

Definitions of Managed Objects for MAP-E

draft-fu-software-map-mib-00

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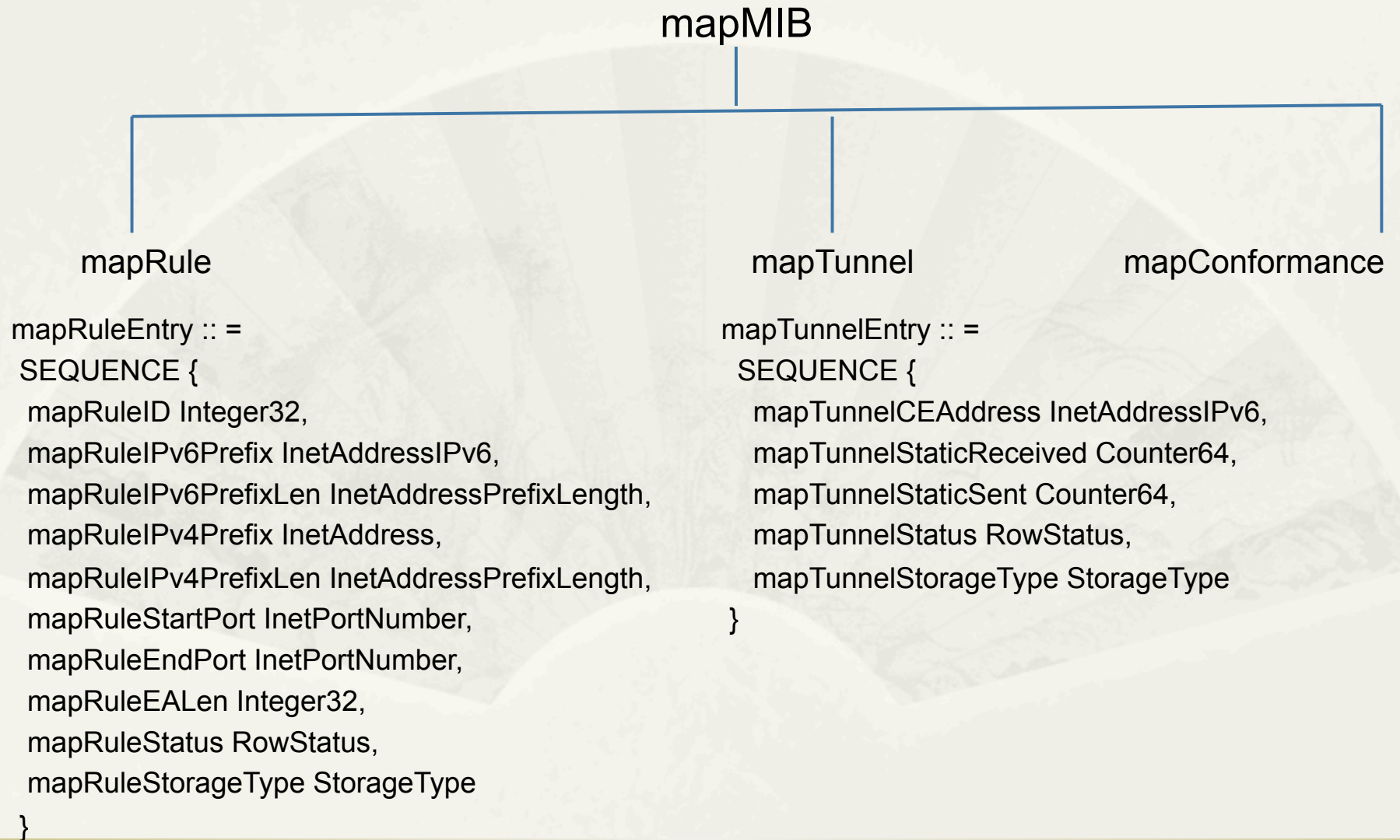
Why we need MAP-E MIB

- * [RFC 4087] defined tunnel MIB, supporting various tunnels such as IP-in-IP, GRE, etc.
- * However, “Tunnels” in a MAP-E BR is different with the “Tunnels” supported in [RFC 4087]
- * MAP-E derives stateless tunnels based on the mapping rules. We need to extend the tunnel MIB by some parameters of mapping rules.

