

PPVPN WG

- Chair(s): Rick Wilder rwilder@masergy.com
Marco Carugi marco.carugi@francetelecom.com
- Sub-IP ADs : Scott Bradner, Bert Wijnen
- Mailing List
 - Discussion: ppvpn@ppvpn.francetelecom.com
 - (Un)Subscribe: sympa@ppvpn.francetelecom.com
 - (UN)SUBSCRIBE ppvpn in the body
- Mail Archive and informal PPVPN server
 - <http://ppvpn.francetelecom.com>
 - WG meeting minutes and presentations, ITU docs
 - **SLC agenda with clickable IDs**

Agenda

- 10 PPVPN work status - Marco
- 10 PPVPN Service requirements/Framework update - Dave, Ross
- 15 PPVPN CE-based IPsec VPN update - Jeremy
- 5 Applicability Statements Guidelines update - Jeremy
- 30 PPVPN Discovery schemes : DT report, Directory-based schemes, discussion - Matt, Juha
- 15 L3 VPNs : CE-to-CE authentication, MIBs - Ron, Tom
- 20 VPLS : requirements (DT report), architecture and bandwidth management - Waldemar
- 30 L2 VPN solution space (first DT considerations, discussion) - Vach
- 5 Extended L2TP for PPVPNs - Elwin
- 5 Tunnel topology - Heinrich
- 5 Recap - chairs

Detailed agenda

- **9H PPVPN work status** - 10 - Marco Carugi

Draft status and milestones, work items and Design Teams, expected progress for March 02

- **9H10 PPVPN Service requirements and Framework** - 10 -
Dave McDysan, Ross Callon

Update, open issues before last Call
draft-ietf-ppvpn-requirements-03.txt
draft-ietf-ppvpn-framework-02.txt

- **9H20 PPVPN CE-based IPsec VPN solution document** -
15 - Jeremy De Clercq, Cliff Wang

Update, open issues, future steps
draft-ietf-ppvpn-ce-based-01.txt
draft-wang-cevpn-routing-00.txt
draft-wang-cevpn-group-00.txt

- **9H35 Applicability Statements** - 5 - Jeremy De Clercq
Guidelines update, open issues, future steps
draft-sumimoto-ppvvpn-applicability-guidelines-01.txt
- **Discovery schemes for PPVPN**
 - **9H40 Report of "Discovery" Design Team** - 10 - Matt Squire
Main conclusions, issues
draft-squire-ppvvpn-vpn-discovery-reqts-00.txt
 - **9H50 Directory(DNS)/LDP-based VPNs** - 10 - Juha Heinanen
Just overview, open issues, future steps
draft-luciani-ppvvpn-vpn-discovery-01.txt
draft-heinanen-dirldap-uni-vc-vpns-01.txt
draft-heinanen-dirldap-eth-vpns-01.txt
 - **10H Open discussion on discovery and future PPVPN work**
- 10 - all

- **L3 VPN space**

- **10H10 CE-to-CE authentication for rfc2547 VPNs** 10 - Ron Bonica

Just ID overview, issues, future steps

draft-bonica-l3vpn-auth-01.txt

- **10H20 PPVPN MIBs** - 5 - Tom Nadeau

Update, issues, future steps

draft-ietf-ppvpn-mpls-vpn-mib-03.txt

draft-ietf-ppvpn-vr-mib-01.txt

- **L2 VPN requirements and architecture**

- **10H25 Report of the "VPLS Requirements" DT** - 15 - Waldemar Augustyn

Augustyn

Main conclusions, issues, future steps, which progress for the requirements ID

draft-augustyn-vpls-requirements-00.txt

- **10H40 VPLS architecture, VPLS bandwidth management** - 5 -

Waldemar Augustyn

Just issues, future steps, which progress for IDs

draf-augustyn-vpls-arch-00.txt

draft-augustyn-vpls-bw-00.txt

- **L2 VPN solution space (point-to-point, multipoint) :**

structure of this space, issues, "L2 VPN candidate solutions"

- **10H45 Report of first steps of "L2 VPN solutions" DT - 20**

- Vach Kompella

Classification of current proposals, commonalities and differences, convergences and issues, draft list of DT work items and objectives for March 02 meeting

draft-kompella-ppvvpn-l2vpn-01.txt

draft-shah-mpls-l2vpn-ext-00.txt

draft-shah-mpls-l2vpn-reduce-00.txt

draft-rosen-ppvvpn-l2-signaling-00.txt

draft-martini-l2circuit-trans-mpls-08.txt

draft-cai-ppvvpn-vc-rsvp-te-00.txt

draft-tsenevir-l2vpn-gre-00.txt

draft-lasserre-vkompella-ppvvpn-tls-00.txt

draft-kompella-ppvvpn-dtls-01.txt

draft-kompella-ppvvpn-vpls-00.txt

draft-ouldbrahim-l2vpn-lpe-01.txt

draft-knight-l2vpn-lpe-ad-00.txt

draft-heinanen-dirldp-uni-vc-vpns-01.txt

draft-heinanen-dirldp-eth-vpns-01.txt

draft-khandekar-ppvvpn-hvpls-mpls-00.txt

draft-menezes-inter-city-man-mpls-00.txt

11H05 Open discussion on work in L2 VPN solutions -10 - all

Structure of the work, issues, objectives in terms of "candidate solutions",
first work items

11H15 PPVPNs using extended L2TP - 5 - Elwin Stelzer

Just overview, open issues, future steps, how to deal with
draft-elwin-l2tpext-ppvnp-00.txt

