

# DHCP Options for APN and Attach Type

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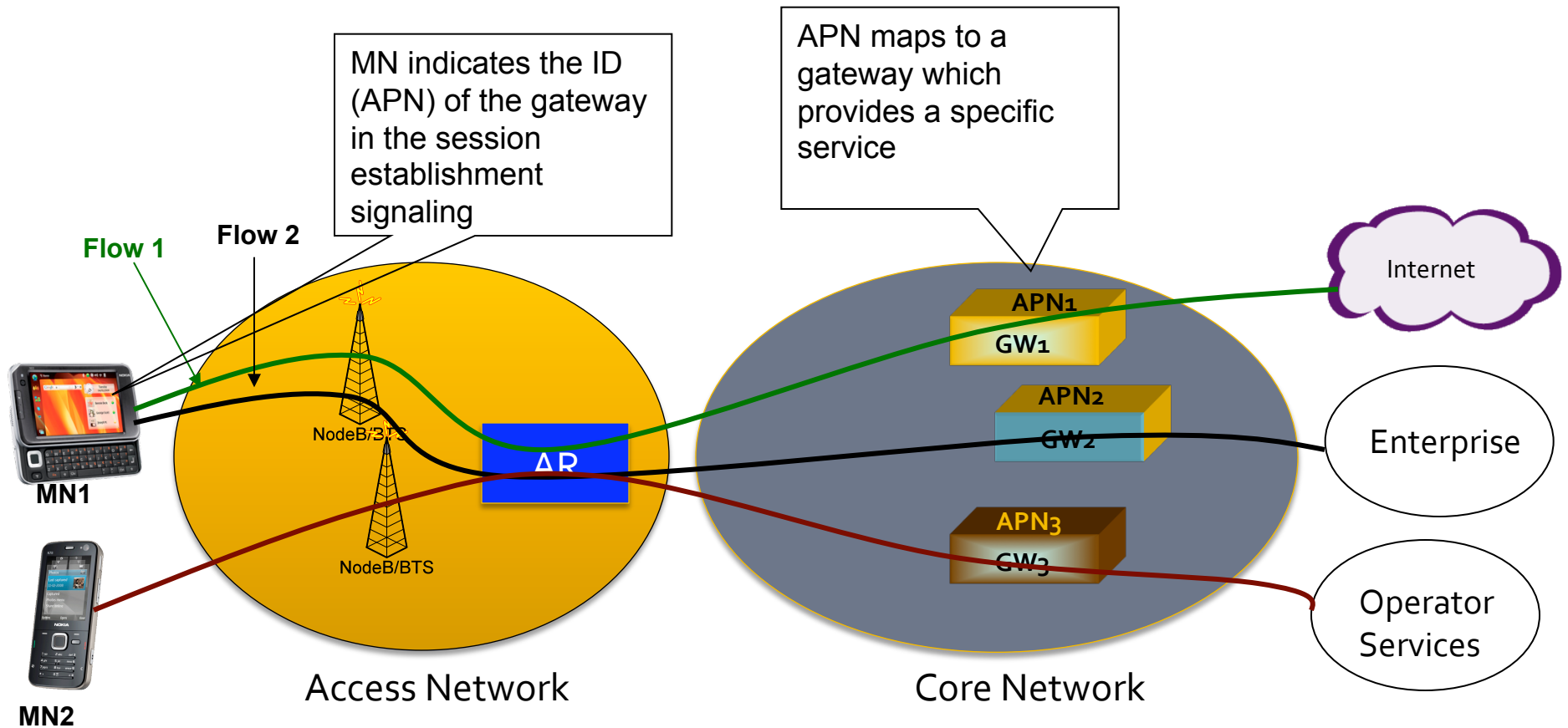
# Proposal

- Specify two new DHCP options for v6 and v4
  1. Access Point Name (APN)
  2. Attach Type

