# 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

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

# Details – 2/2

- SBFD Initiator operation:
  - Two new CV types requested for SBFD 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)
- SBFD Reflector operation:
  - Reuse reflector operation from draft-ietf-bfd-seamless-base.
- Capability selection:
  - What should be the order of preference (if any) between SBFD and BFD:
    - Can we make them independent? i.e. no order of preference specified between SBFD and BFD.

# Next Steps

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