Protocol Summary

• Put DHCPv4 and DHCPv6 engines together, on both Server and Client sides
• Two new DHCPv6 msgs for conveying DHCPv4 msgs
• Support both IPv6 multicast and unicast
Comments during/after Berlin Meeting

• Broadcast / unicast information loss – Bernie, Tomek
  – **Background:** DHCPv4 Server may distinguish the client’s state by checking the dest addr type of a pkt
    • REBIND -> DHCPREQUEST in broadcast
    • RENEW -> DHCPREQUEST in unicast
  – **Background:** RFC5010 defines Relay Agent Flags Sub-option to convey the info if a DHCPv4 relay presents
  – **Problem:** Loss information in DHCPv4 over DHCPv6
    • Only DHCPv4 msgs are encapsulated without IPv4 header
    • Outer IPv6 header has no relationship with the information
Update (Solution)

• **Def**: Flags Field in Boot-request-v6 & Boot-reply-v6 msg
  – This field in Boot-reply-v6 message is reserved
• **Def**: Unicast Flag in Boot-request-v6 message
  – Indicates unicast or broadcast of the original DHCPv4 msgs if in IPv4
  – 1 -> unicast, 0 -> broadcast
  – Client needs to set this flag when sending the messages
• Thanks to Bernie and Tomek for their suggestions
Updates (Cont’)

• Outcome of Language session in Berlin
  – Improve the Abstract
    • Describe the scenario
    • Briefly summarize the mechanism
  – Some rewording

• Editorial changes
Comments received recently

• Use with stateless DHCPv6
  => Include Enable option and 4o6 Server Address option in every client’s requests (ORO) and server’s responses

• DHCPv4 over DHCPv6 service revoke
  => 4o6 DHCP client requests the two options in every client messages in ORO
  => If no Enable option, disable the DHCPv4 over DHCPv6 service
  => Information refresh time option (RFC4242)

• Editorial suggestions
Next Step

• -02 version posted
• No concrete changes to the current draft
• Will update based on the comments
=> Ready for WGLC
Backup

• Transaction-id in DHCPv4 message is the ‘right’ xid to use rather than DHCPv6 Transaction-id
  – No DHCPv6 Transaction-id field in new msgs