

Attribute-Value Pairs For Provisioning Customer Equipment Supporting IPv4-Over-IPv6 Transitional Solutions

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Motivation

- In IPv4 to IPv6 transition, customer equipment may have to support one of the various transition methods that have been or are currently being defined for carrying IPv4 packets over IPv6.
- Each technique requires the provisioning of some subscriber-specific information on the customer edge device.
- In many networks, the subscriber information may be managed by AAA servers.
 - AAA servers needs to provide the information to the network server responsible for passing the information to the customer equipment.
- This document specifies Diameter attribute-value pairs to be used for that purpose.

Parameters Required By Each Transition Method

- DS-Lite
 - AFTR address;
 - An indicator that DS-Lite is to be used;
 - IPv4 address of B4 interface (optional)
- Public IPv4 over IPv6
 - A public IPv4 address;
 - IPv6 address of the border router
- Lw4over6
 - A public IPv4 address
 - LwAFTR address;
 - Port set identifier
- MAP-E
 - Mapping rules

Attribute-Value Pair Defined

- Border Router IPv6 Address
- IPv4 prefix or address
- IPv6 prefix or address
- Port set identifier
- Transmission method indicator
- NAT pool identifier
- V4 and v6 binding
- MAP rule

Next Step

- Comments?
- Move forward?