BIER Ingress Multicast Flow Overlay using Multicast Listener Discovery Protocols

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BIER MLD/IGMP

- MLDv2/IGMPv3 overlay is used to inform ingress BIER routers which egress BIER routers should receive which flows
- Added text about MTU
  - IGMPv3 reports can get big by including a large number of groups
  - Need to make sure report is not too big to reach all potential ingress routers
  - One can use a safe configurable value, or rely on MTU discovery
  - Prefer to minimize the number of messages by using the maximum size possible
- No other changes
- Uses configurable multicast groups for all BMLD queriers/nodes
  - Prefer not to make use of existing groups for all-nodes and all MLDv2 routers as it is domain-wide rather than link-local
    - Depends whether we regard BIER as one hop, as a single link.
  - Allow multiple instances, e.g. multiple sub-domains, by using different group addresses
    - Most deployments probably need only 1 instance.
  - Should we request new well-known groups from IANA to simplify configuration?
  - IGMP overlay requires no configuration if we do this.