Encapsulating IP in UDP

draft-xu-softwire-ip-in-udp-01

Xiaohu Xu (Huawei) Lucy Yong (Huawei) Yiu Lee (Comcast) Yongbing Fan (China Telecom)

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Introduction

 RFC5640 describes a method for improving the load balancing effic FcC5694in desetvices a method for improving the load balancing Mesh service.

Uses the Session ID field (for L2TPv3 tunnels) or the Key field (for GRE tunnels) as a "load-balancing" field (a.k.a., entropy field).

However, it requires core routers to perform hash calculation on the "loadbalancing" field, which is not yet widely supported by existing core routers.

flo®inbestedstretringsboorfefrøettenslelready support balancing IP traffic Softwire of UDP packets, why not carry service over UDP tunnels?

of In this way, it enables existing core routers to perform efficient load-balancing

IP-in-UDP Encapsulation Format



Source Port:

 contains an entropy value that is generated by ingress AFBRs through performing hash calculation on certain fields in customer packets (e.g., five tuple of UDP/TCP packets).

Destination Port:

□ indicates the encapsulated payload in an UDP tunnel is an IP packet.

UDP Checksum:

 is recommended to be set to zero in order to simplify the process on tunnel egress nodes.

Next-steps

- Comments and Suggestions are welcome.
- Solicit WG adoption of this doc.