S-BFD Update

IETF 91, Honolulu, USA

Authors/Contributors/Contributions-by:

Many BFDers ... (too many to list here)
Thanks to those contributed!!

Presenter:

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Agenda

- Since IETF90
- Where we are
- S-BFD SR document
- S-BFD Alert Discriminator document

Since IETF90 ...

When	What	Details
Aug 2014	S-BFD Base & IP & SR documents restructured	 Base doc describes the S-BFD protocol IP doc describes UDP + IP procedures SR doc describes UDP + IP procedures (more on SR doc later)
Sept-Oct 2014	WG adoptions	 S-BFD IP document adopted by BFD WG S-BFD OSPF adv doc adopted by OSPF WG S-BFD ISIS adv doc adopted by ISIS WG
Oct 2014	S-BFD Alert Discriminator document updated	 Proposes zero(0) as the Alert Discriminator (more on Alert Discriminator later)
Oct 2014	S-BFD UDP port allocation	Expert review process requested

Where we are ...

Document Type	Documents	Next Steps
WG Documents	 draft-ietf-bfd-seamless-use-case draft-ietf-bfd-seamless-base draft-ietf-bfd-seamless-ip draft-ietf-ospf-sbfd-discriminator draft-ietf-isis-sbfd-discriminator 	 Seeking reviews and comments Implementation underway, waiting to validate technical accuracy Progress use case doc. Progress base/ip docs soon.
Individual Documents	 <u>draft-akiya-bfd-seamless-sr</u> <u>draft-akiya-bfd-seamless-alert-discrim</u> 	Described in next few slides

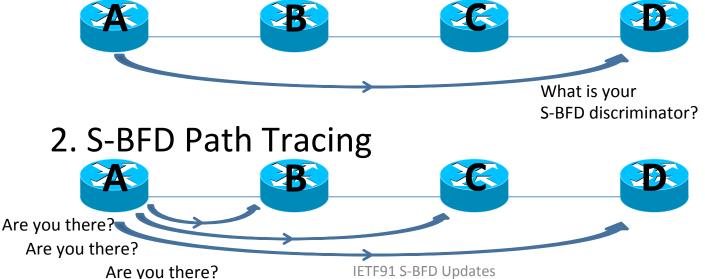
draft-akiya-bfd-seamless-sr

- Simple document. Points to S-BFD IP doc for following points:
 - UDP ports (ctrl and echo)
 - Packet demuxing
 - Initiator & responder procedures
- Half of the doc describes S-BFD echo on SR:
 - semi-controlled return path
 - fully controlled return path
- (1) seeking comments, (2) present in SPRING in Dallas and (3) request for WG adoption

draft-akiya-bfd-seamless-alert-discrim

- Alert discriminator basic idea:
 - Have one S-BFD discrim which all devices support
 - Use diagnostic code to suggest instructions
- Why? Two extended S-BFD use cases:





draft-akiya-bfd-seamless-alert-discrim

- Proposes to reserve S-BFD discriminator zero(0) as the alert discriminator.
- Diagnostic code within the alert discriminator contains instructions.

Value	Alert Discriminator Diagnostic Code Name	Reference
0-7	Experimental	This document
8-28	Reserved	This document
29	Target S-BFD Discriminator Discovery	This document
30	S-BFD Path Trace	This document
31	Not Supported	This document

draft-akiya-bfd-seamless-alert-discrim

- Seeking reviews and comments
- In particular:
 - Should the extended S-BFD use cases move to draft-ietf-bfd-seamless-use-case?
 - Should the alert discriminator proposal remain in this doc or move to draft-ietf-bfd-seamless-base?
 - What are additional security concerns and how do we mitigate?

Thank you!

Questions/Comments?