

# Multicast Requirements for 2015

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# Recent New Approaches/ Enhancements to Mcast Protocols and Arch

- Recent proposals
  - draft-ietf-pim-source-discovery-bsr
  - draft-sami-pim-ng-06
  - draft-yong-pim-igp-multicast-arch-01
  - draft-anish-reliable-pim-registers-00
  - draft-anish-pim-stream-discovery-00
  - BIER
- All appear to attempt to match existing functionality for mcast
  - Trying to meet requirements of mcast devised ~ 20 years ago
  - Should we think about modernizing those requirements?

# Modernizing Mcast Requirements

- Considerable effort was expended designing protocols to meet the expectations for mcast in the 90's
  - Are those expectations still valid?
- Examples:
  - Bursty source apps
    - Do we still need it?? It's very expensive
  - Network-based source discovery
    - Can we deprecate ASM? It's very expensive

# Modernizing Mcast Requirements (cont)

- Interdomain support?
  - So much focus is on IPTV/walled garden deployments
  - Should we give up on OTT Mcast?
- Scaling- see above
  - on IPTV/walled garden deployments are more predictable and controlled than OTT could *potentially* be

# Outlook

- Should MBONED be revisiting the assumptions and requirements of mcast to provide input to other WGs that are developing mcast protocols?