

Civic Location ANI Suboption for PMIPv6

draft-pazhyannur-netext-civic-location-ani-subopt-00.txt

Rajesh S. Pazhyannur

Sebastian Speicher

Sri Gundavelli

CISCO

J. Korhonen

Broadcom

What is the problem

- RFC 6757 defines ANI option for PMIPv6.
- Includes sub-option for
 - Network Identifier: e.g., BSSID, SSID
 - Geo-Location Identifier: Lat/Long
 - Operator Identifier: e.g., MCC/MNC
- In many Wi-Fi deployments, especially indoors, challenging to get Geo-Location
- However, Civic Location is a valid option
- **Proposal. New Sub-option for Civic Location (RFC 5139--- PIDF)**

ANI Update-Frequency Option

- How are PMIPv6 be used in Wi-Fi deployments
 - PMIPv6 MAG on WLAN controllers (WLC)
 - PMIPv6 MAG on Wi-Fi APs
- ANI update behavior differs based on deployment
 - ANI provided at initial session establishment
 - However, when MAG on WLC client mobility between APs **may** not reported to LMA. As a result, ANI information like (BSSID, Geo-location) may be stale
 - However, when MAG on AP, client mobility between AP is reported to LMA. So ANI information is always current.
- Proposal
 - ANI Update-Frequency option: MAG can provide hint to LMA about how often it updates. MAG on AP may use a TTL of FFFFFFFF. MAG on WLC may use a TTL depending on how often it sends PBUs.

Next Steps

- Feedback
 - Bad idea/Indifferent/Good idea
- Considered for adoption as a working group document