11H20 Tunnel topology - 5 - Heinrich Hummel

Just PPVPN problems addressed, open issues, future steps, how to deal with the ID
draft-hummel-ppvnp-mp2p-tunnel-sequencing-00.txt

11H25 Recap of action points and conclusion - 5 - chairs

Administrativa

- Minute taker : Ananth Nagarajan
- Blue sheets : please circulate
- Speakers please :
 - just overview of IDs, focus on issues and future steps
 - later, send us your presentation (to be posted on the PPVPN informal server)
- ID-00 authors :
 - please continue to submit the related Sub-IP ID summary

PPVPN Charter

- **CHARTER GOALS**

- definition and specification of a limited number of sets of “standard” solutions for supporting PPVPNs

- **MAIN WG DELIVERABLES**

- **framework and service requirements documents**
- **several individual technical approach documents**
 - **grouping technologies to specify specific VPN service offers (protocol specifications included)**
 - **focus on scalability, manageability, security**
- **one Applicability Statement for each approach**
 - **environments where approach is suitable for deployment**
 - **analysis of scaling impact on SPs , threat analysis**

Goals and milestones

DONE :

- Formulate a plan, approach SPs for input on scaling, other reqts
- Begin discussion of framework and requirement documents
- Identified first set of candidate approaches
- Begin discussion on candidate approaches against requirements
- Begin discussion of Applicability Statements

NOT DONE :

- **Feb 02 : Submit framework and requirements to IESG -> Info RFCs**
- **Apr 02 : Submit L3 approaches & related Applicability Statements**
- **Aug 02 : Submit L2 approaches & related Applicability Statements**
- Dec 02: Charter update or WG disband

Candidate solutions

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

CURRENT CANDIDATE SOLUTIONS

•BGP-based approach

- draft-ietf-ppvpn-rfc2547bis-00.txt and related IDs (BGP/MPLS VPN)

•VR-based approach

- draft-ietf-ppvpn-vpn-vr-01.txt (BGP-VR)
- draft-ietf-ppvpn-rfc2917bis-00.txt solution (Mcast-VR)

OTHER POSSIBLE ONES

•CE-based IPsec VPNs

•Port-based approach

- L2 VPNs (point-to-point, VPLS/TLS)

• ...

Current WG documents

Requirements/Framework space

- [draft-ietf-ppvpn-requirements-03.txt](#) Service requirements for Provider Provisioned Virtual Private Networks
- [draft-ietf-ppvpn-framework-02.txt](#) A Framework for Provider Provisioned Virtual Private Networks
- [draft-ietf-ppvpn-ce-based-01.txt](#) A Framework for Provider Provisioned CE-based Virtual Private Networks using IPsec
- [draft-ietf-ppvpn-l2vpn-00.txt](#) An Architecture for L2VPNs

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-01.txt](#) BGP/MPLS VPN extension for IPv6 VPN over an IPv4 infrastructure
- [draft-ietf-ppvpn-mpls-vpn-mib-03.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-01.txt](#) Network based IP VPN Architecture using Virtual Routers
- [draft-ietf-ppvpn-bgpvpn-auto-01.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-ietf-ppvpn-vr-mib-01.txt](#) Virtual Router Management Information Base Using SMIv2

Design teams (1)

PPVPN Service requirements

- draft-ietf-ppvpn-requirements-03.txt

PPVPN Framework

- draft-ietf-ppvpn-framework-02.txt

Requirements for VPLS

- draft-augustyn-vpls-requirements-00.txt

Requirements for PPVPN discovery schemes

- draft-squire-ppvpn-vpn-discovery-reqts-00.txt

Design teams (2)

L2 VPN solutions (team formed very recently)

CONTEXT : point-to-point and VPLS

SHORT-TERM OBJECTIVES :

- structure the space and classify solution proposals
- identify commonalities and differences, discuss convergences and issues
- define a proposal of work items to be worked before March 02

MARCH 02 OBJECTIVES :

- make a first proposal of L2 VPN candidate solutions

NO documents produced up to now

L3 VPN Applicability Statements (team started this week)

CONTEXT : BGP-based, VR-based, CE-based IPsec

MARCH 02 OBJECTIVES :

- finalise the AS GUIDELINES ID (L2 section, L2 versus L3 tradeoffs)
- first version of the L3 VPN AS ID (single document)

ID Expected Progress

- **Requirements and Framework ID :**
 - **WG Last Call** **mid-1/02**
 - **Submit to IESG for Info RFCs** **2/02**

- **AS Guidelines :**
 - **WG doc** **1-2/02**
 - **WG Last Call** **3/02**

- **Layer 3 VPN solutions :**
 - **WG Last Call** **(end)3-5/02**

- **AS for Layer 3 VPNs :**
 - **WG doc** **3/02**
 - **WG Last Call** **5/02**

ID Expected Progress - cont.

- **VPLS Requirements :**

- **WG doc** end 12/01-1/02
- **WG Last Call** 3/02

- **Layer 2 VPN architecture :**

- **WG doc** Structure, deliverables to be discussed on list
- **WG Last Call** 4/02 ?

- **Layer 2 VPN solutions :**

- **WG doc** TBD (4-5/02)
- **WG Last Call** 8/02 ->

- **AS for Layer 2 VPNs :** in parallel with L2 VPN solutions

Other work

- **Comments on BGP/MPLS and VR MIBs IDs**
- **Comments and further discussion on :**
 - **Magic cookie ID**
 - **Extended L2TP ID**
 - **Directory/DNS based approach**
- **Input solicited on CE-based IPSec solution**