RADEXT WG

draft-ietf-radext-ieee802ext-09

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IETF 88

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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 11-8—EAPOL-Announcement TLVs

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

[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?