RADEXT WG

draft-ietf-radext-ieee802ext-09
Bernard Aboba
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IETF 88

Please join the Jabber room:
radext@jabber.ietf.org
Draft Status

- WG Last Call has concluded.
- One open issue: 153 (Access-Info), addressed in -09.
- Is the proposed fix satisfactory?
  - If so, next step is forwarding the draft to the IESG.
Issue 153: Access-Info Attribute

- Along with Access-Info and NID Attributes, other EAPoL-Announcement TLVs defined in Table 11-8 are potentially relevant:
  - MACsec Cipher Suites TLV (Section 11.12.3)
  - Key Management Domain TLV (Section 11.12.4)
  - Organizationally Specific TLV (Section 11.12.5)

- To support use of any EAPoL-Announcement TLV, -09 proposes an EAPoL-Announcement Attribute.
### EAPoL-Announcement TLVs

<table>
<thead>
<tr>
<th>TLV type</th>
<th>TLV name</th>
<th>Set</th>
<th>Validity</th>
<th>Version 3</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>0–110</td>
<td>Individual TLVs reserved for future standardization</td>
<td>No</td>
<td>Reserved for future standardization</td>
<td>—</td>
<td>11.12.2</td>
</tr>
<tr>
<td>111</td>
<td>Access Information</td>
<td>No</td>
<td>Announcement, Announcement-Req, EAPOL-Start: Global, NID Set</td>
<td>M</td>
<td>11.12.3</td>
</tr>
<tr>
<td>112</td>
<td>MACsec Cipher Suites</td>
<td>No</td>
<td>Announcement: Global, NID Set</td>
<td>M</td>
<td>11.12.5</td>
</tr>
<tr>
<td>113</td>
<td>Key Management Domain</td>
<td>No</td>
<td>Announcement: Global, NID Set</td>
<td>M</td>
<td>11.12.5</td>
</tr>
<tr>
<td>114</td>
<td>NID (Network Identifier)</td>
<td>NID Set</td>
<td>Announcement, Announcement-Req, EAPOL-Start</td>
<td>M</td>
<td>11.12.1</td>
</tr>
<tr>
<td>115–125</td>
<td>Set TLVs reserved for future standardization.</td>
<td>Yes</td>
<td>To be specified</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>126</td>
<td>Organizationally Specific Set TLV</td>
<td>Yes</td>
<td>Specified by administering organization</td>
<td>O</td>
<td>11.12.5</td>
</tr>
<tr>
<td>127</td>
<td>Organizationally Specific TLVs</td>
<td>No</td>
<td></td>
<td>O</td>
<td>11.12.5</td>
</tr>
</tbody>
</table>

*a* Specifies the EAPoL Packet Types: Set(s) in which a given TLV is valid.

*b* If Announcements claimed for EAPOL Protocol Version 3: M—mandatory to implement, O—optional, — ignore
IEEE 802.1X-2010 Access Model

- Zero or more EAPoL-Announcement Attributes can be present in all RADIUS messages.
  - Access-Request: Reflects what the user has sent in an EAPoL-Announcement.
  - Access-Accept/Challenge/Reject, Disconnect-Request/CoA: What the RADIUS server wants the NAS to send in a EAPoL-Announcement.
  - Accounting-Request: Reflects an EAPoL-Announcement sent from the NAS to the user.
EAPoL-Announcement Attribute

- An attribute of Type String.
- The String field is one or more octets, containing EAPoL-Announcement TLVs in the format defined in Figure 11-8 of Section 11.12 of [IEEE-802.1X].
- Any EAPoL-Announcement TLV Type MAY be included within an EAPoL-Announcement Attribute, including Organizationally Specific TLVs.
EAPoL-Announcement Attribute (cont’d)

- If multiple EAPoL-Announcement attributes are present in a packet, their String fields MUST be concatenated before being parsed for EAPoL-Announcement TLVs; this allows EAPoL-Announcement TLVs longer than 253 octets to be transported by RADIUS.

- Similarly, EAPoL-Announcement TLVs larger than 253 octets MUST be fragmented between multiple EAPoL-Announcement attributes.
Feedback?