

PPVPN WG

- Chair(s):
 - Rick Wilder richard_h_wilder@yahoo.com
 - Marco Carugi marco.carugi@francetelecom.com
- Sub-IP ADs ; Technical Advisor
 - Scott Bradner, Bert Wijnen ; Rob Coltun
- Mailing List (sorry for recent problems !)
 - Discussion: **ppvpn@zephion.net**
 - (Un)Subscribe: **ppvpn-request@majordomo.zephion.net**
with (un)subscribe in the body of the message
- Archive and informal PPVPN server (WG minutes, presentations, drafts, ITU related stuff)
 - **<http://ppvpn.francetelecom.com>**

Administrativa

- Minute taker : Ananth Nagarajan
- Blue sheets : please circulate
- Speakers please :
 - respect time
 - no presentation of your IDs, just overview
 - focus on issues and future steps
 - later, send us please your presentation (to be posted on the PPVPN informal server)

PPVPN London agenda

Planned time is 2H45, but we should be able to gain some time

Sorry for reduced slots.

- Agenda bashing - chairs
- PPVPN work status - 10 min - Marco Carugi
- PPVPN Service requirements update - 5 min - Dave McDysan

draft-ietf-ppvpn-requirements-02.txt

Changes from 00, open issues, future usage

- PPVPN Framework update - 5 min - Muneyoshi Suzuki

draft-ietf-ppvpn-framework-01.txt

Changes from 00, open issues, future usage

- PPVPN CE-based framework using IPsec - 10 min - Jeremy De Clercq

draft-ietf-ppvpn-ce-based-00.txt

Just ID overview, future steps, open issues

- L2 point-to-point VPN space (requirements, solutions):

Discussion on open issues, solution convergence, WG IDs - 10 min- related ID authors/all

Related IDs : draft-ietf-ppvpn-l2vpn-00.txt, draft-kompella-ppvpn-l2vpn-00.txt,
draft-shah-mpls-l2vpn-ext-00.txt, draft-shah-mpls-l2vpn-reduce-00.txt

(draft-martini-l2circuit-trans-mpls-07.txt)

- BGP-MP for layer 2 VPN membership discovery

draft-tsenevir-bgp-l2vpn-01.txt - 5 min - Tissa Senevirathne

Just ID overview, open issues and future work, how to deal with

- L2 Metro VPN space (TLS requirements, solutions):

- Report from TLS design team activity - dt members

Req and framework IDs (10 min) :

draft-tsenevir-l2-req-01.txt, draft-ouldbrahim-ethernet-l2vpn-requirements-00.txt,

draft-heron-ppvpn-vpsn-reqmts-00.txt, draft-augustyn-vmi-m2m-arch-00.txt,

draft-senevirathne-vmi-frame-01.txt

Solution-oriented IDs (10 min):

draft-lasserre-tls-mpls-00.txt, draft-vkompella-ppvpn-vpsn-mpls-00.txt

Open issues, future steps, solution convergence

- Brief discussion : issues, solutions, WG IDs - 5 min - all

- L3 VPN space

Report on VPN MIB progress, issues, future steps - 10 min - Thomas Nadeau, Elwin Stelzer

Related IDs : draft-nadeau-mpls-vpn-mib-04.txt, draft-elwin-ppvvpn-vr-mib-00.txt

- Feedback from SPs on deployment of candidate solutions - 20 min

- rfc2547bis - 10 min - EQUANT - Laurent Perrin

- draft-ietf-ppvvpn-vpn-vr-00.txt - 10 min - SAVVIS - Geoff Symonds

- Applicability Statement guidelines - 10 min - Junichi Sumimoto

Just overview of main concepts, open issues, possible future steps

draft-sumimoto-ppvvpn-applicability-guidelines-00.txt : not submitted (just sent to the list),

available at <http://ppvvpn.francetelecom.com> ->Related Internet drafts-> London

- Optical VPN requirements - 5 min - Hamid Ould-Brahim

draft-ouldbrahim-ovpn-requirements-00.txt

Just ID overview, why to be considered in PPVPN, future possible steps in OVPNs

- Discussion on PPVPN issues and future work topics - 30 min max - chairs(/ADs/TA)/all
 - Plan for requirements and framework progress
 - Choice of first set of solutions for standard track, plan for a second set
 - Solution-specific work
 - main deliverables per each solution, deliverable structure, protocol validation from other WGs, positioning against requirement and framework IDs
 - Applicability Statement
 - structure and number of deliverables, launch of solution/approach-specific AS work
 - L2 VPN space recap
 - New WG IDs (L2 VPNs, ...)
 - Inter-AS VPN (requirement document, deliverables)
 - Possible new work items (optical VPNs, tunnel topology, info model, ...)
 - Salt lake City (main objectives, intermediate work steps)

- Layer 3 VPNs using Encapsulation Services Protocol

draft-vasavada-ppvnp-es-l3vpn-00.txt- 5 min - Nishit Vasavada

Just ID overview, open issues, future steps, why should be considered, how to deal with

- VPN tunneling protocol

draft-elwin-ppvnp-vtp-00.txt - 5 min - Elwin Stelzer

Just ID overview, open issues, future steps, why should be considered, how to deal with

- Tunnel topology - 10 min - Tissa Senevirathne, Heinrich Hummel

Related IDs : draft-tsenevir-l2vpn-pmesh-00.txt, draft-hummel-ppvnp-tunnel-systems-01.txt

Just : which PPVPN problems addressed, open issues, future steps, how to deal with

Not allocated - just if time :

- BGP/MPLS VPN extension for IPv6 VPN over an IPv4 infrastructure

draft-ietf-ppvnp-bgp-ipv6-vpn-00.txt - Jeremy - changes, open issues, future steps

