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erratum number

Document and Document erratum applies to QosDevice:1

Version:

Cross References: List other Erratum's or Documents that this change may apply

to or have associated changes with

This Erratum has been adopted by the UPnPTM 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 1

Document

Section 2.3.3.1 XML Schema Definition

Document

Page

Background

Schema Validation rules added.

Current Text

2.3.3.1 XML Schema Definition

New Text

2.3.3.1 XML Schema Definition

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema
  targetNamespace="http://www.upnp.org/schemas/TrafficDescriptorsPerInterface.xsd"
  xmlns="http://www.upnp.org/schemas/TrafficDescriptorsPerInterface.xsd"
  xmlns:td="http://www.upnp.org/schemas/TrafficDescriptorv1.xsd"
  xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  id="TrafficDescriptorsPerInterface">

<xs:import namespace="http://www.upnp.org/schemas/TrafficDescriptorv1.xsd"
  schemaLocation="TrafficDescriptorv1.xsd"/>
```





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Background

Revised examples based on revised schema.

Current Text

2.3.3.3 Sample argument XML string

New Text

2.3.3.3 Sample argument XML string

```
<TrafficDescriptorsPerInterface</p>
"http://www.upnp.org/schemas/TrafficDescriptorsPerInterface.xsd"
:xsi="http://www.w3.org/2001/XMLSchema-instance"
:schemaLocation="http://www.upnp.org/schemas/TrafficDescriptorsPerInterface.xsd
PrafficDescriptorsPerInterface.xsd">
<TdInterfacePair>
   <TrafficDescriptor>
     <TrafficHandle>kiwin1</TrafficHandle>
       <SourceAddress>
         <Ipv4>192.168.1.50</Ipv4>
      </sourceAddress>
<SourcePort>23</sourcePort>
       <DestinationAddress>
         <Ipv4>192.168.1.50</Ipv4>
       </DestinationAddress>
       <DestinationPort>23/DestinationPort>
       <IpProtocol>1</IpProtocol>
     </TrafficId>
```



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Section 2.3.6.1 XML Schema Definition
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Background

Schema Validation rules added.

Current Text

```
2.3.6.1 XML Schema Definition
<del><xs:schema</del>
kmlns="http://www.upnp.org/schemas/QosDeviceCapabilities.xsd"
elementFormDefault-"qualified" id-"QosDeviceCapabilities"
 mlns:xs-"http://www.w3.org/2001/XMLSchema">
 ∕xs:annotation>
  <xs:element name="QosDeviceCapabilities">
    <xs:complexType>
name-"InterfaceId" type-"xs:string"
               <xs:element minOccurs="0" maxOccurs="1" name="MacAddress"</pre>
<del>:ype="MacAddressType"</del>
                        e<del>Type minOccurs="0" maxOccurs="1"</del>
                             vpe="xs:Integer"
                           triction base="xs:NMTOKEN">
                               maxOccurs="1" name="NativeQos";
xs:simpleType name="BasicNativeList">
                    <xs:restriction base="xs:NMTOKEN">
```

New Text

</xs:schema>

2.3.6.1 XML Schema Definition

```
<?xml version="1.0" encoding="utf-8"?>
 Kxs:schema xmlns="http://www.upnp.org/schemas/QosDeviceCapabilities.xsd"
 kmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.upnp.org/schemas/QosDeviceCapabilities.xsd"
elementFormDefault="qualified" id="QosDeviceCapabilities">

