PPVPN WG

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- Mailing List
  - Discussion: **ppvpn@nortelnetworks.com**
  - To Subscribe: lyris@nortelnetworks.com
    In Body: (UN)SUBSCRIBE ppvpn in message body

- Mail Archive and informal PPVPN server
  - **http://standards.nortelnetworks.com/ppvpn/**
    - WG meeting minutes and presentations, ITU docs
    - **Atlanta agenda with clickable IDs**

Administrativia

- Minute taker :   Ananth Nagarajan

- All : please circulate the blue sheets

- Speakers please :
  - sign the paper on chairs' table (slides' authors)
  - just overview of IDs, focus on issues and future steps
  - send me your presentation (proceedings, PPVPN informal server)

Milestones

DONE :

- Formulate a plan, approach SPs for input on scaling, other reqts
- Begin discussion of framework, requirements
- First set of candidate approaches, begin discussion against requirements
- Begin discussion of Applicability Statements (AS)
- Submit the layer 3 requirement and the layer 3 framework documents to the IESG for consideration as Informational RFCs.

NOT DONE :

- DEC 02   Begin submission of the candidate L3 approaches and related applicability statements to IESG publication
- JAN 03   Submit the layer 2 requirement and the layer 2 framework documents to the IESG for consideration as Informational RFCs
- APR 03   Begin submission of the candidate L2 approaches and related applicability statements to IESG for publication
- NOV 03 Charter update or WG disband

WG documents status

Under IESG review for Info RFC

(back to IESG after first round of IESG comments and reqts/framework team work)

draft-ietf-ppvpn-requirements-05.txt
- comments expected next week

draft-ietf-ppvpn-framework-06.txt
- 2nd round of IESG comments : some of them will require a final review

Updated from authors

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

draft-ietf-ppvpn-bgp-ipv6-vpn-03.txt

draft-ietf-ppvpn-l3vpn-auth-01.txt

draft-ietf-ppvpn-rfc2547bis-03.txt

draft-ietf-ppvpn-ipsec-2547-02.txt

draft-ietf-ppvpn-vpls-requirements-01.txt (but will be replaced)

draft-ietf-ppvpn-mpls-vpn-mib-05.txt

draft-ietf-ppvpn-vr-mib-03

draft-ietf-ppvpn-tc-mib-02

WG documents status (2)

Awaiting updates from authors

- draft-ietf-ppvpn-vpn-vr-03.txt
- draft-ietf-ppvpn-ce-based-02.txt (to solution document)
- draft-declercq-ppvpn-ce-based-as-01 (WG status conditional to ce-based ID)
- draft-rosen-ppvpn-ospf2547-area0-01.txt (recent input from OSPF chairs),
- draft-rosen-vpns-ospf-bgp-mpls-05.txt vs new ospf proposal (later today)
- draft-ietf-ppvpn-gre-ip-2547-01(not on PPVPN page)
     - linked to draft-rosen-mpls-in-ip-or-gre-00.txt (just new MPLS WG doc)
- draft-guichard-pe-ce-addr-00.txt
- draft-ietf-ppvpn-l2vpn-framework-01.txt
- draft-andersson-ppvpn-metrics-01.txt (authors and SPs)
- draft-ietf-ppvpn-applicability-guidelines-00.txt

WG documents status (3)

Under WG discussion to be moved into the WG (now)

draft-nagarajan-ppvpn-generic-reqts-01.txt -> see later

draft-ppvpn-l2vpn-requirements-01.txt (to replace draft-ietf-ppvpn-vpls-requirements-01.txt) -> see later

draft-luciani-ppvpn-vpn-discovery-03.txt

- agreement on list discussion : remove some solution-specific considerations

Other IDs to be moved into the WG (soon after this meeting)

draft-andersson-ppvpn-terminology-02.txt (although everything is not yet done)

draft-andersson-ppvpn-metrics-01.txt (or next version)

WG discussion on draft-ietf-ppvpn-cl-tunneling-vpn-00.txt

- Last Call unsuccessful : still issues , no agreement on BCP RFC
- currently the ID is under reconsideration for Info FC

WG documents status (4)

WG Last Call some time after Atlanta (end 2002 ?)

`- WG ID  from draft-nagarajan-ppvpn-generic-reqts-01.txt`
`(Info RFC)`

`- Conditional to IESG approval of L3 Reqts and framework`
`draft-ietf-ppvpn-rfc2547bis (to PS)`
`draft-ietf-ppvpn-vpn-vr  (to PS)`

- **Some refinements are possible (based on TA feedback)**

- **Protocol dependencies with other WGs to be solved**
  draft-rosen-ppvpn-2547bis-protocol-01.txt
  draft-knight-ppvpn-vr-protocol-00.txt

- **Parallel submission of related Applicability Statements**
  draft-ietf-ppvpn-as2547-00.txt
  draft-ietf-ppvpn-as-vr-01.txt

WG documents status (5)

WG Last Call will follow in reasonable timing for :

- other 2547-based solution documents
    - 2547bis with IPSec, IPV6, CE-CE auth. …
- VR extensions (inter-AS, …)

- L3 solution-specific MIBs
    draft-ietf-ppvpn-mpls-vpn-mib-05.txt
    draft-ietf-ppvpn-vr-mib-03
    draft-ietf-ppvpn-tc-mib-02

CE-based IPSec VPN solution
- • under progress (no update from Yokohama)
- • AS to be progressed in parallel
- • MIB(s) needed
- • would like to progresss quickly