- BGP/GMPLS solution for inter-domain optical networking

- draft-xu-bgp-gmpls-01.txt - Yangguang - Just ID overview, why should be considered

PPVPN goals and milestones

– **DONE :**

- Formulate a plan and begin approaching SPs for input on scaling and other requirements
- Begin discussion of the framework and the service requirement documents (the two design teams continue to work)
- Identified a first set of candidate approaches
- Begin discussion (based on submitted IDs) on candidate approaches against the service requirements

– **NOT DONE :**

- Mar 01: Begin discussion of applicability statements : starting now
- Dec 01 : Submit framework, req IDs to IESG -> Info RFCs
- Mar 02 : Submit candidate approaches, applicability statements to IESG for publication
- Mar 02: Charter update or WG disband

WG documents

Requirements/Framework space

- draft-ietf-ppvpn-requirements-02.txt Service requirements for Provider Provisioned Virtual Private Networks
- draft-ietf-ppvpn-framework-01.txt A Framework for Provider Provisioned Virtual Private Networks
- draft-ietf-ppvpn-ce-based-00.txt A Framework for Provider Provisioned CE-based Virtual Private Networks using IPsec
- draft-ietf-ppvpn-l2vpn-00.txt An Architecture for L2VPNs

Candidate solutions space

BGP-based approach

- draft-ietf-ppvpn-rfc2547bis-00.txt BGP/MPLS VPNs
- draft-ietf-ppvpn-ipsec-2547-00.txt Use of PE-PE IPsec in RFC2547 VPNs
- draft-ietf-ppvpn-gre-ip-2547-00.txt Use of PE-PE GRE or IP in RFC2547 VPNs
- draft-ietf-ppvpn-bgp-ipv6-vpn-00.txt BGP/MPLS VPN extension for IPv6 VPN over an IPv4 infrastructure
- draft-ietf-ppvpn-mpls-vpn-mib-00.txt MPLS/BGP Virtual Private Network Management Information Base Using SMIv2

WG documents - cont.

Candidate solutions space - cont.

VR-based approach

- draft-ietf-ppvpn-vpn-vr-00.txt Network based IP VPN Architecture using Virtual Routers
- draft-ietf-ppvpn-bgpvpn-auto-00.txt Using BGP as an Auto-Discovery Mechanism for Network-based VPNs

- draft-ietf-ppvpn-rfc2917bis-00.txt A Core MPLS IP VPN Architecture
- draft-ietf-ppvpn-corevpn-disc-00.txt A Core MPLS IP VPN Link Broadcast And Virtual Router Discovery
- draft-ietf-ppvpn-hiervpn-corevpn-00.txt Hierarchical VPN over MPLS Transport

- draft-elwin-ppvpn-vr-mib-00.txt Virtual Router Management Information Base Using SMIv2

3 design teams up to now

Requirements

- 7 authors (SPs) of draft-ietf-ppvvpn-requirements-02.txt

Framework

- 8 authors of draft-ietf-ppvvpn-framework-01.txt

Recently, TLS (Transparent LAN Services) team (L2 VPNs in metro area)

- 7 main authors of a bunch of IDs in the area :

Giles Heron, Tissa Senevirathne, Hamid Ould-Brahim, Waldemar Augustyn, Vach Kompella, Marc Lasserre, Pascal Menezes

- Objectives:
 - 1 detailed requirements document for TLS
 - analyse solutions and possible convergences (and also positioning in respect with other L2 VPN solutions (point-to-point))
 - coordination with PWE3 (Ethernet PW design team) : Giles is in both teams, maybe another person from PWE3 will join (and viceversa)
- In parallel (not team) : provide input for framework basic document on L2 Metro VPNs (attention to schedule of Framework document for Info RFC (Dec 01))

Other teams are possible in the future

Candidate solutions (charter terminology)

AT THIS STAGE :

BGP-based approach

- rfc2547bis - related IDs solution

VR-based approach

- draft-ietf-ppvpn-vpn-vr-00.txt solution
- draft-ietf-ppvpn-rfc2917bis-00.txt solution

OTHER POSSIBLE CANDIDATE SOLUTIONS (NEXT STAGES):

CE-based IPsec

Port-based approach

- L2 VPN space (point-to-point, TLS)
- Optical VPN

others ... (?)

Charter :

- « A limited set of standard solutions »
- « Standard track gauged on SP support »

Other important pieces of work

- Inter-AS VPNs : need to progress (at first) the requirements
- Applicability Statements
- all what needed to facilitate interaction with protocol-specific WGs (PPVPN has no mandate to validate protocol enhancements)
 - ex. adequate structure of solution documents

Task sharing and cooperation with PWE3 has been launched (PWE3 chairs and involved ADs), some elements discussion still to be done

- encapsulation, signalling, tunnel setup/maintenance, PPVPN TLS team and PWE3 Eth-PW team

ITU-T progress on IP VPNs since Minneapolis

- The first level of approval (Consent) for the Recommendation Y.1311.1 « Network based IP VPN over MPLS architecture » has been obtained in ITU-T SG13 May meeting
- Y.1311 “Network based IP VPN Service - Generic framework and service requirements” : enhancements needed, plan for consent in next SG13 Jan 02 meeting
- Q11/SG13 Rapporteur’s meeting in Geneva on Nov 5th: main agenda items are progress of Y.1311 and per-VPN TE
- Q11/SG13 has been informed about progress in PPVPN, wish of maintaining synergy between the two efforts has been reaffirmed
- An ITU-T workshop on IP VPNs held in Geneva on April 26th

For further details : [//ppvpn.francetelecom.com](http://ppvpn.francetelecom.com) -> Related ITU-T work