RADIUS attributes commonly used in fixed networks

draft-klammorrissette-radext-very-common-vsas-00

Devasena Morrissette, Frederic Klamm, Lionel Morand

IETF 93, July 2015

Context

- The broadband Forum (BBF) is taking an inventory of all RADIUS attributes in their scope (WT-341).
- Part of these attributes are VSAs that can be found in several dictionaries.
- A subset of these VSAs are useful for, but not been specific to, the BBF.
- This is the set of attributes that we propose to make standard by submitting this draft into radext.
- The BBF expresses support to this work in a liaison from BBF to IETF.
- This should be followed by another step at the IETF, typically updating RFC4679 with new BBF Vendor Specific RADIUS attributes.

Proposed attributes 1/3

Routing context:

- **Virtual –Router-Id**
  - identifies exactly one virtual router when multiple, independent virtual routers co-exist on the same physical routing platform.

Policies & QoS:

- **Policy-Name**
  - identifies the policy to apply on the user session for the egress or ingress direction. The policy definition itself resides locally in the NAS.
- **QoS-Profile-Name**
  - identifies the QoS profile to apply on the user session. The QoS profile definition itself resides locally in the NAS.

Walled-garden services:

- **HTTP-Redirect-URI**
  - URI to which user originating HTTP requests are redirected by the NAS.
- **HTTP-Redirect-Profile-Name**
  - identifies a HTTP redirect profile to apply on the user session.

Proposed attributes 2/3

DNS:

- **Primary-DNS-Server-Address**
  - holds the IP address of the negotiated primary DNS server.
- **Secondary-DNS-Server-Address**
  - holds the IP address of the negotiated secondary DNS server.

Multicast:

- **IGMP-Enable**
  - indicates whether the IGMP protocol is enabled or disabled on the user interface upon connection establishment.
- **IGMP-Profile-Name**
  - identifies the service profile configured on the NAS and applied on the user session.
- **MLD-Enable**
  - indicates whether the MLDP protocol is enabled or disabled on the user interface upon connection establishment.
- **MLD-Profile-Name**
  - identifies the service profile configured on the NAS and applied on the user session.

Proposed attributes 3/3

Tunnel:

- **Tunnel-Virtual-Router**
  - identifies the virtual router name, such as the VPN instance of the tunnel context.
- **Tunnel-Max-Sessions**
  - specifies the maximum number of sessions that are allowed in a given tunnel.
- **Tunnel-Profile-Name**
  - identifies the profile that defines the tunnel, the subscriber session is tied to.
- **Tunnel-Terminate**
  - specifies the disconnect cause when a tunneled subscriber is disconnected.

Service:

- **Service-Name**
  - specifies the name of the service to be activated for a given subscriber session.
- **Deactivate-Service-Name**
  - specifies the name of the service to be activated for a given subscriber session.
- **Service-Accounting**
  - specifies whether accounting for a given service tied to a subscriber session is enabled or not.

Foreseen next steps

- Capturing new attributes, adding terminology, global tuning
  - rev.01
- Questions to radext
  - rev.02
- Adoption as WG document