<
  <xs:annotation>
  <xs:documentation xml:lang="en">
     QosDeviceCapabilities schema.
     Copyright 2004,2005 UPnP(tm). All rights reserved.
                    </xs:documentation>
  </xs:annotation>
  <xs:element name="QosDeviceCapabilities" type="QosDeviceCapabilitiesType"/>
  <xs:complexType name="QosDeviceCapabilitiesType">
     <xs:sequence>
        <xs:element name="Interface" maxOccurs="unbounded">
           <xs:complexType>
             <xs:sequence>
                <xs:element name="InterfaceId" type="xs:string"/>
                <xs:element name="MacAddress" type="MacAddressType" minOccurs="0"/>
                <xs:element name="IanaTechnologyType" type="xs:integer" minOccurs="0"/>
                <xs:element name="AdmissionControlSupported">
<xs:simpleType>
                     <xs:restriction base="xs:string">
                        <xs:enumeration value="No"/>
                        <xs:enumeration value="Yes"/>
                     </xs:restriction>
                   </xs:simpleType>
                </xs:element>
                <xs:element name="NativeQos" type="NativeQosType"/>
                <xs:element name="MaxPhyRate" type="xs:unsignedInt"/>
<xs:element name="v2" type="v2ExtensionType" minOccurs="0"/>
                <!-- allow any element except those from target namespace --
                <xs:choice minOccurs="0" maxOccurs="unbounded">
                   <xs:any namespace="##other" processContents="lax"/>
<xs:any namespace="##local" processContents="lax"/>
```



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```
</xs:sequence>
        </xs:complexType>
      </xs:element>
 </xs:sequence>
</xs:complexType>
</xs:restriction>
</ms:simpleType>
</ms:simpleType>
<ms:simpleType name="NativeQosType">
    <ms:union memberTypes="BasicNativeList xs:string"/></mre>
</xs:simpleType>
<xs:simpleType name="BasicNativeList">
   <xs:restriction base="xs:string">
   <xs:enumeration value="Prioritized"/>
<xs:enumeration value="BestEffort"/>
</xs:restriction>
</xs:simpleType>
<xs:complexType name="v2ExtensionType">
    <xs:sequence>
      <xs:any namespace="##targetNamespace" processContents="lax" maxOccurs="unbounded"/>
   </xs:sequence>
   <xs:anyAttribute/>
 </xs:complexType>
/xs:schema>
```



Entry 4

Document

Section 2.3.6.3 Sample argument XML string

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Background

Revised examples based on revised schema.

Current Text

2.3.6.3 Sample argument XML string

```
(QosDeviceCapabilities xmlns="http://www.upnp.org/schemas/
<del>@osDeviceCapabilities.xsd"></del>
QosDeviceCapabilities>
 <del><Interface></del>
   <MacAddress>0212abcdef11</macAddress>
    <del><InterfaceId>eth0</InterfaceId></del>
    <del><IanaTechnologyType>6</IanaTe</del>
    <del><NativeOos>Prioritized</Nati</del>
 <Interface>
    <MacAddress>0212abcdef12</MacAddress>
    <InterfaceId>eth1</InterfaceId>
    <del><!anaTechnologyType>71</!anaTechnologyType></del>
    (MaxPhyRate>300000</MaxPhy
    <MacAddress>0212abcdef13</MacAddress>
   <InterfaceId>eth2</InterfaceId>
   <IanaTechnologyType>6</IanaTechnologyType>
         veOos>BestEffort</NativeOos>
    <del><MaxPhyRate>500000</del>
  <del>/Interface></del>
```

New Text

2.3.6.3 Sample argument XML string



<

QosDevice:1 Erratum

```
<NativeQos>Prioritized</NativeQos>
  <MaxPhyRate>10000000</MaxPhyRate>
</Interface>
<Interface>
<InterfaceId>eth1</InterfaceId>
  <MacAddress>0212abcdef12</MacAddress>
  <IanaTechnologyType>71</IanaTechnologyType>
<AdmissionControlSupported>No</AdmissionControlSupported>
  <NativeQos>Prioritized
  <MaxPhyRate>3000000</MaxPhyRate>
</Interface>
  <InterfaceId>eth2</InterfaceId>
  <MacAddress>0212abcdef13</MacAddress>
<IanaTechnologyType>6</IanaTechnologyType>
  <AdmissionControlSupported>No</AdmissionControlSupported>
  <NativeQos>BestEffort</NativeQos>
  <MaxPhyRate>5000000</MaxPhyRate>
</Interface>
<Interface>
  <InterfaceId>example1</InterfaceId>
<MacAddress>0212abcdefff</MacAddress>
  <IanaTechnologyType>12</IanaTechnologyType>
<AdmissionControlSupported>No</AdmissionControlSupported>
  <NativeQos>BestEffort
  <MaxPhyRate>5000000</MaxPhyRate>
</Interface>
```



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Background

Schema Validation rules added.

