

Layer 2 Relay Agent Information  
draft-ietf-dhc-l2ra-00.txt  
DHC WG

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# Layer 2 Relay Agent

- Describes the basic Layer 2 Relay Agent functionality in different network scenarios.
- Few comments were received and draft has been updated based on these comments.
- More review in Working Group?

Extensions to Layer 2 Relay Agent  
draft-kurapati-dhc-l2ra-extensions-00.txt

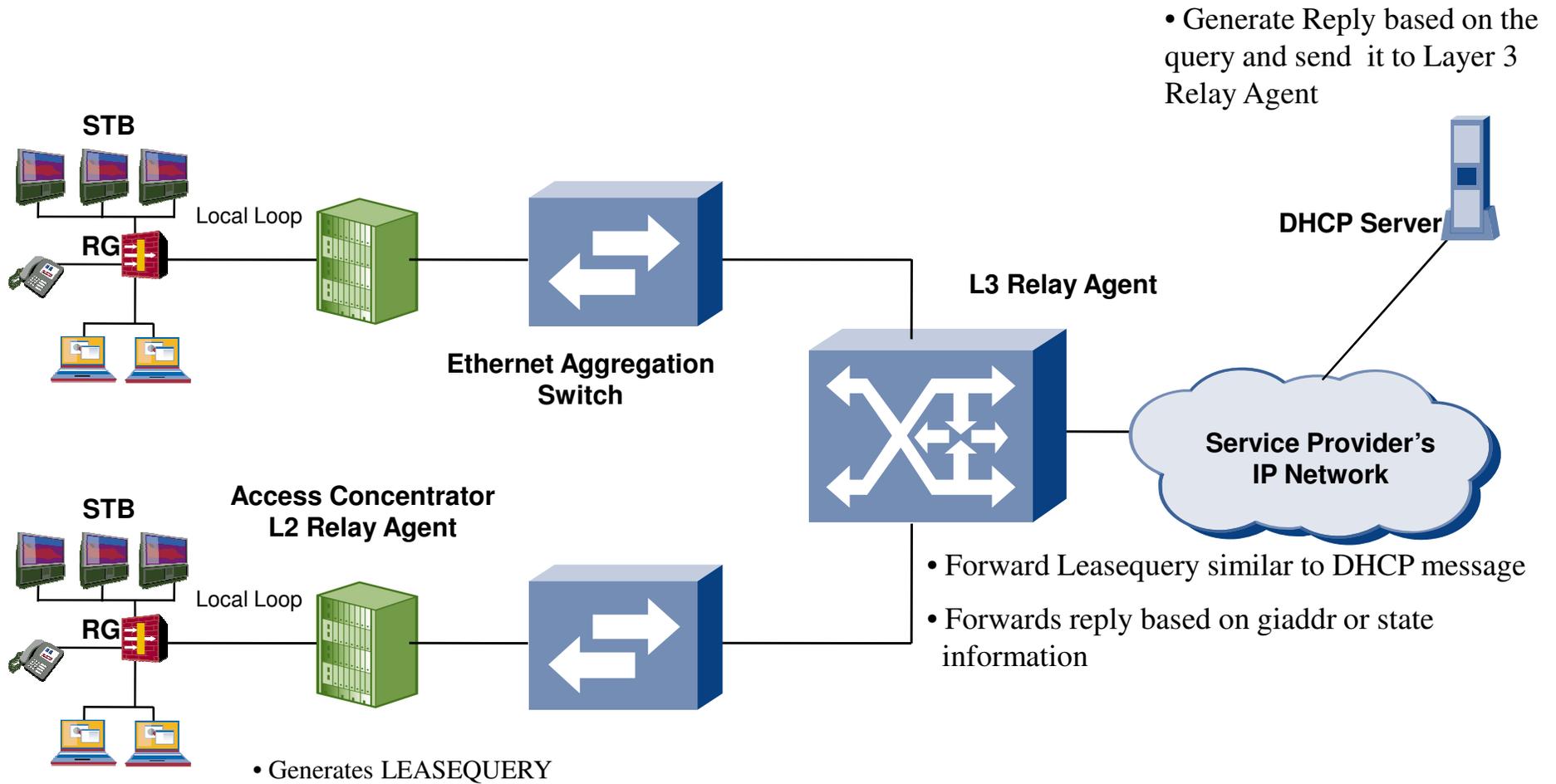
# History

- Previous draft draft-joshi-dhc-layer2-relay-agent-01
  - This draft explained L2RA and also suggested extensions to support Leasequery, prevent flooding between l2ra and l3ra etc.
- Chicago IETG WG meet saw favourable response for L2RA and subsequent discussions in WG mailing list resulted in conclusion that we should split the drafts into 2 categories
  - An informational draft explaining basic Layer 2 Relay Agent functionality. This informational draft was accepted as Working Group item in Vancouver IETF WG.
  - All extensions to L2RA in separate drafts after the informational draft is published.

