

Generic Requirements for PPVPN

draft-nagarajan-ppvpn-generic-reqts-01.txt

Ananth Nagarajan

Sprint

(Editor)

Purpose

- To provide an umbrella set of requirements for PPVPN, independent of L2/L3 or specific solutions
 - Per IESG request after Yokohama meeting
- Specific and detailed L2 and L3 requirements will be addressed by separate documents
- Objective: Informational RFC

Acknowledgements

- A lot of “generic” text was adopted from Layer 3 requirements document
- Also influenced by work in the L2 requirements space
- Authors are a subset of the requirements design team

Requirements classification

1. Service requirements - Service attributes that the customer can observe or measure.
 - E.g., Does the service forward frames or route datagrams? What security guarantees does the service provide?
 - Availability and stability are key requirements in this category.
2. Provider requirements - Characteristics that Service Providers use to determine the cost-effectiveness of a PPVPN service.
 - E.g., Scaling and management.
3. Engineering requirements - Implementation characteristics that make service and provider requirements achievable.
 - 3a. Forwarding plane requirements - e.g., requirements related to router forwarding behavior.
 - 3b. Control plane requirements - e.g., requirements related to reachability and distribution of reachability information.
 - 3c. Requirements related to the commonality of PPVPN mechanisms with each other and with generic Internet mechanisms.

Input solicited

- Specific input solicited on Scalability section
 - Scaling factors and numbers used in Section 5.1.1 and 5.1.2 need further discussion
- Input on other sections will also be appreciated

Terminology draft

- Loa Andersson (draft-andersson-ppvnpn-terminology-02.txt)

Revision history and plan of action

- 00 version published in September '02 received comments from TA. These were addressed in the 01 version
- Further comments received from design team will be combined with comments received on mailing list
- Request acceptance as WG item
 - Addresses a charter item and was suggested by IESG
- Once accepted, will be advanced to IESG for consideration as Informational RFC by end of 2002