What we need in the MAP-E MIB

- * Mapping Rules: which are essential information for MAP-E auto tunnels, and the only tunnel-relevant entries that must be stored in BR/CE.
- * Tunnel info: a tunnel in MAP-E BR means a specific CE connected/connecting to it.
- * Conformance (common requirement)

Subtree of MAP-E MIB



Comments and suggestions are welcomed!

Adopt as software WG item?

(Radius Attribute for MAP
to be continued in next slide)

Radius Attribute for MAP

draft-jiang-software-map-radius-02

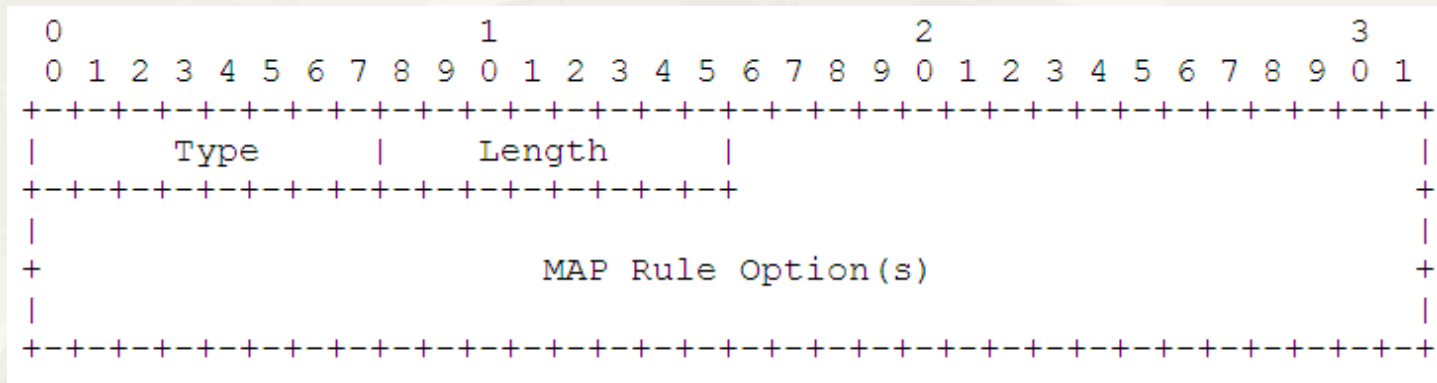
Sheng Jiang, Yu Fu, Bing Liu (Speaker), Peter Deacon

Background

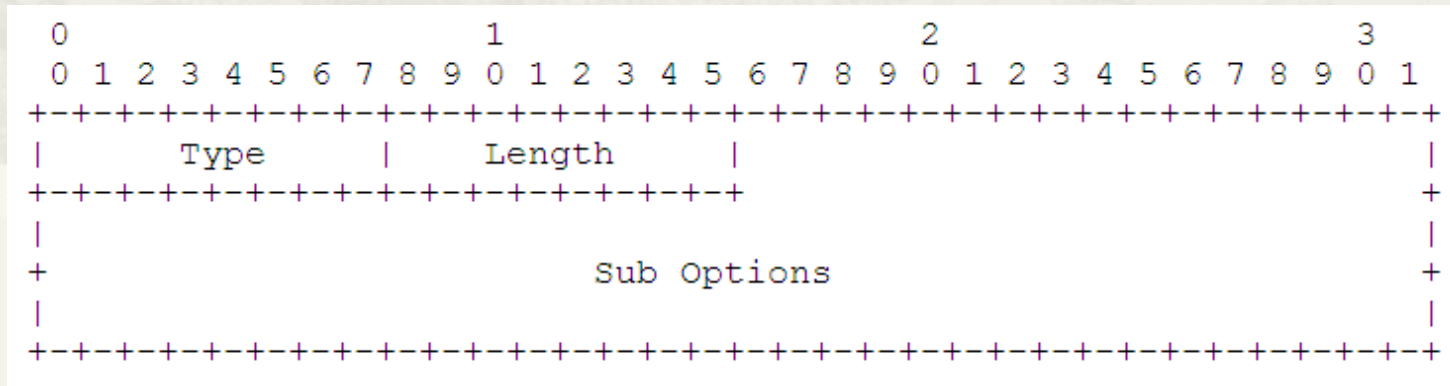
- * In many networks, user configuration information may be managed by AAA
- * In a fixed line broadband network, the Broadband Network Gateways (BNGs) act as the access gateway of users.
- * MAP configuration information may be stored in AAA servers and user configuration is mainly through DHCPv6 protocol between BNGs and hosts/CEs.
- * New RADIUS attributes are needed to propagate the information from AAA servers to BNGs.
- * The MAP RADIUS attribute are designed for providing enough information to form the correspondent DHCPv6 MAP option. [I-D.mdt-softwire-map-dhcp-option].

