
Update from San Diego meeting on IP VPN work in ITU-T SG13

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Work on IP VPNs in ITU-T Study Group 13

– Study Group 13

- « Multi-protocol and IP-based networks and their internetworking »

– Question 11 of SG13 - (end) 2000/(end) 2003 study period

- « Mechanisms to allow IP-based services using MPLS to operate in public networks »
- It's the successor of Question 20 which initialized the work on IP VPNs in the previous study period
- two Draft versions of Recommendations on IP VPNs have been produced up to now
 - Y.1311 “Network based IP VPN Service - Generic framework and service requirements”
 - Y.1311.1 “Network based IP VPN over MPLS Architecture”
 - more advanced status than the previous one
 - up to now it also includes requirements (plan to move them into the more generic Y.1311 in a later version)

Most recent steps of this activity

- Official SG13 meeting (Geneva, Nov 00)
 - requirement enhancements to Y.1311.1
 - new structure of Y.1311 document
 - discussion on service model (service/transport decomposition)
- Q11Rapporteur's meeting (Boston, Feb 01) : focus on Y.1311.1
 - general editorial revision, addition of references, standard ITU template
 - refinement of requirements' section (QoS & SLSs, security, interworking)
 - some minor additions on technical approaches' section (introductory text on inter-AS(SP) VPN, ...)
 - consensus of participants on launching the process for **consent call at the end of next official SG13 meeting (May 01)**
 - Y.1311.1 updated version has been sent as “white contribution” for May
 - comments on Q11 mailing list and some (agreed) contributions for May are expected to finalize the Draft Recommendation
 - Y.1311.1 will live, further version(s) expected after first consent

Some details on Y.1311.1

“Network based IP VPN over MPLS Architecture”

- **It currently does not cover all spectrum included in IETF PPVPN**
 - **IP VPNs just over MPLS**
 - **no CPE-based approaches**
 - **no Network-based Layer 2 VPN approaches**

- **Scope**
- **Abbreviations and references**
- **Service definitions and reference model**
- **Service requirements (no distinction among generic, Customer and SP ones)**
- **Framework architecture**
 - learning customer-site reachability information
 - distributing reachability information
 - constrained distribution of routing info
 - LSP tunnel establishment and usage
- **Technical approaches for NBVPN**
 - **2 identified** (based on deployment):
 - **BGP/MPLS (2547)**
 - **Virtual Router**
- **QoS approaches**
 - Point-to-Cloud SLS, Point-to-Point SLS, Cos Transparency
- **Inter-AS (SP) VPN (to be developed)**
- **Interworking between different solutions (to be developed)**
- **Service Interworking with other VPN architectures (to be developed)**

ITU-T Q11/13 - IETF PPVPN synergy

- The synergy is clearly stated in :
 - **the PPVPN WG charter**
 - **the Y.1311.1 (Y.1311) introductory text**
- According to that :
 - the PPVPN WG context was presented by myself during the Boston Feb 01 Q11 meeting
 - **most of the service requirements** produced inside ITU (with implication of several SPs) have been used as **input for draft-ietf-ppvpn-requirements-00.txt**
- To continue this mutual exchange and cooperation effort
 - Plan to submit, as information for all Q11/13 people, the last versions of framework and requirements IDs and this PPVPN WG meeting's minutes as Temporary Documents for the SG13 May meeting
 - obviously mentioning that it's an ON-GOING work inside IETF

Last versions of Y.1311 and Y.1311.1 Draft
Recommendations available on the informal PPVPN
server :

<http://nbvpn.francetelecom.com/ituRelated.html>