

DRAFT-MINTO-IDR- BGP- AUTODISCOVERY

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SCOPE FOR AUTO DISCOVERY

- Reduce mundane configuration
- Currently scoped for layer 3 single-hop
- Provide transport information for initial tcp connection set up

SERVICE ADVERTISEMENT PROTOCOL

- Based on UDP multicast
- Support for ipv4 and ipv6
- TLV based messages
- Advertise Transport information with expiry time
- Refresh advertise information before expiration
- Loosely coupled with BGP

PROTOCOL PDU LAYERS

- PDU: Header[Messages[TLVS]]
- Header contains: Version, Length, Identifier along with individual messages
- Identifier being used to determine sending device
- Draft describes two messages:
 - Service Advertisement Base message
 - BGP Advertisement message

SERVICE ADVERTISEMENT- BASE MESSAGE

- Mandatory message
- Used for protocol operation
- TLVs:
 - Lifetime
 - Sender driven
 - Config Sequence
 - Authentication

BGP SERVICE ADVERTISEMENT MESSAGE

- Minimal information for bgp peer bring up
- TLVs:
 - Local-address
 - Security TTL
 - Security Authentication
 - Link-address
 - Transport preference

EXPIRATION OF BGP PEER INFORMATION

- Protocol provides initial information to bring up bgp peering.
- Upon expiry, keep connections established until:
 - Operator configured interval for auto-discovery state.
 - Connection is terminated by remote-end (Recommended).

CHANGE IS TRANSPORT INFORMATION

- Change in config sequence number for peering-address needs connection termination.
- To ensure latest auto discovery information is used for connection establishment.

THANK YOU!!