Attribute Definition

* MAP-Configuration Attribute



* MAP Rule Options



Attribute Definition

* MAP Rule Options

Type:

1 Default Mapping Rule

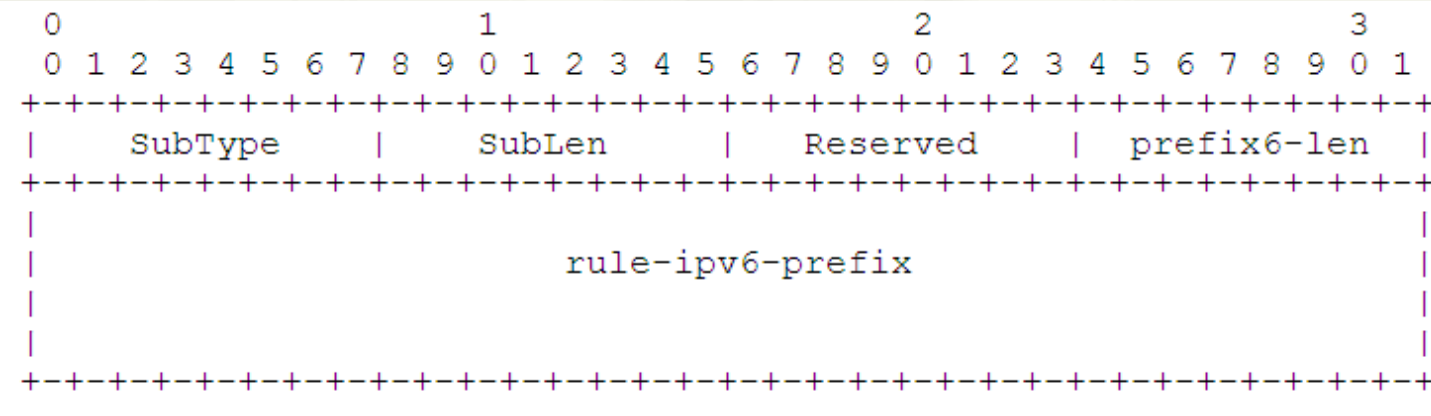
2 Basic Mapping Rule (Not Forwarding Mapping Rule)