Current Text

2.3.7.1 XML Schema Definition

```
<xs:schema xmlns="http://www.upnp.org/schemas/QosDeviceState.xsd"
elementFormDefault="qualified" id="QosDeviceState"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

```
osDeviceState"
ame-"InterfaceId" type-"xs:string"
              <xs:element minOccurs="0" maxOccurs="4" name="IpAddress"</pre>
                               Occurs="1" maxOccurs="1"
                     minOccurs="0" maxOccurs="unbounded" />
                 nOccurs-"0" maxOccurs-"unbounded"
   </xs:complexType</pre>
<del>/xs:element></del>
```

New Text

2.3.7.1 XML Schema Definition

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns="http://www.upnp.org/schemas/QosDeviceState.xsd"</pre>
xmlns:xs="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.upnp.org/schemas/QosDeviceState.xsd"
elementFormDefault="qualified"
id="QosDeviceState">
 <xs:annotation>
   <xs:documentation xml:lang="en">
     QosDeviceState schema.
     Copyright 2004 UPnP(tm). All rights reserved.
   </xs:documentation>
 </xs:annotation>
 <xs:element name="QosDeviceState" type="QosDeviceStateType"/>
 <xs:complexType name="QosDeviceStateType">
   <xs:sequence>
     <xs:element name="QosStateId" type="xs:string"/>
     <xs:element name="Interface" maxOccurs="unbounded">
       <xs:complexType>
         <xs:sequence>
           <xs:element name="InterfaceId" type="xs:string"/>
           <xs:element name="IpAddress" type="IpAddressType" minOccurs="0"</pre>
maxOccurs="4"/>
           <xs:element name="InterfaceAvailability">
             <xs:simpleType>
               <xs:restriction base="xs:NMTOKEN">
                 <xs:enumeration value="1"/>
```



```
<xs:enumeration value="0"/>
               </xs:restriction>
             </xs:simpleType>
           </xs:element>
           <xs:element name="v2" type="v2ExtensionType" minOccurs="0"/>
           <!-- allow any element except those from 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:element>
   </xs:sequence>
</xs:complexType>
<xs:simpleType name="IPv4Address">
   <xs:restriction base="xs:string">
     xs:pattern value="(([1-9]?[0-9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])\.){3}([1-9]?[0-5])
9]|1[0-9][0-9]|2[0-4][0-9]|25[0-5])"/>
   </xs:restriction>
 </xs:simpleType>
 <xs:simpleType name="IPv6Address">
   <xs:restriction base="xs:hexBinary">
     <xs:length value="32"/>
   </xs:restriction>
</xs:simpleType>
<xs:simpleType name="PrefixLength">
  <xs:restriction base="xs:positiveInteger">
     <xs:minInclusive value="1"/>
     <xs:maxInclusive value="128"/>
   </xs:restriction>
 </xs:simpleType>
<xs:complexType name="IpAddressType">
   <xs:sequence>
     <xs:choice>
       <xs:element name="Ipv4" type="IPv4Address"/>
       <xs:element name="Ipv6" type="IPv6Address"/>
     </xs:choice>
     <xs:element name="PrefixLength" type="PrefixLength" minOccurs="0"/>
   </xs:sequence>
</xs:complexType>
<xs:complexType name="v2ExtensionType">
     <xs:any namespace="##targetNamespace" processContents="lax" maxOccurs="unbounded"/>
   </xs:sequence>
   <xs:anyAttribute/>
</xs:complexType>
</xs:schema>
```



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Background

Schema Validation rules added.

Current Text

2.3.8 PathInformation

PathInformation is a structure that provides MAC address information about devices reachable through each active interface.

2.3.8.1 XML Schema Definition



2.3.8.2 Description of fields in PathInformation structure

<u>LinkReachableMacs</u>: This is a required field. A LinkReachableMacs definition is required for each available link supported by the device. For a device with physical media dedicated to an interface (such as Ethernet) there will be a LinkReachableMacs definition for each physical interface. For a device with a shared media (such as 802.11) there will be a LinkReachableMacs definition for each device pair where communication is supported by the device.

<u>LinkId</u>: This is a required field. Its value is of type string, it must be unique within the device. It identifies the layer-2 link.

<u>MacAddress</u>: This is a required field when available. Provides the MAC address of the interface for an end point device.

ReachableMac: Provides the MAC address(es) of end point devices that are reachable through the link, if any.

<u>BridgedId</u>: Identifies the links that are bridged together. All links that have the same BridgeID are interconnected within the device such that layer-2 frames are forwarded between them.

