

# **draft-tarapore-mbone- multicast-cdni-02**

Percy S. Tarapore, AT&T

Robert Sayko, AT&T

Ram Krishnan, Brocade

# Scope of Document

- Develop *Best Current Practice* (BCP) for Multicast Delivery of Applications Across Peering Point Between Two Administrative Domains (AD):
  - Describe Process & Establish Guidelines for Enabling Process
  - Catalog Required Information Exchange Between AD's to Support Multicast Delivery
  - Limit Discussion to “Popular Protocols” (PIM-SSM, IGMPv3, MLD)
- Identify “Gaps” (if any) that may Hinder Such a Process
- Gap Rectification (e.g., New Protocol Extensions) is Beyond the Scope of this BCP Document

# Revision History

- Vancouver 2012 - Revision 0 Proposed as a BCP Describing Process for Delivering Content by Multicast Across Content Distribution Network Interconnections (CDNi):
  - Feedback Received:
    - Specific case for CDNi only & Would Require Descriptions of CDN Interconnection Architectures
    - Possible Conflict with CDNi WG
- Atlanta 2012 – Revision 1 Preempted due to Hurricane Sandy
- Orlando 2013 – Revision 2 Proposed as General Case for Multicast Delivery of Any Application Across two AD's:
  - CDNi Case is One Example of this General Scenario

# Overview of Process (Section 2)

- Two Independent AD's Connected via Peering Point
- Peering Point is:
  - Multicast Enabled, or
  - Provisioned via a Tunnel which is Either:
    - GRE Tunnel, or
    - AMT
- Application (e.g., Live Stream) Source in Domain A & End User (EU) Associated with Domain B.
- EU (One of Many EUs) Requests Application
- Application Delivered via Multicast from Source Through Peering Point to EU in Domain B

# Multicast Peering Point Requirements (Section 3)

- Native Multicast Enabled Peering Point
- Peering Point Provisioned with GRE Tunnel
- Peering Point Provisioned with AMT

# Supporting Functionality (Section 4)

- Network Transport & Security Guidelines
- Routing Aspects & Related Guidelines
- Back Office Functions – Billing & Logging Guidelines
- Operations – Service Performance & Monitoring Guidelines
- Reliability Models/Service Assurance Guidelines
- Provisioning Guidelines
- Client Models
- Addressing Guidelines

# Proposal

Request Approval for Accepting draft I-D as an MBONE  
Working Group Draft

Thank You