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Contents

1. OVERVIEW AND SCOPE.....	4
2. SERVICE MODELING DEFINITIONS.....	5
2.2.1. Normative References.....	5
2.2.2. Informative References.....	5
2.3.1. Derived data types.....	6
2.3.2. A_ARG_TYPE_TrafficDescriptor.....	7
2.3.3. A_ARG_TYPE_TrafficPolicy.....	7
2.3.4. Relationships Between State Variables.....	8
2.4.1. Event Model.....	8
2.5.1. GetTrafficPolicy.....	9
2.5.2. Non-Standard Actions Implemented by a UPnP Vendor.....	11
2.5.3. Relationships Between Actions.....	11
2.5.4. Common Error Codes.....	11
3. SUPPORTING INFORMATION	13
3.2.1. <Any> XML Tag Usage.....	13
3.2.2. <v3> XML Tag Usage.....	13
4. THEORY OF OPERATION (INFORMATIVE)	14
5. XML SERVICE DESCRIPTION	15
6. TEST	16

List of Tables

1. Overview and Scope

QosPolicyHolder

2. Service Modeling Definitions

2.1. ServiceType

urn:schemas-upnp-org:service:QosPolicyHolder:2

2.2. Referenced Specifications

2.2.1. Normative References

[*Extensible Markup Language \(XML\) 1.0 \(Second Edition\)*](#)

[*UPnP Device Architecture, version 1.0*](#)

Date and Time on the Internet: Timestamps

2.2.2. Informative References

IEEE Standard for Information technology - Telecommunications and information exchange between systems - IEEE standard for local and metropolitan area networks - Common specifications - Media access control (MAC) Bridges

2.3. State Variables

Reader Note: For first-time reader, it may be more insightful to read the action definitions before reading the state variable definitions.

2.3.1. Derived data types

2.3.1.1. XML Fragments as UPnP Arguments

-
-
-
-
-

Variable Name	Req. or Opt. ¹	Data Type	Allowed Value	Default Value	Eng. Units

2.3.2. A_ARG_TYPE_TrafficDescriptor

xmlns:td2="http://www.upnp.org/schemas/TrafficDescriptorv1.xsd"

2.3.3. A_ARG_TYPE_TrafficPolicy

- *AdmissionPolicy*
- *TrafficImportanceNumber*
- *UserImportanceNumber*
- *AdmissionPolicy*
- *PolicyHolderId*

uuid:<UUID>:urn:upnp-org:serviceId:<SERVICEID>

uuid:0000481030110c68f9480:urn:upnp-org:serviceId:QosPolicyHolder-2a

o uuid:

- o SERVICEID
urn:upnp-org:serviceId:

- *PolicyLastModified*
- *PolicyModifyingUserName*
- *PolicyHolderConfigUrl*

<http://www.upnp.org/schemas/TrafficPolicy.xsd>

<http://www.upnp.org/schemas/qos/TrafficPolicy-v2.xsd>

2.3.4. Relationships Between State Variables

2.4. Eventing and Moderation

Table 2-2: Event Moderation

Variable Name	Evented	Moderated Event	Max Event Rate ¹	Logical Combination	Min Delta per Event ²

2.4.1. Event Model

2.5. Actions

Table 2-3: Actions

Name	Req. or Opt. ¹

2.5.1. GetTrafficPolicy

2.5.1.1. Arguments

Table 2-4: Arguments for GetTrafficPolicy

Argument	Direction	relatedStateVariable

<http://www.upnp.org/schemas/TrafficDescriptorv1.xsd>

2.5.1.2. Service requirements

2.5.1.3. CP requirements when calling the action**GetTrafficPolicy****GetTrafficPolicy****GetTrafficPolicy****2.5.1.4. Examples****GetTrafficPolicy**

```
<?xml version="1.0" encoding="UTF-8"?>
<TrafficPolicy
  xmlns="http://www.upnp.org/schemas/TrafficPolicy.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation=" http://www.upnp.org/schemas/TrafficPolicy.xsd
    http://www.upnp.org/schemas/qos/TrafficPolicy-v2.xsd">
  <AdmissionPolicy>Enabled</AdmissionPolicy>
  <TrafficImportanceNumber>3</TrafficImportanceNumber>
  <UserImportanceNumber>128</UserImportanceNumber>
  <v2>
    <PolicyHolderId>uuid:0000481030110c68f9480:serviceId:QPH-2a</PolicyHolderId>
    <PolicyLastModified>2004-11-26T15:03:23-08:00</PolicyLastModified>
    <PolicyModifyingUserName>Jimmy</PolicyModifyingUserName>
    <PolicyHolderConfigUrl>http://10.0.0.50/ConfigPolicy.html </PolicyHolderConfigUrl>
  </v2>
</TrafficPolicy>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<TrafficPolicy
  xmlns="http://www.upnp.org/schemas/TrafficPolicy.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation=" http://www.upnp.org/schemas/TrafficPolicy.xsd
    http://www.upnp.org/schemas/qos/TrafficPolicy-v2.xsd">
  <AdmissionPolicy>Disabled</AdmissionPolicy>
  <TrafficImportanceNumber>5</TrafficImportanceNumber>
  <v2>
    <PolicyHolderId>uuid:0000481030110c68f9480:serviceId:QPH-2b</PolicyHolderId>
    <PolicyHolderConfigUrl>http://10.0.0.50/ConfigPolicy.html</PolicyHolderConfigUrl>
  </v2>
</TrafficPolicy>
```

