document referenced here, the exiting text in the document with the text to be changed highlighted green and the clarified text with the text modified or added highlighted light blue.**

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Entry	
Document Section	**2.6.1 GetTrafficPolicy**
Document Page	

Background

The **GetTrafficPolicy** action requires some of the fields in the input TrafficDescriptor structure be filled, which cannot be sufficiently described in xsd, hence additional clarifications are added.

Current Text

2.6.1 GetTrafficPolicy

This action will determine what the prescribed level of QoS that will get applied to the requested traffic stream.

New Text

2.6.1 GetTrafficPolicy

This action will determine what the prescribed level of QoS that will get applied to the requested traffic stream.

If QosManager does not supply ActiveTspecIndex in TrafficDescriptor to the QosPolicyHolder, this action must return error code 723.

If a QosManager does not supply a TrafficHandle in a TrafficDescriptor to QosPolicyHolder, this action must return error code 700.

The QosPolicyHolder only returns the policy for the Tspec indicated by the ActiveTspecIndex.

In the TrafficDescriptor to the QosPolicyHolder, the Tspec for which TrafficPolicy is needed is indicated by the ActiveTspecIndex. ActiveTspecIndex must be one of the TspecIndex values in the AvailableOrderedTspecList. If not, QosPolicyHolder must return an error code 723.

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Entry Document Section Document Page	**3.2.1 Schema Definition**

Background

The TrafficPolicy.xsd did not have all the schema validation tags.

Current Text

3.2.1 Schema Definition

This following is the formal XML schema definition for the UPnP QosPolicyHolder service namespace "http://www.upnp.org/schemas/TrafficPolicy".

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
targetNamespace="http://www.upnp.org/schemas/TrafficPolicy.xsd"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns="http://www.upnp.org/schemas/TrafficPolicy.xsd"
elementFormDefault="qualified" attributeFormDefault="unqualified">
    <xs:element name="TrafficPolicy">
        <xs:annotation>
            <xs:documentation>See Section 2.4.3 in the QosPolicyHolder
service specification </xs:documentation>
        </xs:annotation>
        <xs:complexType>
            <xs:sequence>
                <xs:element name="AdmissionPolicy" minOccurs="1"
maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:string' >
                            <xs:enumeration value='Disabled'/>
                            <xs:enumeration value='Enabled'/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:element>
                <xs:element name="TrafficImportanceNumber"
minOccurs="1" maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:nonNegativeInteger'>
                            <xs:maxInclusive value="7"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:element>
                <xs:element name="UserImportanceNumber" minOccurs="0"
maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:nonNegativeInteger' >
                            <xs:maxInclusive value="255"/>
                        </xs:restriction>
                    </xs:simpleType>
```

~~</xs:element>~~
~~<xs:any minOccurs="0" maxOccurs="unbounded" />~~
~~</xs:sequence>~~
~~</xs:complexType>~~
~~</xs:element>~~
~~</xs:schema>~~

New Text

3.2.1 Schema Definition

This following is the formal XML schema definition for the UPnP QosPolicyHolder service namespace "http://www.upnp.org/schemas/TrafficPolicy".

```
 <?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  targetNamespace="http://www.upnp.org/schemas/TrafficPolicy.xsd"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  xmlns="http://www.upnp.org/schemas/TrafficPolicy.xsd"
  elementFormDefault="qualified"
  id="TrafficPolicy.xsd"
  attributeFormDefault="unqualified">

        <xs:annotation>
            <xs:documentation>
    See Section 2.4.3 in the QosPolicyHolder  service specification
    Copyright 2004, 2005 UPnP(tm). All rights reserved.
          </xs:documentation>
        </xs:annotation>

    <xs:element name="TrafficPolicy" type="TrafficPolicyType"/>

    <xs:complexType name="TrafficPolicyType">
            <xs:sequence>
                <xs:element name="AdmissionPolicy" minOccurs="1" maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:string' >
                            <xs:enumeration value='Disabled'/>
                            <xs:enumeration value='Enabled'/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:element>
                <xs:element name="TrafficImportanceNumber" minOccurs="1" maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:nonNegativeInteger'>
                            <xs:maxInclusive value="7"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:element>
                <xs:element name="UserImportanceNumber" minOccurs="0" maxOccurs="1">
                    <xs:simpleType>
                        <xs:restriction base='xs:nonNegativeInteger' >
                            <xs:maxInclusive value="255"/>
                        </xs:restriction>
                    </xs:simpleType>
                </xs:element>
               <xs:element name="v2" type="v2ExtensionType" minOccurs="0"/>
                <!-- allow any element except those from (v1) target namespace -->
                <xs:choice minOccurs="0" maxOccurs="unbounded" >
                    <xs:any namespace="##other" processContents="lax"/>
                    <xs:any namespace="##local" processContents="lax"/>
                </xs:choice>
            </xs:sequence>
    </xs:complexType>

    <xs:complexType name="v2ExtensionType">
```

```
                <xs:sequence>
                        <xs:any namespace="##targetNamespace" processContents="lax"
maxOccurs="unbounded"/>
                </xs:sequence>
                <xs:anyAttribute/>
    </xs:complexType>
</xs:schema>
```

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Entry	
Document Section	**3.2.2 <Any> XML Tag Usage**
Document Page	

Background

Provide examples for <Any> XML tag usage.

Current Text

3.2.2 <Any> XML Tag Usage

The <any> tag within a schema allows for vendors to add their own additions to this schema definition without impacting implementations that verifies XML text using the schema defined above. To prevent name collisions, vendors should define and use their own namespace to prevent name collision of their tags with those of other vendors. It's recommended that implementations do not require the retrieval of their corresponding schemas from the Internet.

New Text

3.2.3 <Any> XML Tag Usage

The <any> tag within a schema allows for vendors to add their own additions to this schema definition without impacting implementations that verifies XML text using the schema defined above. To prevent name collisions, vendors should define and use their own namespace to prevent name collision of their tags with those of other vendors. It's recommended that implementations do not require the retrieval of their corresponding schemas from the Internet.

The any tag is required for future extensibility of schema definitions without versioning the schema. The following examples demonstrate the usage of any tag in TrafficPolicy.

```
 <TrafficPolicy
  xmlns="http://www.upnp.org/schemas/TrafficPolicy.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:prv="http://myPrivate.com"
  xmlns:prv2="http://myPrivate2.com"
  xsi:schemaLocation="http://www.upnp.org/schemas/TrafficPolicy.xsd TrafficPolicy.xsd">
        <AdmissionPolicy>Enabled</AdmissionPolicy>
        <TrafficImportanceNumber>3</TrafficImportanceNumber>
        <UserImportanceNumber>128</UserImportanceNumber>
        <v2>
                <PolicyHolderId>urn:10.0.0.50:port:1024</PolicyHolderId>
                <prv2:MyPrivate2>whatever</prv2:MyPrivate2>
        </v2>
        <prv:MyPrivate1>whatever</prv:MyPrivate1>
</TrafficPolicy>
```

The xml tags in xml fragments must be in the same order as they are described in the XSD schema definitions.

The XSD files and the XML arguments have xsi:schemaLocation specified. This is strictly for unique identification purposes only. The location will not contain the XSD files.