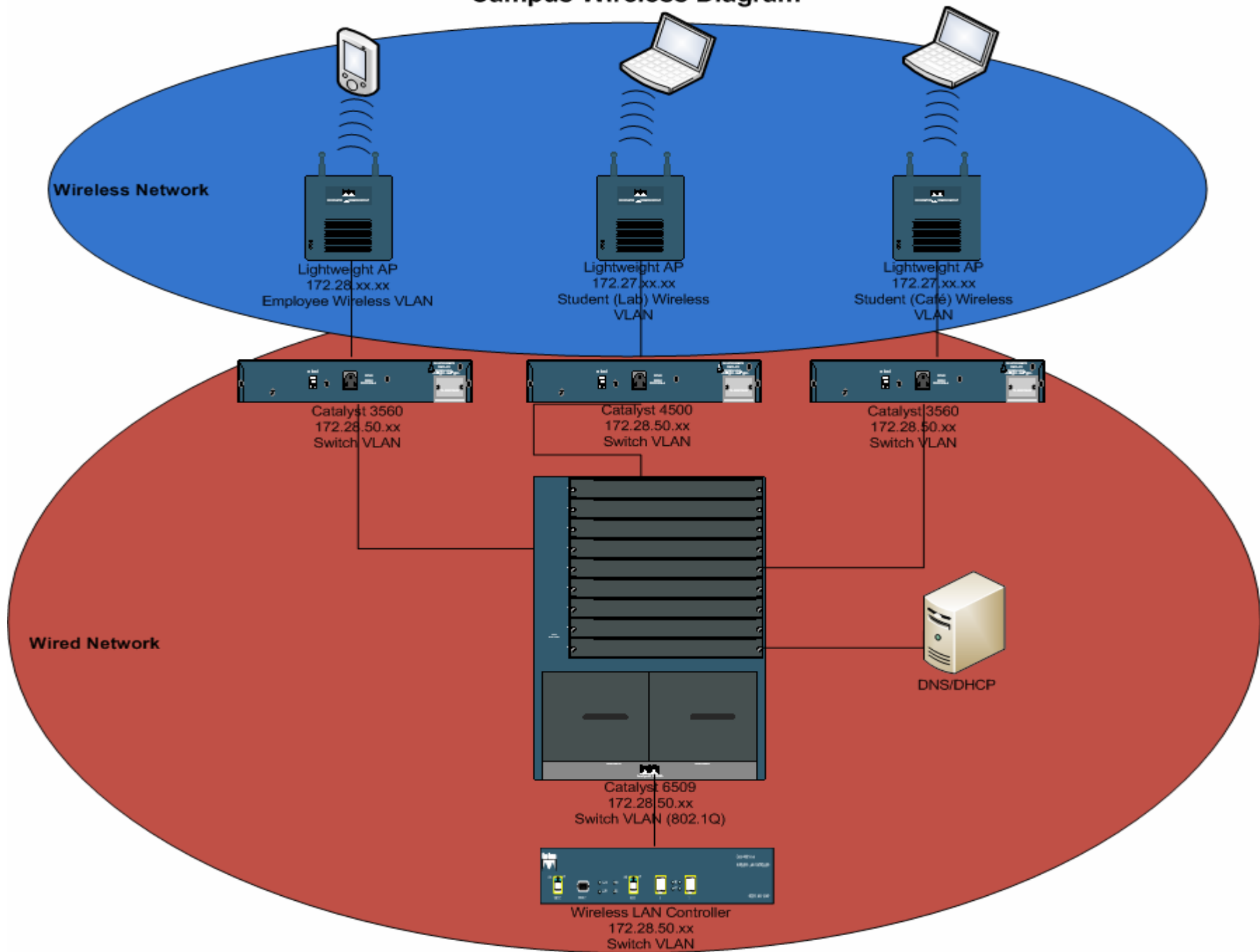


CLPCCD Wireless Architecture

Campus Wireless Diagram



Architecture

- Connect wireless controller to the core network on the switch VLAN (172.28.50.xx)
- Configure wireless controller to support layer 2 and layer 3
- Lightweight Access Point Protocol (LWAPP) is used to connect, control, and manage lightweight access points
- Establish three wireless VLANs and map VLANs to three SSIDs: student lab, student café, and employee
- Segregate each wireless VLAN with unique security policies

Architecture

- Support 802.11a/b/g and scalable to 802.11n
- Student café wireless would provide open access to students; i.e., cafeteria
 - Enable web portal with usage disclaimer
- Student lab wireless would have security policies enabled such as WPA2 or static WEP
- Employee wireless would be the most secure
 - Enable 802.1x authentication to a back-end AAA radius server
- Utilize internal DNS/DHCP services