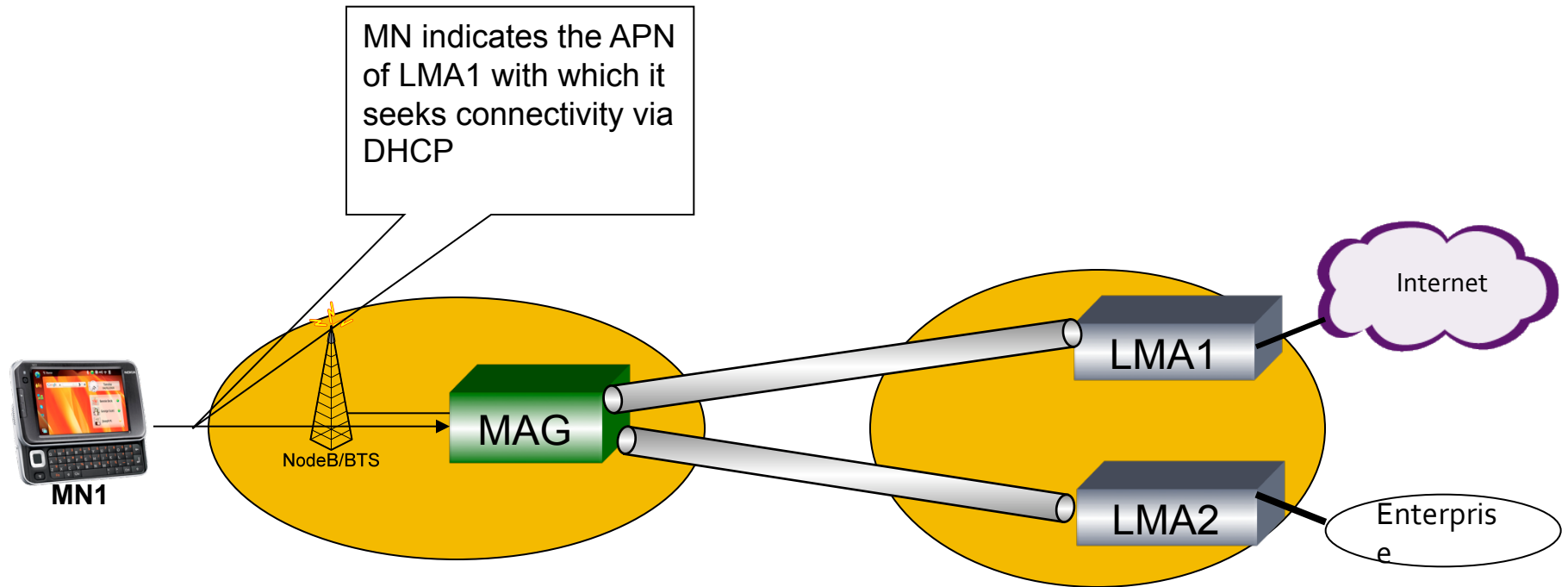
# Justification

- Access Point Name is used in GPRS networks
  - APN is in the form of an FQDN
- Enables the MN to indicate to the network a specific gateway to which connectivity is desired
- APN is carried in Layer 2 signaling between the host and access network
- APN has applicability in other wireless networks as well which do not have ability to send the APN via layer2
- Hence the need to define an alternative mechanism; Use of DHCP to carry the APN information is one option

