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RADIUS Delegated-IPv6-Prefix Attribute
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Abstract

The Delegated-IPv6-Prefix attribute indicates an IPv6 prefix that is to be delegated to the user.

1. Introduction

The Delegated-IPv6-Prefix indicates an IPv6 prefix to be delegated to the user. For example, the prefix in a Delegated-IPv6-Prefix

Prefix-Length

The length of the prefix, in bits. At least 0 and no larger than 128

Note that the prefix field is only required to be long enough to hold the prefix bits and can be shorter than 16 bytes. Any bits in the prefix field that are not part of the prefix MUST be zero.

The definition of the Delegated-IPv6-Prefix Attribute is based on the Framed-IPv6-Prefix attribute.

The following table describes which messages the Delegated-IPv6-Prefix attribute can appear in and in what quantity.

Request	Accept	Challenge	Reject	Accounting	#	Attribute
				Request		
0+	0+	0	0	0+	TBD	Delegated-IPv6-Prefix

In this table 0 indicates that an attribute MUST NOT be present in the packet and 0+ means that zero or more instances of this attribute MAY be present in packet.

4. IANA Considerations

IANA is requested to assign a Type value, TBD, for this attribute from the RADIUS Types registry.

5. Security Considerations

Known security vulnerabilities of the RADIUS protocol are discussed in [RFC 2607](#) [4], [RFC 2865](#) [5] and [RFC 2869](#) [6]. Use of IP SEC [7] for providing security when RADIUS is carried in IPv6 is discussed in [RFC 3162](#) [1].

6. Normative References

- [1] Aboba, B., Zorn, G., and D. Mitton, "RADIUS and IPv6", [RFC 3162](#), August 2001.
- [2] Troan, O. and R. Droms, "IPv6 Prefix Options for Dynamic Host Configuration Protocol (DHCP) version 6", [RFC 3633](#), December 2003.
- [3] Bradner, S., "Key words for use in RFCs to Indicate Requirement

Levels", [BCP 14](#), [RFC 2119](#), March 1997.

- [4] Aboba, B. and J. Vollbrecht, "Proxy Chaining and Policy Implementation in Roaming", [RFC 2607](#), June 1999.
- [5] Rigney, C., Willens, S., Rubens, A., and W. Simpson, "Remote Authentication Dial In User Service (RADIUS)", [RFC 2865](#), June 2000.
- [6] Rigney, C., Willats, W., and P. Calhoun, "RADIUS Extensions", [RFC 2869](#), June 2000.
- [7] Kent, S. and R. Atkinson, "Security Architecture for the Internet Protocol", [RFC 2401](#), November 1998.

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