

RADIUS extensions for DS-Lite

draft-ietf-softwire-dslite-radius-ext-04

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Main Changes

 Version -04 contains the changes to address the comments received from operations directorate review (Jouni Korhonen)

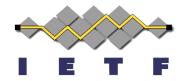


Comment:

Section 5 shows that the Access-Request message may contain the DS-Lite-Tunnel-Name attribute. What is the purpose of this? What is put into the attribute when sent in the Access-Request? What happens if the NAS includes the attribute but the AAA server does not recognize the attribute?

Proposed resolution:

This attribute MAY be used in Access-Accept packets as a hint to the RADIUS server; for example if the NAS is pre-configured with a default tunnel name, this name MAY be inserted in the attribute. The RADIUS server MAY ignore the hint sent by the NAS and it MAY assign a different AFTR tunnel name.



Comment:

What happens if the NAS does not receive DS-Lite-Tunnel-Name attribute in the Access-Accept? How does a NAS behave in that case? Does it fallback to some possibly pre-configured default? Does the NAS terminate the session towards the B4?

Proposed resolution:

If the NAS does not receive DS-Lite-Tunnel-Name attribute in the Access-Accept it MAY fallback to a pre-configured default tunnel name, if any. If the NAS does not have any pre-configured default tunnel name or if the NAS receives an Access-Reject, the tunnel cannot be established and NAS MUST terminate the session towards the B4.

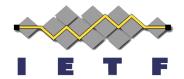


Comment:

Can the NAS have a pre-provisioned default AFTR name? Would the AFTR name received in Access-Accept then overwrite the default?

Proposed resolution:

If the NAS is pre-provisioned with a default AFTR tunnel name and the AFTR tunnel name received in Access-Accept is different from the configured default, then the AFTR tunnel name received from the AAA server MUST overwrite the pre-configured default on the NAS.



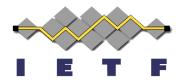
Comment:

In a case the B4 refreshes the DHCPv6 binding, would the NAS initiate a new Access-Request towards the AAA server? Would DS-Lite-Tunnel-Name attribute be included in the Access-Request in this case? What if the Access-Accept does not contain the DS-Lite-Tunnel-Name attribute? What happens if the NAS receives Access-Reject in this case?

Proposed resolution:

There are two different cases:

- DHCPv6 Renew
- DHCPv6 Rebind

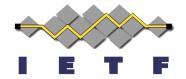


Proposed resolution: DHCPv6 Renew

After receiving the DS-Lite-Tunnel-Name in the initial Access-Accept the NAS MUST store the received AFTR Tunnel Name locally. When the B4 sends a DHCPv6 Renew message to request an extension of the lifetimes for the assigned address or prefix, the NAS does not have to initiate a new Access-Request towards the AAA server to request the AFTR tunnel name. The NAS retrieves the previously stored AFTR tunnel name and uses it in its reply.

Proposed resolution: DHCPv6 Rebind

The NAS receiving the DHCPv6 rebind message MUST initiate a new Access-Request towards the AAA server. The NAS MAY include the DS-Lite-Tunnel-Name attribute in its Access-Request. If the NAS does not receive the DS-Lite-Tunnel-Name attribute in the Access-Accept it MAY fallback to a preconfigured default tunnel name, if any. If the NAS does not have any preconfigured default tunnel name or if the NAS receives an Access-Reject, the tunnel cannot be established and NAS MUST terminate the session towards the B4 **IETF 81**



Comment:

Is RFC5176 CoA operation possible? If so, it would make sense to document that also. That would map to a Reconfigure message sent by the NAS to the B4

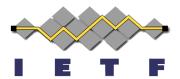
Proposed resolution:

The Change-of-Authorization (CoA) message [RFC5176] can be used to modify the current established DS-Lite tunnel. When the NAS receives a CoA message containing the DS-Lite-Tunnel-Name attribute, the NAS MUST send a Reconfigure message to a B4 to inform the B4 that the NAS has new or updated configuration parameters. Upon receiving the new AFTR tunnel name the B4 MUST terminate the current DS-Lite tunnel and the B4 MUST establish a new DS-LITE tunnel with specified AFTR.



Editorial changes

- Removed acronyms from the abstract
- Moved draft ietf-radext-ipv6-access from Normative to Informative references
- Defined the data type of the DS-Lite-Tunnel-Name as string



Questions?



Thanks!