Civic Location ANI Suboption for PMIPv6
draft-pazhyannur-netext-civic-location-ani-subopt-00.txt

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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 PBU's.
Next Steps

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