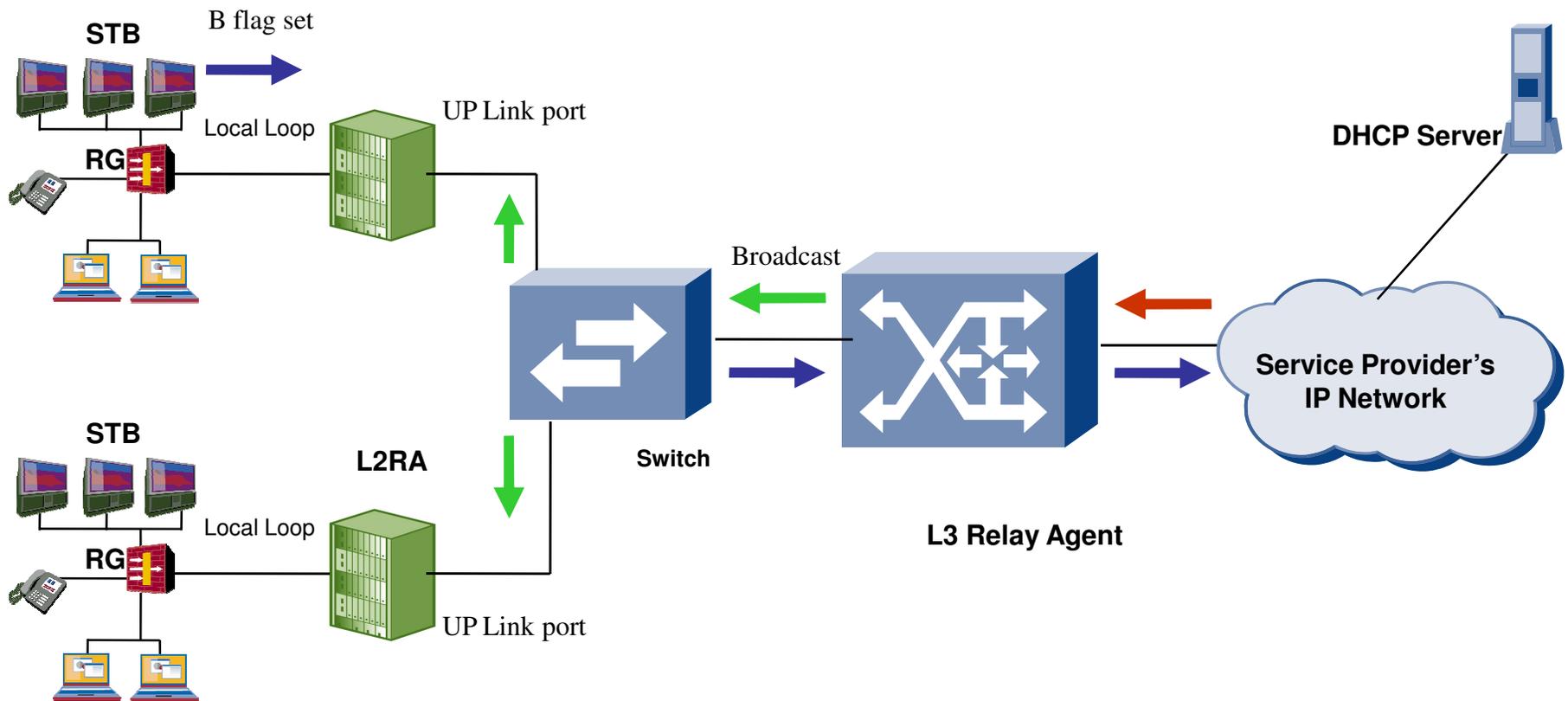
# Extension to Layer 2 Relay Agent

- Extending RFC 4388 to Layer 2 Relay Agent
  - Some Layer 2 Relay Agents glean lease information from DHCP messages and use it for anti-spoofing, MAC forwarding.
  - This information is lost when Layer 2 Relay Agent reboots.
- Prevention of flooding of DHCP messages between L3RA and L2RA
  - Layer 2 Relay Agent would broadcast a DHCP request message to all ports except on which it was received.
  - Layer 3 Relay Agent would broadcast A DHCP reply message towards the Layer 2 Relay Agent.

