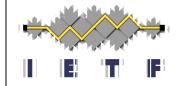
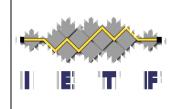
## OSPF IBGP Peer Discovery IETF 98, Chicago

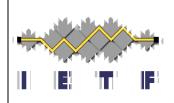
Acee Lindem, Cisco Keyur Patel, Arrcus Shawn Zandi, Linkedin Robert Raszuk, Bloomberg



## BGP Router-Reflector and iBGP Peer Discovery



- Allow BGP Router-Reflectors to advertise their capability and peering addresses throughout an OSPF Routing Domain
  - Allows dynamic discovery of route reflectors by clients
- Allow iBGP Peers to advertise this capability and peering addresses throughout an OSPF Routing Domain
  - Allows a full mesh of iBGP peer sessions to be established.



## **Proposed OSPF Solution**

- Advertise using in OSPF Router-Information LSA
  - OSPFv2 Opaque Router-Information (RI) LSA
  - OSPFv3 Router-Information (RI) LSA
  - Can be area or domain-wide scope
- RI LSA BGP Peer TLV
  - Route-Reflector Capability
  - Local AS
  - Peering Address and AFI/SAFI Tuples (wildcard for all MP BGP negotiated AFI/SAFIs)
  - Multiple TLVs can be advertised with different peering addresses
  - Local matter how to handle multiple peering addresses for the same AFI/SAFI
- Receiving Router can establish BGP sessions with all IBGP peers or only router-reflectors (local matter)

## **Next Steps**

- Discussion and Gauge Interest
- Progress based on interest

