Extended Mobility Procedures for EVPN-IRB

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RECAP – Host Mobility Extensions for EVPN IRB Scenarios

• Mobility procedures for across various EVPN-IRB scenarios:
  • Fixed MAC <-> IP binding across host moves
  • Host IP moves to a different MAC binding
  • Host MAC moves to a different IP binding
  • Routed Overlay – IP mobility
• Duplicate Address Detection for advanced EVPN-IRB scenarios:
  • Duplicate MAC detection (baseline)
  • Duplicate IP detection with different MAC bindings (no duplicate MAC)
  • Duplicate IP detection in a routed overlay (no MAC advertisements)
• Duplicate Host Recovery for above scenarios
Updates

• New section on Mobility Convergence section (section 7.8).
  • Details specific triggers, where ARP/ND probes MAY be used for faster convergence on mobility events as well as how this may be achieved via a common MAC-IP -> MAC, child to parent resolution relationship that is also used for sequence number inheritance in the document.
Status

- Multiple Vendor Implementations.
- In WGLC queue.
- No outstanding comments / happy to get any additional comments before WGLC.