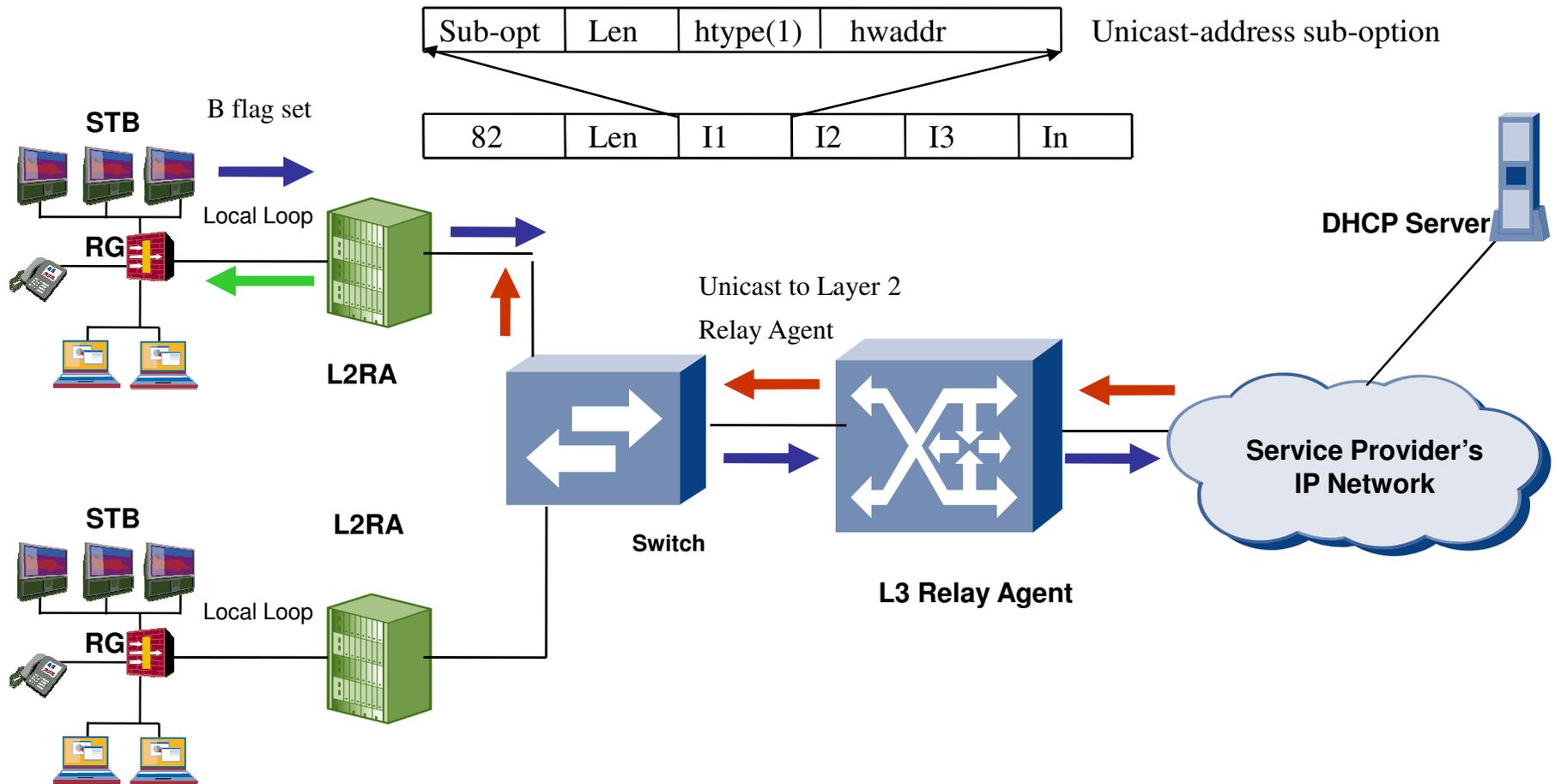
# Extension of RFC 4388 to Layer 2 Access Networks



# Flooding between L3RA-L2RA



# Prevention of flooding between L3RA-L2RA



# Next step

- More review in Working Group
- Accept as a working group item?