3 Forwarding Mapping Rule (Not Basic Mapping Rule)

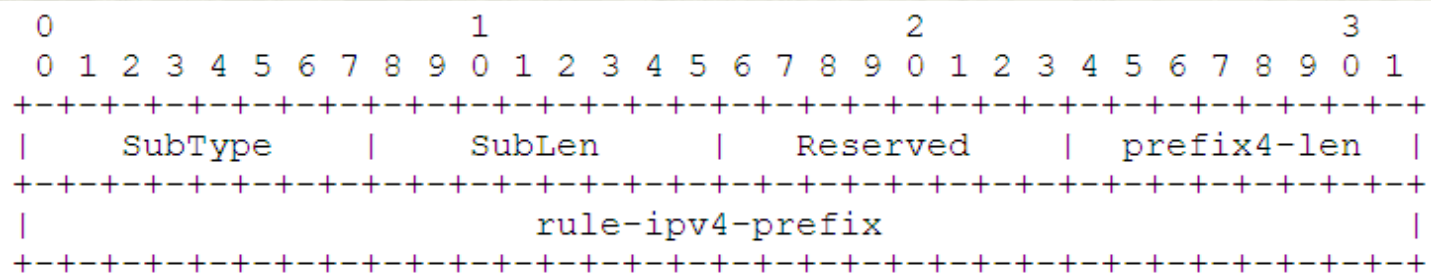
4 Basic & Forwarding Mapping Rule

Sub options

* Rule-IPv6-Prefix Sub Option

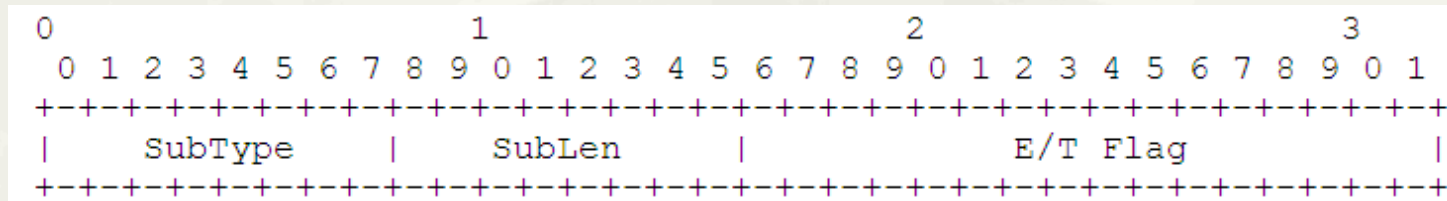


* Rule-IPv4-Prefix Sub Option

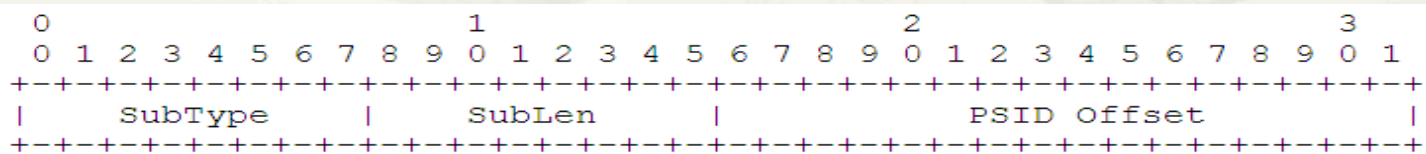
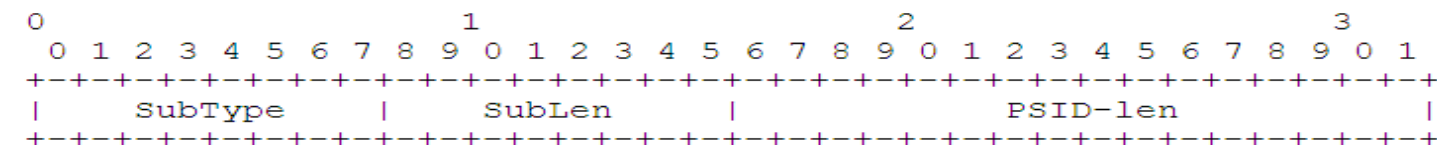
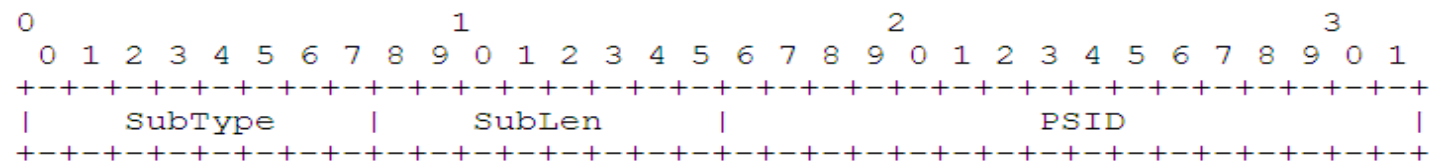


Sub options (cont.)

* Encapsulation/Translation Flag Sub Option



* PSID & PSID Length & PSID Offset Sub Options



Comments and suggestions are welcomed!

Adopt as softwire WG item?

Thank you!

6 Nov @softwire, Atlanta