Agenda

• Motivation
• Solution
• Next step
Motivation

• ‘Relay Agent’ auto configuration

Use Cases:
• Zero-touch Service Activation
  – IP, IP/VPN etc.
• Automatic Relay-Agent configuration change
Solution

• New DHCP Option
  – Relay Agent Configuration Option
  – Includes sub-options

<table>
<thead>
<tr>
<th>Code</th>
<th>Len</th>
<th>Agent Configuration Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>TBD</td>
<td>N</td>
<td>c1 c2 c3 c4 cN</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SubOpt</th>
<th>Len</th>
<th>Sub-option Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N'</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>N'</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>N'</td>
<td></td>
</tr>
</tbody>
</table>
Solution
Relay Agent Procedures

• Relay Agent **appends the ‘relay agent configuration’ option** in the relayed DHCP message
  – Included Sub-options request various relay agent configuration information from the server

• Relay agent **removes ‘relay agent configuration’ option** from the DHCP response
  – Not visible to DHCP clients
Please note…

• This new option does not replace the ‘relay agent’ option
  – In fact, it is complementary

• This is not
Next Steps

• Request WG review & feedback
• Update the document
  – Sub-options
  – IPv6 details

• Is this useful?
  – If yes, then let’s explore WG adoption