Since last ietf:

• Removed the ipv6 scenarios
  • replaced with transport independent and native ipv6 models
• Divided requirements into mandatory and optional
• Removed commentary from the solutions evaluation

In newest -06 rev, comments from Greg:

• “...which depend on these same unicast technologies to traverse through Non-BFR routers”.
• “the BIER header is integrated into the IPv6 extension header and processing of the BIER header (e.g., the BitString) is implemented as part of the IPv6 extension header processing.” instead of BIER integrated into the IPv6 data plane
Draft Purpose

• Specify the requirements for transporting packets, with bier headers, in an IPv6 environment.
• Summarize solutions (in appendix).
• Help the BIER WG come to a conclusion, outside the draft, on which solution(s) to rally behind and adopt.
Encapsulation Approaches

• Transport-Independent Model approaches
  • Transport-Independent BIER [I-D.xu-bier-encapsulation]
  • BIERin6 [I-D.zhang-bier-bierin6]

An IPv6 tunnel works as a link-layer of BIER, and BIER works as a transport-independent layer (or layer-2.5) over a virtual-link (IPv6 tunnel).
Encapsulation Approaches

- Native IPv6 Model approaches
  - BIER-over-IPv6 [I-D.pfister-bier-over-ipv6]
  - BIERv6 [I-D.xie-bier-ipv6-encapsulation]

The BIER header is integrated into the IPv6 extension header and processing of the BIER header (e.g., the BitString) is implemented as part of the IPv6 extension header processing.
Requirements

Mandatory
- L2 agnostic
- Support BIER architecture
- Conform to existing IPv6 Spec
- Support deployment with Non-BFR routers
- Support inter-AS multicast deployment
- Support Simple Encapsulation
- Support Deployment Security

Optional
- Support MVPN
- Support OAM
- Support IPSec
- Support Fragmentation
- Support hardware fastpath
Summary

Has it helped?

• Yes? Please consider solution adoptions
• No? What is it lacking?