

VPLS Service Configuration

Essentials: Spoke-SDP, Mesh-SDP, VPLS forwarding rules
SAP encapsulations and treatment of Q-tags

Agenda

- Pop quiz: fundamental components of Services, and VPWS
- Term Test #2: **Wed March 14 @ 4pm, room T302**
 - covers all lecture & lab material up to and including Wed Mar 7
 - skip Module 5 slides 93-140 (details of Bandwidth constraints)
- Complete last handful of slides in SA Module 1: (ending on slide 85)
- Cover SA Module 3 – VPLS, sections 1-2 (slides 1-34)
- Start Module 2 – SAPs

Assignments and Lab work

- Re-read: MPLS modules; SA Module 1
- Read NRS-II book: Chapter 19 on VPLS by Mon Mar 12
- Lab 7 post-lab: due by 11:59pm Thu/Sat for Fri/Mon lab sections.
- Lab #8: SA Lab 2: basic Epipe / VPWS service
- Coming next in Lab: SA Lab 3: VPLS

Treatment of Q-tags on SAPs (looking ahead to Lab #9)

In Lab 9, we will build a VPLS along side existing ePipe services. Remember what "P" in VPN stands for: private or separate traffic, so there's no chance of interference IFF we define the SAPs correctly.

In SA Module 1, we saw the three possible SAP encapsulation "modes":

- **null encapsulation**
- dot1q encapsulation (a single q-tag)
- qinq encapsulation (two q-tags)

In SA Module 2, we learn about the equivalent of a "native VLAN" (for Dot1Q encapsulation) and how to specify it in the SAP definition. There are two options:

- default SAP: e.g. 1/1/1:*
- **null SAP** e.g. 1/1/1:0

Please distinguish the "**null encapsulation**" from "**null SAP**"; they're very different things!

For Lab 9 – VPLS (next week), make sure you've read and understood SA Module 3, slides 8-11.