Layer 3 solution-specific Applicability Statements

L3 PPVPN Applicability Statements Design Team

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Three solution-specific AS drafts

- ## 2547bis-style:
  - draft-rosen-ppvpn-as2547-00.txt
- ## VR-based:
  - draft-nagarajan-ppvpn-vrbased-applicability-00.txt
- ## CE-based IPSec:
  - draft-declercq-ppvpn-ce-based-as-00.txt

Purpose

- To determine how key requirements based on requirements draft, as identified by AS guidelines draft, are satisfied by the various PPVPN solutions.

- May eventually serve as a "checklist" for SPs (and customers) to drive choice of appropriate PPVPN solution to satisfy requirements.

General outline of AS drafts

- Based on AS guidelines draft

  – General applicability (all PPVPN types)

  – Requirements specific to L3 PPVPNs

  – Requirements specific to type of L3 PPVPNs (PE-based and CE-based)

- May need to change this outline to improve readability, and minimize redundancy of sections

- 2547bis AS not completely aligned to this outline

  – but covers requirements

Key applicability issues identified

- **Scalability**
- **Security**
- Isolated exchange of routing and data info
- Overlapping customer address space and private addressing
- QoS and SLAs
- Tunneling
- Core network requirements and awareness
- Management
- Migration impacts
- Auto Discovery
- Simultaneous Internet Access

2547-style AS status

- To be completed
  - Management sections

- To be enhanced
  - QoS and SLAs

- Almost done
  - Isolated exchange of routing and data info
  - Overlapping customer address space and private addressing
  - Scalability
  - Security
  - Tunneling
  - Core network requirements and awareness
  - Auto Discovery
  - Simultaneous Internet Access

VR-based AS status

- To be completed -
  - Management sections
  - Simultaneous Internet access

- To be enhanced
  - Security
  - QoS and SLAs
  - Migration impacts
  - Scalability

- Almost done
  - Tunneling
  - Core network requirements and awareness
  - Auto Discovery
  - Isolated exchange of routing and data info
  - Overlapping customer address space and private addressing

CE-based AS status

- Based on draft-ietf-ppvpn-ce-based-01.txt and some individual submissions

- Identifies different (business) scenarios, depending on
  - whether the network provider = the service provider or not
  - how much of the CE device is provisioned by the SP

- To be completed:
  - cost of misconfiguration
  - management section

- To be enhanced :
  - migration scenarios
  - security section
  - QoS and SLA
  - Internet access from a VPN
  - Scalability

Documents in the CE-based/IPsec space

- draft-ietf-ppvpn-ce-based-01.txt

- draft-touch-ipsec-vpn-03.txt
- draft-knight-ppvpn-ipsec-dynroute-00.txt
- draft-wang-cevpn-routing-00.txt
- draft-kethan-sp-greipsec-00.txt

- draft-wang-cevpn-group-00.txt
- draft-lee-ppvpn-ce-auto-config-00.txt

Next steps

- Alignment/improvement of outlines
- Completion/addition of sections (especially management)
- Consistent interpretation of requirements across drafts
- Proposal
  - Work is clearly within the scope of the charter
  - Request to accept these drafts as WG documents