```
<!--
     * Title:       ApplicationProfile
     * Description: The ApplicationProfile gives the possibility to
                    describe an application in detail in the scope of
                    QoS mechanisms (QoS offer and request) towards a
                    QoS enabled network. An ApplicationProfile
                    collects protocol information (to know which
                    ports are used, etc.) and implementation
                    information especially codec, and service
                    component information.
                    The implementation information describes the
                    QoSRequirements of the codec/service components,
                    the traffic produced by the codec, and gives
                    user-friendly descriptions of the different
                    possible quality levels.
                    This information enables:
                         1. the presentation towards the end-user of
                         the application quality levels
                         2. the request for QoS (QoS requirements and
                         produced traffic behaviour)
                         3. the connection to the network layer of the
                         QoS enables network
     * Copyright:   Copyright(c) Anne Thomas
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     * @author:     Anne Thomas
     * @E-mail:     Anne.Thomas@inf.tu-dresden.de
     * @version:    V10 - 31/01/2002
     */
 -->
<!ELEMENT ApplicationProfile (Implementation+, protocol*)>
<!ATTLIST ApplicationProfile
 name CDATA #REQUIRED
 version CDATA #REQUIRED
 build CDATA #IMPLIED
 type (VoIP | MULTIMEDIA | STREAMINGVIDEO | STREAMINGAUDIO | GAME |
 OTHER) #REQUIRED
 scope (unidirectional | bidirectional | p2p |
 xdirectional) #REQUIRED
>

<!ELEMENT Implementation (ServiceComponent,TransportProtocol)>
<!--
    Applications can implement for their service components standard
    codecs. Nevertheless they interpret the codecs and the produced
    traffic for example depends directly of the concrete
    implementation. Here it is possible to reference application
    specific ServiceComponentProfiles mostly based on codecs and
    defining quality levels.
    As applications do not allways support all the quality levels of
    the ServiceComponent, a reference to the optionID of the
    ServiceComponent is necessary.
    !Note that if all optionIDs are implemented, no optionID
    references are necessary.
    A transport protocol is associated to each implemented
    ServiceComponent.
 -->
    <!ELEMENT ServiceComponent (name, optionID*)>
    <!ATTLIST ServiceComponent
        file CDATA #REQUIRED
    >
        <!ELEMENT optionID (#PCDATA)>
        <!ELEMENT name (#PCDATA)>
    <!ELEMENT TransportProtocol EMPTY>
    <!ATTLIST TransportProtocol
         name (TCP | UDP) "TCP"
    >
<!ELEMENT protocol (lowerPortNo?,upperPortNo?,isControlPort?)>
<!ATTLIST protocol
```

```
 name (RTP | RTSP | RSVP | SIP | SDP | H320 | H321 |
 H322 | H323 | H324) "H323"
>
    <!ELEMENT lowerPortNo (#PCDATA)>
    <!ATTLIST lowerPortNo
     value (fixed | configurable) "fixed"
    >
    <!ELEMENT upperPortNo (#PCDATA)>
    <!ATTLIST upperPortNo
     value (fixed | configurable) "fixed"
    >
    <!ELEMENT isControlPort (#PCDATA)>
    <!ATTLIST isControlPort
     value (true | false) "false"
    >
<!ELEMENT description (#PCDATA)>
```