# How is the APN used



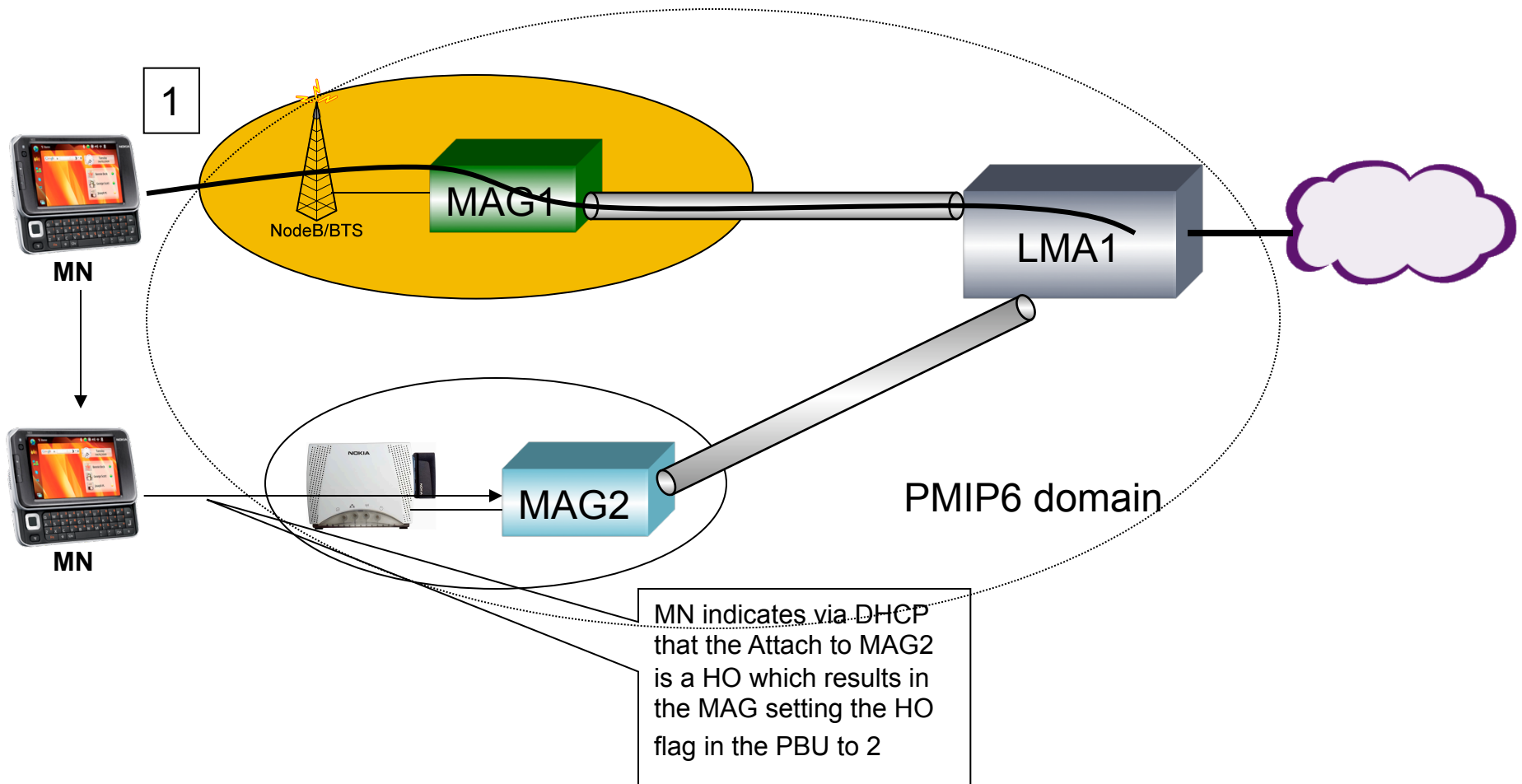
# Applicability in Proxy MIPv6 networks



# Attach type option

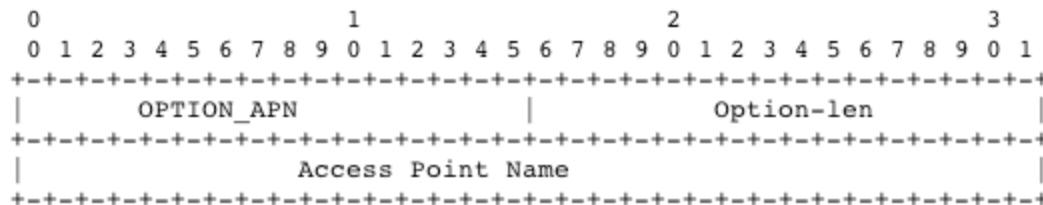
- In the case of network based mobility using Proxy MIPv6, an MN may move from one Access Router (MAG) to another
- The MN needs to indicate as part of the attach process if the new MAG should consider the attach as a Handover or an initial network entry
- The MAG uses this information to construct the Proxy Binding Update (PBU) and set the HO flag to the appropriate value

# Attach type indication

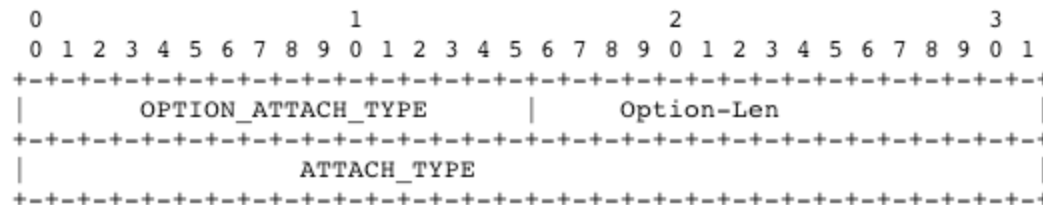


# APN and Attach type options for v6

## APN Option



## ATTACH\_TYPE Option





# Next steps

- Feedback on the proposed options sought from the WG
- Revise the I-D to also include the v4 options