2.5.1.5. Dependency on State (if any)**2.5.1.6. Effect on State (if any)**

2.5.1.7. Errors

Table 2-5: Error Codes for GetTrafficPolicy

errorCode	errorDescription	Description

2.5.2. Non-Standard Actions Implemented by a UPnP Vendor

2.5.3. Relationships Between Actions

2.5.4. Common Error Codes

Table 2-6: Common Error Codes

errorCode	errorDescription	Description

errorCode	errorDescription	Description
800-899	TBD	(Specified by UPnP vendor.)

3. Supporting Information

3.1. Glossary

3.2. Namespaces

3.2.1. <Any> XML Tag Usage

```
<?xml version="1.0" encoding="UTF-8"?>
<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
    http://www.upnp.org/schemas/qos/TrafficPolicy-v2.xsd">
  <AdmissionPolicy>Enabled</AdmissionPolicy>
  <TrafficImportanceNumber>3</TrafficImportanceNumber>
  <UserImportanceNumber>128</UserImportanceNumber>
  <v2>
    <PolicyHolderId>uuid:0000481030110c68f9480:serviceId:gph-2a</PolicyHolderId>
    <PolicyLastModified>2004-11-26T15:03:23-08:00</PolicyLastModified>
    <PolicyModifyingUserName>Jimmy</PolicyModifyingUserName>
    <PolicyHolderConfigUrl>http://10.0.0.50/ConfigPolicy.html</PolicyHolderConfigUrl>
    <v3>
      <Whatever>whatever</Whatever>
    </v3>
    <prv2:MyPrivate2>whatever</prv2:MyPrivate2>
  </v2>
  <prv:MyPrivate1>whatever</prv:MyPrivate1>
</TrafficPolicy>
```

3.2.2. <v3> XML Tag Usage

4. Theory of Operation (Informative)

GetTrafficPolicy

GetTrafficPolicy

GetTrafficPolicy

- | | | | |
|---|--------------------------------|-----------------|-----------------|
| • | <i>AdmissionPolicy</i> | | |
| | <i>Enabled</i> | <i>Disabled</i> | |
| • | <i>TrafficImportanceNumber</i> | <i>0</i> | <i>7</i> |
| • | <i>UserImportanceNumber</i> | <i>0</i> | <i>255</i> |
| | <i>AdmissionPolicy</i> | | <i>Disabled</i> |
| • | <i>PolicyHolderId</i> | | |
| • | <i>PolicyLastModified</i> | | |
| • | <i>PolicyModifyingUserName</i> | | |
| | <i>PolicyLastModified</i> | | |
| • | <i>PolicyHolderConfigUrl</i> | | |

<i>UserImportanceNumber</i>	<i>AdmissionPolicy</i>	<i>Enabled</i>	<i>TrafficImportanceNumber</i>
			<i>GetTrafficPolicy</i>
			Error! Reference source not
found.			

5. XML Service Description

```

<?xml version="1.0"?>
<scpd xmlns="urn:schemas-upnp-org:service-1-0">
  <specVersion> <!-- UPnP version 1.0 -->
    <major>1</major>
    <minor>0</minor>
  </specVersion>
  <actionList>
    <action>
      <name>GetTrafficPolicy</name>
      <argumentList>
        <argument>
          <name>RequestedTrafficDescriptor</name>
          <relatedStateVariable>A_ARG_TYPE_TrafficDescriptor</relatedStateVariable>
          <direction>in</direction>
        </argument>
        <argument>
          <name>OutputTrafficPolicy</name>
          <relatedStateVariable>A_ARG_TYPE_TrafficPolicy</relatedStateVariable>
          <direction>out</direction>
        </argument>
      </argumentList>
    </action>
  </actionList>
  <serviceStateTable>
    <stateVariable sendEvents="no">
      <name>A_ARG_TYPE_TrafficDescriptor</name>
      <dataType>string</dataType>
    </stateVariable>
    <stateVariable sendEvents="no">
      <name>A_ARG_TYPE_TrafficPolicy</name>
      <dataType>string</dataType>
    </stateVariable>
  </serviceStateTable>
</scpd>

```

6. Test

Content requirements for this section to be specified in revision 1a of this standard template.