2.3.8.3 Sample argument XML string – PC with two network interfaces

This is an example of an end point network device with two network interfaces.

2.3.8.4 Sample argument XML string – PC with two network interfaces that are both end point device and bridged

Similar to the previous example this is an example of an end point network device with two network interfaces. However this device all forwards layer-2 frames between the two network interfaces.

```
UPPP QosDevice:1 Erratum

</LinkReachableMacs>

<LinkReachableMacs>
```

2.3.8.5 Sample argument XML string -Four port Ethernet Switch

This is an example of a layer-2 switching device that interconnects four physical Ethernet ports. The device supports layer-2 frame forwarding between all ports.

2.3.8.6 Sample argument XML string – Wireless AP with one Ethernet Interface

This is an example of a wireless access point with three associated wireless stations and a single Ethernet port. The device supports layer-2 frame forwarding between all links. This includes forwarding between wireless station or to the Ethernet interface.



2.3.8.7 Sample argument XML string – Bridge device between Wireless station and Ethernet

This is an example of a bridging device with two interfaces on different network technologies. It does layer-2 forwarding of frames between wireless station interface and the wired Ethernet interface.

New Text

2.3.8 PathInformation

PathInformation is a structure that provides MAC address information about devices reachable through each active interface.

2.3.8.1 XML Schema Definition

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"</pre>
xmlns="http://www.upnp.org/schemas/PathInformation.xsd"
targetNamespace="http://www.upnp.org/schemas/PathInformation.xsd"
elementFormDefault="qualified" id="PathInformation">
<xs:annotation>
  <xs:documentation xml:lang="en">
    QosDevice PathInformation schema.
    Copyright 2004 UPnP(tm). All rights reserved.
   </xs:documentation>
</xs:annotation>
<xs:element name="DeviceReachableMacs" type="DeviceReachableMacsType"/>
<xs:complexType name="DeviceReachableMacsType">
  <xs:sequence>
    <xs:element name="LinkReachableMacs" maxOccurs="unbounded">
       <xs:complexType>
         <xs:sequence>
           <xs:element name="LinkId" type="xs:string"/>
           <xs:element name="BridgeId" type="xs:string" minOccurs="0"/>
           <xs:element name="MacAddress" type="MacAddressType" minOccurs="0"/>
<xs:element name="ReachableMac" type="MacAddressType" minOccurs="0"</pre>
maxOccurs="unbounded"/>
           <!-- allow any element except those from target namespace -->
```

```
<xs:any namespace="##other" processContents="lax"</pre>
             <xs:any namespace="##local" processContents="lax"/>
           </xs:choice>
         </xs:sequence>
       </xs:complexType>
    </xs:element>
    <xs:element name="v2" type="v2ExtensionType" minOccurs="0"/</pre>
    <!-- allow any element except those from 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:simpleType name="MacAddressType"</pre>
  <xs:restriction base="xs:string">
     <xs:pattern value="[0-9a-fA-F]{12}"/>
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="v2ExtensionType";</pre>
  <xs:sequence>
    <xs:any namespace="##targetNamespace" processContents="lax" maxOccurs="unbounded"/>
  </xs:sequence>
  <xs:anyAttribute/>
</xs:complexType>
/xs:schema>
```

2.3.8.2 Description of fields in PathInformation structure

<u>LinkReachableMacs</u>: This is a required field. A LinkReachableMacs definition is required for each available link supported by the device. For a device with physical media dedicated to an interface (such as Ethernet) there will be a LinkReachableMacs definition for each physical interface. For a device with a shared media (such as 802.11) there will be a LinkReachableMacs definition for each device pair where communication is supported by the device.

<u>LinkId</u>: This is a required field. Its value is of type string, it must be unique within the device. It identifies the layer-2 link.

<u>MacAddress</u>: This is a required field when available. Provides the MAC address of the interface for an end point device.

ReachableMac: Provides the MAC address(es) of end point devices that are reachable through the link, if any.

<u>BridgedId</u>: Identifies the links that are bridged together. All links that have the same BridgeID are interconnected within the device such that layer-2 frames are forwarded between them.

2.3.8.3 Sample argument XML string – PC with two network interfaces

This is an example of an end point network device with two network interfaces.



2.3.8.4 Sample argument XML string – PC with two network interfaces that are both end point device and bridged

Similar to the previous example this is an example of an end point network device with two network interfaces. However this device all forwards layer-2 frames between the two network interfaces.

