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New Tunnel-Type Values draft-tiwari-radext-tunnel-type-02.txt

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Abstract

This document defines a set of values for the Tunnel-Type RADIUS Attribute.

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1. Introduction

The RADIUS protocol is defined in [RFC2865]. "RADIUS Attributes for Tunnel Protocol Support" [RFC2868] Section 3.1 defines the Tunnel-Type Attribute. This document defines a set of new values for the Tunnel-Type Attribute.

In [RFC2868] Section 3.1, two values relating to IPsec Tunnel-mode are allocated, one for "IP Authentication Header in the Tunnel-mode (AH)" (6), and one for "IP Encapsulating Security Payload in the Tunnel-mode (ESP)" (9). While the key management mechanisms are not stated, it is assumed that these include either Internet Key Exchange (IKE) [RFC2409] or manual keying via the Tunnel-Password Attribute defined in [RFC2868] Section 3.5.

Since then, IKEv2 [RFC4306] has been developed, and the specification for ESP has been revised [RFC4303]. This document requests allocation of additional Tunnel-Type values for "IP Encapsulating Security Payload in the Tunnel-mode (ESP) with IKEv2", as well as for the "Secure Socket Tunneling Protocol (SSTP)" [SSTP].

2. Tunnel-Type Values

This document defines new values for the Tunnel-Type Attribute. This specification concerns the following values:

- 14 IP Encapsulating Security Payload (ESP) [RFC4303] in the Tunnel-mode with IKEv2 [RFC4306]
- 15 Microsoft Secure Socket Tunneling Protocol (SSTP) [SSTP]

3. IANA Considerations

This document requests assignment of new values of the RADIUS Tunnel-Type Attribute by IANA in the appropriate registry [RADTYP].

The new values being requested are:

Tunnel-Type			
=======	====		
IP Encapsulating Security Payload (ESP) in the			
Tunnel-mode with IKEv2	14		
Microsoft Secure Socket Tunneling Protocol			
(SSTP)	15		

Additional values of the Tunnel-Type Attribute are allocated as described in [RFC2868] Section 6.1 (IETF Consensus). Allocation of attribute values is also discussed in [RFC3575] Section 2.1.

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4. Security Considerations

This specification neither adds to nor detracts from the security of the RADIUS protocol.

5. References

5.1. Normative references

- [RFC2865] Rigney, C., Rubens, A., Simpson, W. and S. Willens, "Remote Authentication Dial In User Service (RADIUS)", <u>RFC 2865</u>, June 2000.
- [RFC2868] Zorn, G., Leifer, D., Rubens, A., Shriver, J., Holdrege, M.,
 and I. Goyret, "RADIUS Attributes for Tunnel Protocol
 Support", RFC 2868, June 2000.
- [RFC3575] Aboba, B., "IANA Considerations for RADIUS", <u>RFC 3575</u>, July 2003.

5.2. Informative references

- [RFC2409] Harkins, D. and D. Carrel, "The Internet Key Exchange (IKE)", RFC 2409, November 1998.
- [RFC4303] Kent, S., "IP Encapsulating Security Payload (ESP)", <u>RFC 4303</u>, December 2005.
- [RFC4306] Kaufman, C., Ed., "Internet Key Exchange (IKEv2) Protocol", RFC 4306, December 2005.
- [SSTP] "[MS-SSTP]: Secure Socket Tunneling Protocol (SSTP)
 Specification", Microsoft Developer Network Library,
 http://msdn.microsoft.com/en-us/library/cc247338.aspx

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