



# ENTERPRISE IMPLEMENTATION VIEW OF ANDROID OS & DHCPV6 PD

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# IT ALL SEEMED TO BE NICE...UNTIL (1)

1. DHCPv6 Prefix Delegation (PD) is available from OS version 11
  - The Device must be enrolled in Google Play Store
  - Devices not enrolled need to get the update from the manufacturer – your device software lifecycle management is essential
2. The Device will receive a full /64
  - Change to an IPv6 Addressing Plan necessary
  - You will need to allocate an appropriate range (/48 - /52) for Android devices
  - Opportunity for NetSec/InfoSec to track individual devices by their unique IPv6 prefix
3. Enterprise routers and L3 switches need to start supporting DHCPv6 PD
  - Currently not available, the RFC is from October 2024

# IT ALL SEEMED TO BE NICE...UNTIL (2)

4. First hop routers must start supporting the new IPv6 Router Advertisement P-flag (RFC 9762)
    - Currently not available, the RFC is from June 2025
  5. /64 prefix per device = 1 entry/device in the routing table of the first-hop router
    - How many /64s can the routing table of your default gateways hold?
- RFC 9686 SLAAC Address Self-registration might be more useful but all the conditions above still apply
    - Do we trust the device?
  - [Critical blog](#) of Ivan Pepelnjak, it's worth reading