```
DeviceReachableMacs
 xmlns="http://www.upnp.org/schemas/PathInformation.xsd"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.upnp.org/schemas/PathInformation.xsc
athInformation.xsd">
 <LinkReachableMacs>
     <LinkId>eth0</LinkId>
     <MacAddress>112233aabb03</MacAddress>
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>eth1</LinkId>
    <MacAddress>112233aabb02</MacAddress>
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>eth0</LinkId>
     <BridgeId>Bridge/BridgeId>
     <ReachableMac>112233aabb03/ReachableMac
     <ReachableMac>112233aabb02/ReachableMac
     <ReachableMac>112233aabb01/ReachableMac
     <ReachableMac>112233aabb04
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>eth1</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb05</ReachableMac
 </LinkReachableMacs>
/DeviceReachableMacs
```

2.3.8.5 Sample argument XML string -Four port Ethernet Switch

This is an example of a layer-2 switching device that interconnects four physical Ethernet ports. The device supports layer-2 frame forwarding between all ports.

```
DeviceReachableMacs
 xmlns="http://www.upnp.org/schemas/PathInformation.xsd"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.upnp.org/schemas/PathInformation.xsd
athInformation.xsd">
 <LinkReachableMacs>
     <LinkId>eth0</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb03/ReachableMac
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>eth1</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb07/ReachableMac
     <ReachableMac>112233aabb05</ReachableMac>
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>eth2</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb02</ReachableMac
     <ReachableMac>112233aabb01/ReachableMac
```

2.3.8.6 Sample argument XML string – Wireless AP with one Ethernet Interface

This is an example of a wireless access point with three associated wireless stations and a single Ethernet port. The device supports layer-2 frame forwarding between all links. This includes forwarding between wireless station or to the Ethernet interface.

```
xmlns="http://www.upnp.org/schemas/PathInformation.xsd"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://www.upnp.org/schemas/PathInformation.xsd
PathInformation.xsd">
 <LinkReachableMacs>
     <LinkId>WL0</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb02
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>WL1</LinkId>
     <BridgeId>Bridge0</BridgeId>
     <ReachableMac>112233aabb01
 </LinkReachableMacs>
 <LinkReachableMacs>
     <LinkId>WL2</LinkId>
     <BridgeId>Bridge0/BridgeId>
     <ReachableMac>112233aabb04/ReachableMac
     <ReachableMac>112233aabb09/ReachableMac
 </LinkReachableMacs>
 <LinkReachableMacs>
    <LinkId>eth0</LinkId>
    <BridgeId>Bridge0</BridgeId>
    <ReachableMac>112233aabb03</ReachableMac
    <ReachableMac>112233aabb07/ReachableMac>
    <ReachableMac>112233aabb05/ReachableMac>
 </LinkReachableMacs>
/DeviceReachableMacs
```

2.3.8.7 Sample argument XML string – Bridge device between Wireless station and Ethernet

This is an example of a bridging device with two interfaces on different network technologies. It does layer-2 forwarding of frames between wireless station interface and the wired Ethernet interface.



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Background

Schema Validation rules added.

Current Text

