

# Can core switches limit the speed of VLANs



## Overview

Best practice is to create VLANs on the core switch (if it's Layer 3 capable) so inter-VLAN traffic is handled at line speed, and only internet/WAN traffic goes through the Peplink. VLAN10 should have no restrictions at all. I was thinking I could set something up on the our router's outside interface but I've never worked. A core switch in networking serves as the high-capacity backbone, centralizing data flow and ensuring efficient communication between different network segments. Simply put, it's the kingpin that keeps your network humming.

## Can core switches limit the speed of VLANs



VLANs use network switches to segment a single physical network into smaller, more manageable parts. Once you've set up VLANs, devices within the same VLAN can communicate ...



Use Layer 3 links between the distribution and core switches to allow for fast convergence and load balancing. Build Layer 3 triangles, not squares as shown in Figure 3-7.



Step-by-step instructions for configuring VLANs using network hardware. Learn how to segment your network, improve security, and manage traffic with clear, practical examples.



This is going to depend on what your firewall can handle. I would keep all of the gateways on the switches so the firewall doesn't have to handle ARP, NDP, or learn MAC addresses.



Unlike access switches, which connect directly to end-user devices, the core switch focuses on aggregating and routing traffic between other switches, minimizing latency and ...



This way, bridging and VLANs limit the amount of traffic flowing across the entire LAN by reducing the possible number of collisions and packet retransmissions within VLANs and on the LAN ...



Once ip routing is enabled and SVIs are up, the switch builds a routing table with connected routes for each VLAN subnet. That's what enables traffic to move between VLANs at wire ...



Best practice is to create VLANs on the core switch (if it's Layer 3 capable) so inter-VLAN traffic is handled at line speed, and only internet/WAN traffic goes through the Peplink.



Each VLAN is on it's own sub interface. What I want to do is to limit the available Internet bandwidth (say 15MB) for VLAN80 but not restrict the local LAN bandwidth between VLAN80 and ...



VLAN 1006 to VLAN 4094 (Extended VLAN Range):  
Designed for large-scale networks requiring a high number of VLANs. VLANs in this range are stored in the running configuration and typically require ...

## Contact Us

For more information, pricing, or custom energy solutions, please contact us:

Website: <https://www.gdroofing.co.za>

Email: [sales@gdroofing.co.za](mailto:sales@gdroofing.co.za)

Phone: +27 72 418 9365

Address: 22 Electron Avenue, Isando, Johannesburg, 1600, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

