Background

• Initially to deploy IPv6 support for community Wi-Fi
  – Applies to other environments including environments where shared media is utilized
• Focus on IPv6 only for UE
  – And IPv6 for the underlying transport
• Ensure there is no impact to network performance care of IPv6
Overview

- Leveraging unique IPv6 prefixes per device
  - /64
- Maximize coverage for IPv6 only
  - IPv4 is out of scope but is present
- Addressing
  - SLAAC
  - Privacy and temporary addressing
  - No stateful DHCPv6 for address assignment
- Configuration
  - RDNSS
  - Stateless DHCPv6
- Initially focused on hosts, not routers
IPv6 Plumbing

• IPv6 Router Discovery
  - Ensure widest range of compatibility for Wi-Fi capable devices
  - Leverage RDNSS [RFC6106] to enable IPv6 only experiences

• IPv6 Neighbor Discovery
  - Minimize impact of link local communication impact to Wi-Fi (access) network
  - See I-D for specific attributes and configuration options

• Overarching objective is an IPv6 only experience
Futures

• Incorporate comments and edits based on WG feedback to date
• Update based on initial trials and deployment
• Post initial deployment assess support for IPv6 prefix delegation