```
2.3.9.1 XML Schema Definition
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"</pre>
xmlns-"http://www.upnp.org/schemas/QosDeviceInfo.xsd"
 targetNamespace="http://www.upnp.org/schemas/QoDeviceInfo.xsd"
 <del>elementFormDefault-"qualified"></del>
      Device Path Information
   <del></xs:annotation></del>
  <xs:element name="QosDeviceInfo">
         <xs:complexType>
              <xs:element name="IpProtocol" type=" IpProtocolType"</pre>
                           <del>curs="0" maxOccurs="unbounded" /></del>
       :minInclusive value="0"
  /xs:simpleType>
  </xs:restriction>
 <del></re></re></del>
```



-</xs:element>
</xs:schema>

New Text

2.3.9.1 XML Schema Definition

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema xmlns="http://www.upnp.org/schemas/QosDeviceInfo.xsd"
:xs="http://www.w3.org/2001/XMLSchema" ="http://www.upnp.org/schemas/QosDeviceInfo.xsd"</pre>
="qualified" id="QosDeviceInfo">
<xs:annotation>
   <xs:documentation xml:lang="en"</pre>
     QoS Device Information schema.
     Copyright 2004, 2005 UPnP(tm). All rights reserved.
   </xs:documentation>
 </xs:annotation>
<xs:element name="QosDeviceInfo" type="QosDeviceInfoType"/>
 <xs:complexType name="QosDeviceInfoType">
   <xs:sequence>
  <xs:element name="TrafficHandle" type="xs:string"/>
     <xs:element name="SourcePort" type="IpPortNumber" minOccurs="0"/>
     <xs:element name="DestinationPort" type="IpPortNumber" minOccurs="0"/>
     <xs:element name="IpProtocol" type="IpProtocolType"/>
<xs:element name="v2" type="v2ExtensionType" minOccurs="0"/</pre>
     <!-- allow any element except those from target namespace -->
     <xs:choice minOccurs="0" maxOccurs="unbounded">
  <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:simpleType name="IpPortNumber">
   <xs:restriction base="xs:nonNegativeInteger">
     <xs:minInclusive value="0"/>
     <xs:maxInclusive value="65535"/>
   </xs:restriction>
 </xs:simpleType>
<xs:simpleType name="IpProtocolType">
   <xs:restriction base="xs:nonNegativeInteger">
     <xs:minInclusive value="0"/>
      <xs:maxInclusive value="255"/>
   </xs:restriction>
 </xs:simpleType>
<xs:complexType name="v2ExtensionType">
   <xs:sequence>
     <xs:any namespace="##targetNamespace" processContents="lax" maxOccurs="unbounded"/>
   </xs:sequence>
   <xs:anyAttribute/>
 </xs:complexType>
</xs:schema>
```



Entry 8

Document

Section 2.5.3 SetupTrafficQos

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Background

Some of the input parameter restrictions could not be described by XML schema. Hence clarifications are added.

Current Text

2.5.3 SetupTrafficQos

SetupTrafficQoS interface indicates to the device to setup QoS for the Traffic described by A_ARG_TYPE_TrafficDescriptor. If there is no traffic descriptor with the same A_ARG_TYPE_TrafficHandle, then the traffic descriptor is registered in the device. If the device already has the traffic descriptor (identified by the traffic handle) registered, then the device must return an error (Error Code 702).

Please refer to the [QM] document Appendix 'Traffic Descriptor Matrix' for information about all of the fields of the Traffic Descriptor and how they are used.

Typically, the QoS Manager calls this action only once per traffic handle registration. If the QoS Manager intends to update QoS associated with the traffic (e.g. the lease time of the traffic), then it has to go over the complete traffic setup process again after it has released the QoS.

New Text

2.5.3 SetupTrafficQos

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Please refer to the [QM] document Appendix 'Traffic Descriptor Matrix' for information about all of the fields of the Traffic Descriptor and how they are used.

Typically, the QoS Manager calls this action only once per traffic handle registration. If the QoS Manager intends to update QoS associated with the traffic (e.g. the lease time of the traffic), then it has to go over the complete traffic setup process again after it has released the QoS.

When QosManager supplies TrafficDescriptor to QosDevice when calling this action, it must provide TrafficImportanceNumber. If the TrafficImportanceNumber is not provided then QosDevice must return error 711 (Insufficient information) indicating that the input information is not complete.

When QosManager supplies TrafficDescriptor to QosDevice when calling this action, it must provide ActiveTspecIndex. If the ActiveTspecIndex is not provided then QosDevice must return error 722.



If a QosManager does not supply a TrafficHandle in a TrafficDescriptor to QosDevice, the QosDevice must return error code 700.

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



Entry 9

Document

Section 2.5.4.3 Effect on State (if any)

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Background

Effect on QosStateId is clarified.

Current Text

2.5.4.3 Effect on State (if any)

After this call, traffic handle is no longer registered at the device to provide QoS. The device must release all its QoS resources allocated to that traffic.

New Text

2.5.4.3 Effect on State (if any)

After this call, traffic handle is no longer registered at the device to provide QoS. The device must release all its QoS resources allocated to that traffic.

The QosStateId is no longer valid after the completion of this action. Hence the QosDevice must update the QosStateId after every successful completion of this action.