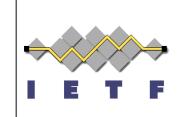
NetLMM WG IETF-73

RADIUS PMIPv6



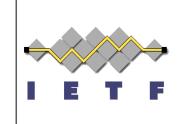
draft-xia-netlmm-radius-03.txt

Frank Xia Behcet Sarikaya Jouni Korhonen (ed.) Sri Gundavelli November 2008



Background & Solution

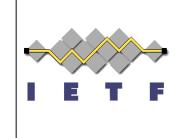
- This document aims to provide RADIUS support for:
 - MAG (NAS) to AAA interface
 - LMA (HA) to AAA interface
 - Accounting baseline
- Define a general baseline that is needed by PMIPv6



Document Status

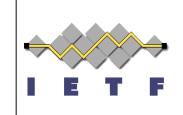
- Changes from -02 to -03 (Rather "big" rewrite of the I-D to match the latest progress around PMIPv6):
 - Removed dynamic MAG-LMA security association setup text -> out of scope
 - Removed DNS updates -> out of scope and concerns whether it would actually work
 - Removed home link emulation text -> 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



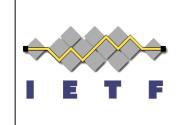
- draft-ietf-mip6-radius-06 has useful attributes that this I-D references to:
 - MIP6-HA attribute to carry IPv6 address of the LMA
 - MIP6-HA-FQDN contains a Fully Qualified Domain Name (FQDN) of the LMA
 - MIP6-HL-Prefix contains the MN-HNP of the MN
 - MIP6-Feature-Vector
- Three new Feature Vector flag bits are defined for PMIPv6:
 - PMIP6_SUPPORTED, IP4_HOA_SUPPORTED, LOCAL MAG ROUTING SUPPORTED

MAG to RADIUS Server Interface

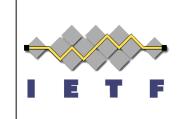


- Used for downloading the Policy Profile when a MN attaches, authenticates and authorizes to a PMIPv6 domain
- Defines an AAA-based LMA discovery solution
- Assignment of the MN-HNP & IP4-HoA if address pools managed by the RADIUS server
- MAG generated accounting

LMA to RADIUS Server Interface



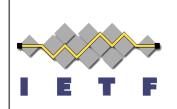
- Authorization of the incoming PBU
- Assignment of the MN-HNP & IP4-HoA if address pools managed by the RADIUS server
- Updating the RADIUS server with the LMA address in the case the LMA was dynamically allocated by the MAG
- Possible MAG to LMA Security Association security related information retrieval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



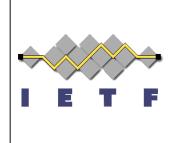
Open Topics

- 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