

DRAFT-MINTO-IDR-BGP-AUTODISCOVERY

IETF-111

JEYANANTH MINTO JEGANATHAN, JUNIPER NETWORKS
VENKATA SHIVA KRISHNA REDDY AVULA, JUNIPER NETWORKS

SCOPE

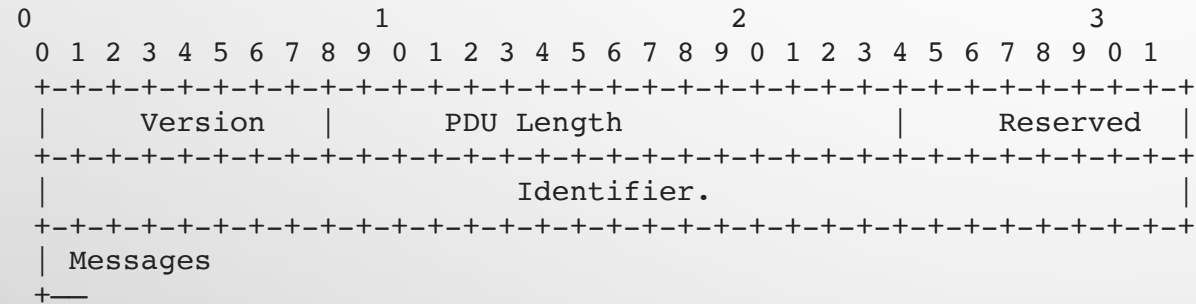
- REDUCE NODE SPECIFIC MUNDANE CONFIG
- CURRENTLY SCOPED FOR LAYER-3 SINGLE HOP
- ADVERTISE TRANSPORT PARAMETERS

PROTOCOL OPERATION

- BUILD TOP OF UDP MULTICAST AND SUPPORTS IPV4 & IPV6
- TLV BASED
- TLVS ARE GROUPED WITH MESSAGE
- LOOSELY COUPLED WITH BGP
- PERIODICALLY ADVERTISE TRANSPORT INFORMATION WITH EXPIRY TIME.
- REFRESHES ADVERTISED INFORMATION BEFORE IT EXPIRE
- REFRESHES INTERESTING EVENT SUCH AS NEW ADVERTISER FOR FAST DISCOVERY.

PDU LAYERS

- PDU-HEADER[MESSAGES[TLVS, ...] ...]



- IDENTIFIER: UNIQUELY IDENTIFIES PDU SENDER [BGP-ID].
- DRAFT VERSION 00 DEFINE 2 MESSAGES
 - SA BASE - FOR PROTOCOL OPERATION
 - BGP ADVERTISEMENT - BGP PARAMETERS.

SA BASE

- THE SA BASE MESSAGE IS MANDATORY MESSAGE AND MAINLY USED FOR THE PROTOCOL OPERATION.
- TLVS
 - REMAINING LIFETIME
 - SENDER DRIVEN LIFETIME
 - CONFIG SEQUENCE
 - AUTHENTICATION

BGP ADVERTISEMENT MESSAGE

- THE BGP ADVERTISEMENT MESSAGE DESCRIBES TRANSPORT PARAMETERS.
- TLVS
 - LOCAL ADDRESS
 - SECURITY TTL
 - SECURITY AUTHENTICATION
 - LINK ADDRESS
 - TRANSPORT PREFERENCE.
 - TCP MSS

THANK YOU 😊

- PLEASE REACH OUT TO US AT MINTO@JUNIPER.NET AND VENKATASHIVA@JUNIPER.NET