NetLMM WG
IETF-73

RADIUS PMIPv6

draft-xia-netlmm-radius-03.txt

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This document aims to provide RADIUS support for:
- MAG (NAS) to AAA interface
- LMA (HA) to AAA interface
- Accounting baseline

Define a general baseline that is needed by PMIPv6
Document Status

- Changes from -02 to -03 (Rather "big" rewrite of the I-D to match the latest progress around PMIPv6):
  - Removed dynamic MAG-LMA security association setup text -> out of scope
  - Removed DNS updates -> out of scope and concerns whether it would actually work
  - Removed home link emulation text -> not sure it fits in scope
  - Removed DHCP related text & attributes -> maybe we need to re-introduce if to allow dynamic assignment of a DHCP server
  - MAG to AAA and LMA to AAA interfaces described separately
  - Security consideration to cover AAA brokers, proxies etc
New Attributes

- **Mobile-Node-Identifier**
  - For the case when AAA needs to inform the MAG about the MN-ID to be used in PBUs

- **Service-Selection**
  - Indicate the default service to the MAG (e.g. when RFC5149 is used)

- **MIP6-IPv4-Home-Address**

- **PMIP6-MAG-Address**
  - Used for informational purposes only e.g. during accounting
Re-used Attributes

- draft-ietf-mip6-radius-06 has useful attributes that this I-D references to:
  - MIP6-HA attribute to carry IPv6 address of the LMA
  - MIP6-HA-FQDN contains a Fully Qualified Domain Name (FQDN) of the LMA
  - MIP6-HL-Prefix contains the MN-HNP of the MN
  - MIP6-Feature-Vector

- Three new Feature Vector flag bits are defined for PMIPv6:
  - PMIP6_SUPPORTED, IP4_HOA_SUPPORTED, LOCAL_MAG_ROUTING_SUPPORTED
MAG to RADIUS Server Interface

- Used for downloading the Policy Profile when a MN attaches, authenticates and authorizes to a PMIPv6 domain
- Defines an AAA-based LMA discovery solution
- Assignment of the MN-HNP & IP4-HoA if address pools managed by the RADIUS server
- MAG generated accounting
LMA to RADIUS Server Interface

- Authorization of the incoming PBU
- Assignment of the MN-HNP & IP4-HoA if address pools managed by the RADIUS server
- Updating the RADIUS server with the LMA address in the case the LMA was dynamically allocated by the MAG
- Possible MAG to LMA Security Association security related information retrieval
- LMA generated accounting
Open Topics

- Add session management to both MAG to AAA, and LMA to AAA interfaces
  - E.g. use RFC5176 Dynamic Authorization Extensions
- More text around different prefix/address assignment policies
- Detailed procedure descriptions for ending the mobility session and what happens in PMIPv6 error situations (e.g., the authorization of a PBU fails)
Questions?
Consider as a WG Item?
Thank you