

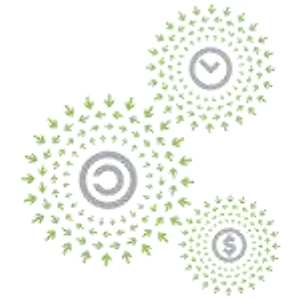
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EVPN – SAI TUNNEL

Prince Sunny, Microsoft



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Proposed Change (SAI PR# 1025)

- Introduce a P2P connotation to SAI Tunnel. Existing configuration is to hold the VTEP SIP with no DIP
- Introduce an optional “SAI_TUNNEL_ATTR_ENCAP_DST_IP” to **sai_tunnel_attr_t**

```
/**  
 * @brief Tunnel src IP  
 *  
 * @type sai_ip_address_t  
 * @flags CREATE_ONLY  
 * @default 0.0.0.0  
 */  
SAI_TUNNEL_ATTR_ENCAP_SRC_IP,
```

```
/**  
 * @brief Tunnel Dst IP  
 *  
 * @type sai_ip_address_t  
 * @flags CREATE_ONLY  
 * @default empty  
 */  
SAI_TUNNEL_ATTR_ENCAP_DST_IP,
```



Motivation/Approach

Motivation:

- Support Head End Replication for handling BUM traffic

Approach:

- Create a *Tunnel* for each remote DIP based on IMET routes
- Create *bridge-port* of type *Tunnel* with the created *Tunnel_ID*
- Add the tunnel *bridge-port* to the bridge



Alternate Proposal

- Use existing P2MP connotation and create L2MC group to configure flood vector

Design details – Rajesh Jain (Broadcom)

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