Design teams

PPVPN Service requirements team tasks

- **Enhancement of Requirements : DONE**
  - Generic Requirements document (umbrella L3/L2 reqts)
  - improvement of L3-specific and L2-specific requirements
    - see later today

- **Enhancement of current metrics draft : TO BE DONE**
  - service user view in criteria for candidate L2 solution choice
    - commitment to update it soon

- **Enhancement of Applicability Guidelines : TO BE DONE**
  - L2 section and global review

Some issues

IEEE 802.1-PPVPN cooperation/interaction:

- **To figure out in which terms it will actually happen**
  - **no current « official » liaison, probably needed (Scott)**
- **received some input two days ago, Norm will expand**
- **no further decision now (crossed participation is a fact)**
- **First domain of application (now) : L2 framework**

Ensure that interaction with WGs owning the protocols is constantly running well

- **SUB-IP Area still alive or not**

L2 Interworking: like-to-like OK, any-to-any is out of scope (as guideline)

- **Specific cases to be analysed (ex. ARP mediation)**

L2 VPN OAM : L2VPN ping/traceroute should be developed

- **nothing else should be worked**

Some general work to be progressed

Quality of service for PPVPNs (no draft-00 update)

PPVPN Management (no draft-00 update)

PPVPN Security framework : will be started after this meeting
- **call for interested people**

Multicast (framework ID to WG document ?, work on solutions)
- **input from SP is wished**

ITU-T progress on L1/OVPNs

- Q11/13 meeting – October 2002, Geneva

  Started new draft Recommendation Y.l1vpnsdr (« L1 VPN Requirements and Architecture »)

  - Service definitions, scenarios, requirements and basic architecture

  – Target for consent is next July 2003 SG13 meeting

  – Liaisons sent to SG15, OIF , IETF PPVPN for comments

  – **Contributions are invited to next Rapporteur's meeting**

    - Sophia Antipolis (near Nice, France) on March 31-April 4 2003
    - Focus on service architectures (see additional document in liaison)
    - IETF guys invited as individual contributors
    - Will probably produce official input to IETF to work on specific items

  Liaison and documents distributed to the list and available on

  – **PPVPN informal Web site (soon)**

  – **ITU-T site (SG13-IETF exchange area, need to subscribe)**

Status of the work in the L2 space and next work steps (slides presented at the end of the L2 section of the meeting)

L2 design team/list : work proposal in Yokohama

Objectives for September 10th : ALMOST DONE
- **improve the L2 framework and agree on terminology**
- **restructure identified solutions based functional decomposition**
    - **common structure of the solution documents**
        - way to identify missing pieces, discuss tradeoffs and functional choices
    - **submit all vertical solution documents in this new shape**
- (complete the classification of the L2 various proposals)

September 10th to Atlanta deadline : NOT DONE
- consider the input from requirements team (reqts, metrics)
- review and improve the vertical solutions (possible convergences, issues)
- **produce list of candidate vertical solutions**
- progress each related AS in parallel

Next work steps on L2

TA/AD input in Atlanta :
-Functional decomposition
STRONGLY RECOMMENDED

- No protocol development in PPVPN (from charter)
- **only functional reqts are mandatory, then need of interaction with specific WGs** (validating any needed extension)

- Limited set of solutions (from charter)

- **AD: no wish to progress all « theoretically possible » combinations**
- **Team goal : come up soon with a « pragmatic » set of vertical combinations (SP and Vendor support to play in)**

The approach for next steps in the L2 space (supported by Scott)

Main functional blocks identified by the L2 DT

Discovery

• OPTIONS for discovery : BGP, DNS, (LDP) , …

Signaling

• OPTIONS for signaling : LDP, BGP, L2TPv3, (RSVP-TE), …

PW tunneling (encaps)

• OPTIONS for tunneling : MPLS, L2TPV3, GRE, …
 and data plane forwarding

Informational model

• UNDER STUDY (SINGLE OPTION is wished)

To constitute the core sections of each solution document
        - template under review (deployment scenarios etc.)

Structure of functional block docs

Section « Requirements »

- what needs to be achieved by this VPN function
  - ex. what is needed for VPN signaling

Section(s) « Specification of the OPTION(s) »

- (may) include protocol proposals to satisfy the reqts
  - to validate by related WGs (MPLS, PWE3, L2TP, DNS, …)

Section « Interactions with other functions »

  - considerations on possible combinations (different options for the other functions)

Two possible options for this set of deliverables :
A) N documents per each functional block, one per OPTION
B) One doc per each functional block (with N specification sections, one per OPTION)
Several (mono-OPTION) functional docs are basically there !

L2 solution documents

\- **Aligned with the agreed functional decomposition and associated template**

\- Section justifying choice of specific combination(s) of functional options

\- All options which may be used for the same function have to be documented

Different solutions using same option for a specific function MUST relay on same functional document

Aggressive work plan for L2 DT

L2 DT meeting in January 2003 (date (1-2 days), location : TBD)
- **Tasks to be completed for the meeting**
    - **enhancements to L2 Framework**
        - **service model (see L2 DT report), align with functional decomposition**
    - **functional documents-00**
    - **completed restructure of each L2 solution under consideration**
    - **progress solution convergence discussion** (metrics could help too)
- **At the meeting**
    - **finalisation of the set of candidate solutions (target)**
- **After the meeting**
    - **proposal of the candidate solution set to the WG**
    - **list discussion**
    - **promotion to WG docs of the supported solutions**

Another DT meeting before next IETF ?

- **DT will not replace decisions by the whole WG**

- **All products of the DT will be submitted to the whole WG**

- **Report of the DT interim meeting will be available for the WG**