



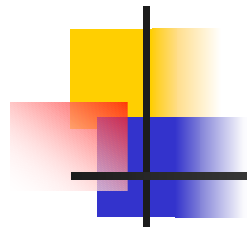
PPVPN QoS

- Framework for QoS in Provider-Provisioned VPNs
 - [draft-chiussi-ppvpn-qos-framework-00.txt](#)
- QoS Considerations for L3 PPVPNs
 - [draft-declercq-ppvpn-l3vpn-qos-00.txt](#)



Framework for QoS in Provider- Provisioned VPNs

draft-chiussi-ppvpn-qos-framework-00.txt



Framework for QoS in PPVPNs

Status

- Renewed interest in this work
- New version .01 reflects comments and discussions from .00 version
- Changes from .00 version
 - Removed non-PPVPN specific material (more has to be cleaned up)
 - Improved reference models, hard and soft guarantees
 - Added material on QoS *within* the VPN
 - Expanded sections on QoS-related signaling
 - Clarified/reorganized/rewritten several sections from feedback received
- Content still needs to be further refocused, reorganized, and expanded where necessary
- We have additional co-authors



Framework for QoS in PPVPNs (cont.'d)

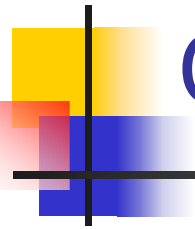
Moving forward - Work plan

- Make the draft more readable (shorter)
- Reduce non-PPVPN specific material
 - Drastically shorten background information and restoration section
 - Reference to other WGs/other documents for non-PPVPN material
- Merge with draft-declercq-ppvpn-l3vpn-qos-00.txt
 - Make draft more balanced between Layer 2/Layer 3 (right now Layer 2 issues are more prominently addressed)
 - Keep the best of both drafts, better organization of QoS issues
 - Clearly identify PPVPN-specific issues, identify Layer-2-only/Layer-3-only/common issues



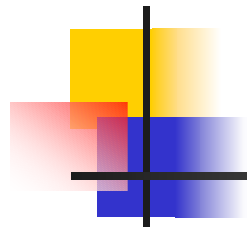
Framework for QoS in PPVPNs (cont.'d)

- Next version, will concentrate/add material on the following:
 - Define PPVPN QoS reference models
 - Clarify QoS properties/performance/implications of reference models
 - Define PPVPN SLAs
 - PPVPN-specific QoS issues
 - Organize PPVPN QoS issues in a crisper form (along the lines of draft-declercq-ppvpn-l3vpn-qos-00.txt) to facilitate readability and feedback
 - Expand issues related to automatic QoS provisioning
 - Remove excessively-narrow references to specific solutions
 - PPVPN-specific restoration issues
 - Inter-AS QoS issues
 - Others??? Please comment



QoS considerations for L3 PPVPNs

draft-declercq-ppvpn-l3vpn-qos-00.txt



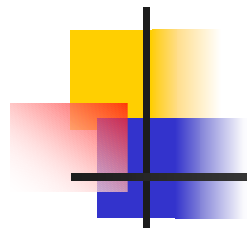
Motivation

- Existing PPVPN QoS framework document
 - L2VPN focused
 - L3VPN issues unclear
- Separate document to ease feedback on specific L3VPN QoS issues
- Draft organization specifically organized to
 - highlight which issues are PPPVN-specific and which are orthogonal
 - maximize readability



Content: Identified Issues

- default use of LDP-DU and LSP-merge
- default use of 1 LSP per PE pair for each direction
- mapping of packets into SP's traffic class
- use of Penultimate Hop Popping
- use of BGP signalling
- PPVPNs over non-MPLS networks
- provisioning example



PPVPN QoS: Next Steps

- Solicit comments on the two existing drafts
 - For now, please comment on the separate drafts
 - Solicit feedback on which areas are of most interest
 - Solicit input on eventual additional issues that are missing
- Merge the drafts, keeping the best of each
 - Systematic/pragmatic approach to QoS
 - Completeness/Readability
 - **Solicit comments: should we have single framework or separate Layer 2/Layer 3 frameworks?**
 - We prefer single framework because a lot of issues are in common
- **Goal:** QoS Framework as the reference document for other QoS drafts defining solutions/QoS signaling extensions/QoS MIBs/etc.