

Dynamic Care-of Address Support for PMIPv6

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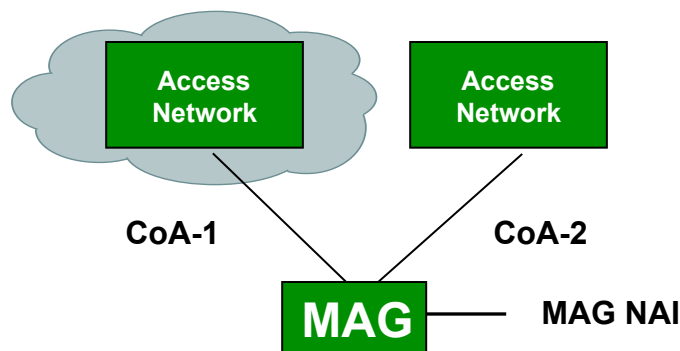
draft-gundavelli-netext-pmipv6-dynamic-coa-support

Motivation

- The local mobility anchor identifies the MAG based on the IP address. This IP address is the source address of the PBU and the authorization, security association are tied to this identifier. However, in many scenarios, IP address may not be a stable identifier. Considerations:
 - the IP address on the egress interface of the MAG is dynamically obtained
 - there can be multiple egress interfaces for the MAG and the MAG may move all subscriber sessions between those interfaces.
 - for supporting Bulk Revocation, RFC 5846 requires the MAG to present the MAG identifier. However, there is no definition for the MAG identifier
 - for supporting Authentication option, RFC 4283
- There is a need for the MAG to present a stable identifier. An identifier in the form of a NAI offers such stable identity. This document proposes to define a MAG Identifier option

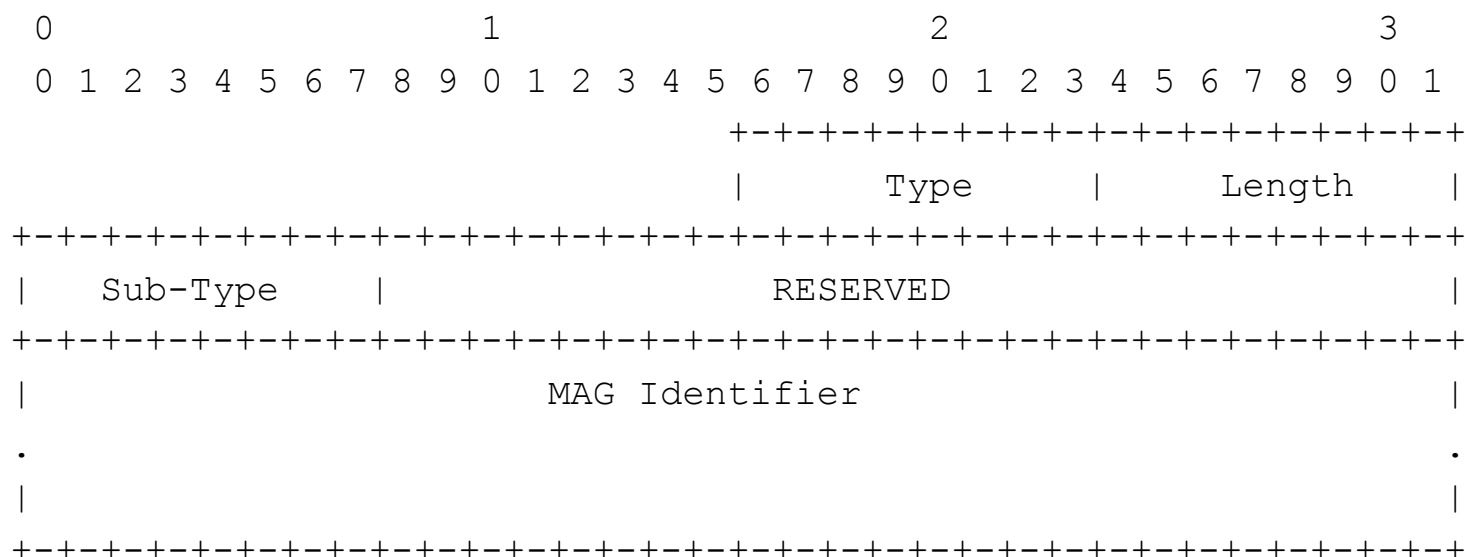
Motivation (Contd..)

- There can be multiple egress interfaces for the MAG and the MAG may move all subscriber sessions between those interfaces. LMA should have the ability to identify this intra-MAG handover event



MAG Identifier Option

The MAG Identifier options contains the MAG NAI.



1. The Sub-Type identifies the specific type of identifier field
2. This option can be present in all control plane messages from the MAG
3. Semantically the identifier is close to MAG NAI structure, depending on RFC 4282 encodings.

Thank You

