Protocol actions – VR-based PPVPNs

Potential protocol dependencies of

draft-ietf-ppvpn-vpn-vr-03.txt

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Virtual router (VR) – Potential Protocol Dependencies

- Key Requirement: Exchange VPN-ID among VRs
    - For auto-configuration; not needed for VR operation if configuration is done by network management system
    - VPN-ID : RFC 2685 or similar
    - Auto-discovery (like draft-ietf-ppvpn-auto-02.txt) can do this where BGP extensions are used for auto-discovery

- IPsec-based exchange of VPN-ID may need to be defined - some likely candidates (in order of preference):
    1) Use a new ISAKMP payload type – the Traffic Selector (TS) payload (draft-ietf-ipsec-ikev2-02.txt) looks good
    2) New Identification Type in ISAKMP Identification payload
    3) New Notification Message type (??)
    4) New Vendor ID payload – reserved vendor type (??)