

SBFD for VCCV

(draft-gp-pals-seamless-vccv,
draft-gp-l2tpext-sbfd-discriminator)

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Problem Statement and Scope of work

- Define behavior of SBFD on the VCCV of signaled and static PWs
 - L2TP signaled PW
 - Static PW
 - MPLS LDP signaled PW not considered in this revision (future)
- Reuse encapsulations and protocol procedures of RFC5885 and define what is additionally needed for SBFD.
 - New CV types required for SBFD Async.
 - SBFD echo is not in scope.
 - SBFD provides VCCV based fault detection only.
 - VCCV based Fault detection and Status signaling is out of scope

Details – 1/2

- SBFDD discriminator advertisement options:
 - Use provisioned SBFDD discriminators
 - Use Alert discriminator (draft-akiya-bfd-seamless-alert-discrim)
 - Use L2TP for advertisement (draft-gp-l2tpext-sbfd-discriminator)
- SBFDD encapsulation:
 - IP/UDP based encapsulation:
 - Use IANA assigned SBFDD Async UDP destination port
 - L2SS and PW-ACH based encapsulation:
 - New IANA type requested for SBFDD

Details – 2/2

- SBFDF Initiator operation:
 - Two new CV types requested for SBFDF operation.
 - Option1: Use two reserved bits of the existing parameter defined by RFC 5885
 - Option2: Use bits from the VCCV extended CV parameter TLV (RFC7189)
- SBFDF Reflector operation:
 - Reuse reflector operation from draft-ietf-bfd-seamless-base.
- Capability selection:
 - What should be the order of preference (if any) between SBFDF and BFD:
 - Can we make them independent? i.e. no order of preference specified between SBFDF and BFD.

Next Steps

- Requesting comments from the WG.
- Close off on the open items.
- Submit a new revision and ask for WG adoption.