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A RADIUS attribute for SAML constructs
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Status of this Memo

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Abstract

This document defines the SAML-Construct attribute using the Remote Authentication Dial In User Service (RADIUS). This attribute is used for encapsulating Security Assertion Mark-up Language (SAML) constructs.

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1. Introduction

This document defines the SAML-Construct attribute for the Remote Authentication Dial In User Service (RADIUS). This attribute encapsulates Security Assertion Mark-up Language (SAML) constructs.

2. Conventions used in this document

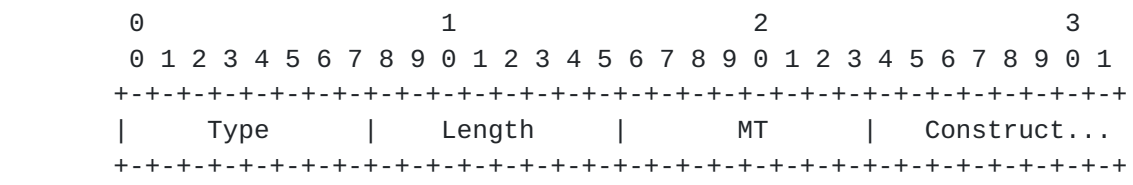
The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in RFC-2119 [RFC2119].

3. SAML-Construct Attribute

This attribute contains a SAML [Core] construct. This attribute MAY be used with any AAA protocol that makes use of RADIUS attributes, such as RADIUS [RFC2865] or DIAMETER [RFC3588].

Where multiple SAML-Construct attributes are included in an AAA protocol message (for example, a RADIUS packet), the Construct field of the attributes are to be concatenated to form a SAML construct.

A summary of the SAML-Construct format is shown below. The fields are transmitted from left to right.



Type

TBD

Length

>=4

Construct Type (CT)

The Construct Type field is a one octet enumerated field. It takes an integer value denoting the type of SAML construct in the Construct field.

TBD SAML Request protocol element

TBD SAML Response protocol element

All other values are reserved for IANA allocation subject to the provisions of section 5.

Construct

The Construct field is one or more octets. It contains a SAML construct (for example, as defined in [SAMLCore]). If larger than a single attribute, the SAML construct data MUST be split on 253-octet boundaries over as many attributes as necessary. On reception, the SAML construct is reconstructed by concatenating the contents of all SAML-Construct attributes.

4. Security Considerations

TODO

5. IANA Considerations

The following numbers have been assigned in the RADIUS Attribute Types registry.

A new RADIUS Attribute Type: SAML-Construct (TDB)

The enumerated values of the newly registered RADIUS Attribute Type as defined in this document were assigned at the same time as the new Attribute Type.

For the SAML-Construct Attribute:

TBD SAML Request protocol element

TBD SAML Response protocol element

Assignments of additional enumerated values for the RADIUS attributes defined in this document are to be processed as described in [RFC3575], subject to the additional requirements of a published specification.

6. References

6.1. Normative References

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, March 1997.

6.2. Informative References

[Core] Cantor, S., Kemp, J., Philpott, R., and E. Maler, "Assertions and Protocol for the OASIS Security Assertion Markup Language (SAML) V2.0", OASIS Standard saml-core-2.0-os, March 2005.

[RFC2865] Rigney, C., Willens, S., Rubens, A. and W. Simpson, "Remote Authentication Dial In User Service (RADIUS)", RFC 2865, June 2000.

[RFC3575] Aboba, B., "IANA Considerations for RADIUS (Remote Authentication Dial In User Service)", RFC 3575, July 2003.

[RFC3588] P. Calhoun, J. Loughney, E. Guttman, G. Zorn, J. Arkko, "Diameter Base Protocol", RFC 3588, September 2003.

7. Acknowledgments

TODO

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