BIER IPv6 Requirements
draft-ietf-bier-ipv6-requirements-03

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Mike McBride @Futurewei
Rajiv Asati @Cisco
Jingrong Xie @Huawei
Senthil Dhanaraj @Huawei
Since last ietf:

- Continued developing the requirements section.
- [https://github.com/mmcbride7/bier-v6-requirements](https://github.com/mmcbride7/bier-v6-requirements)
- Removed solutions pro’s/con’s wording.

For next rev:

- Remove all reverences to SRv6 - Tony
- Move solutions summaries to appendix – Rajiv
- Modify req’s per feedback from today
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.
Requirements

4.1. Agnostic to the underlying L2 data link type
4.2. Should not require hop-by-hop modification of the IP SA field. Should use an IPv6 unicast address in the DA
4.3. Should not require the BFRs to inspect or change layer 4.
4.4. Should not allow a multicast address to be put in the IP SA field
4.5. Should not assume that bits never get set incorrectly
4.6. Should not require changes in SA filtering procedures
4.7. Should be possible to support the entire BIER architecture
4.8. Should avoid requiring different encapsulation types
4.9. Should process and forward BIER packets in hardware fast path
4.10. Must conform to the IPv6 specification as described in RFC8200
4.11. Must support fragmentation
4.12. Should support IPv6 security including AH/ESP extension headers
Summary

• Not quite ready for wglc, will be by 107
• Please continue commenting on the draft