

**Internal Services (BLUE) VLAN 200**

**IP: 10.1.60.32/28**

**Gateway: 10.1.60.46**

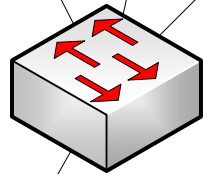
Active Directory & DNS  
IP: 10.1.60.33



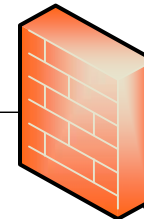
Windows Admin  
IP: 10.1.60.34



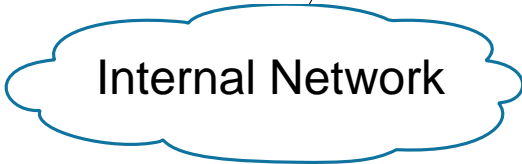
Yum Repo  
IP: 10.1.60.35



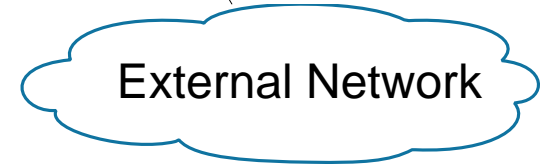
Internal Switch



cdx-asa-usma  
Port Channel 1 (G0/0, G0/1)  
Port Channel 1.200  
IPv4: 10.1.60.46



Internal Network



External Network

# Monitoring/Logging VLAN (MONITOR) VLAN 250

IP: 10.1.60.48/28

Gateway: 10.1.60.62

Host Monitoring/Graylog  
IP: 10.1.60.50

Graylog Laptop 2  
IP: 10.1.60.52

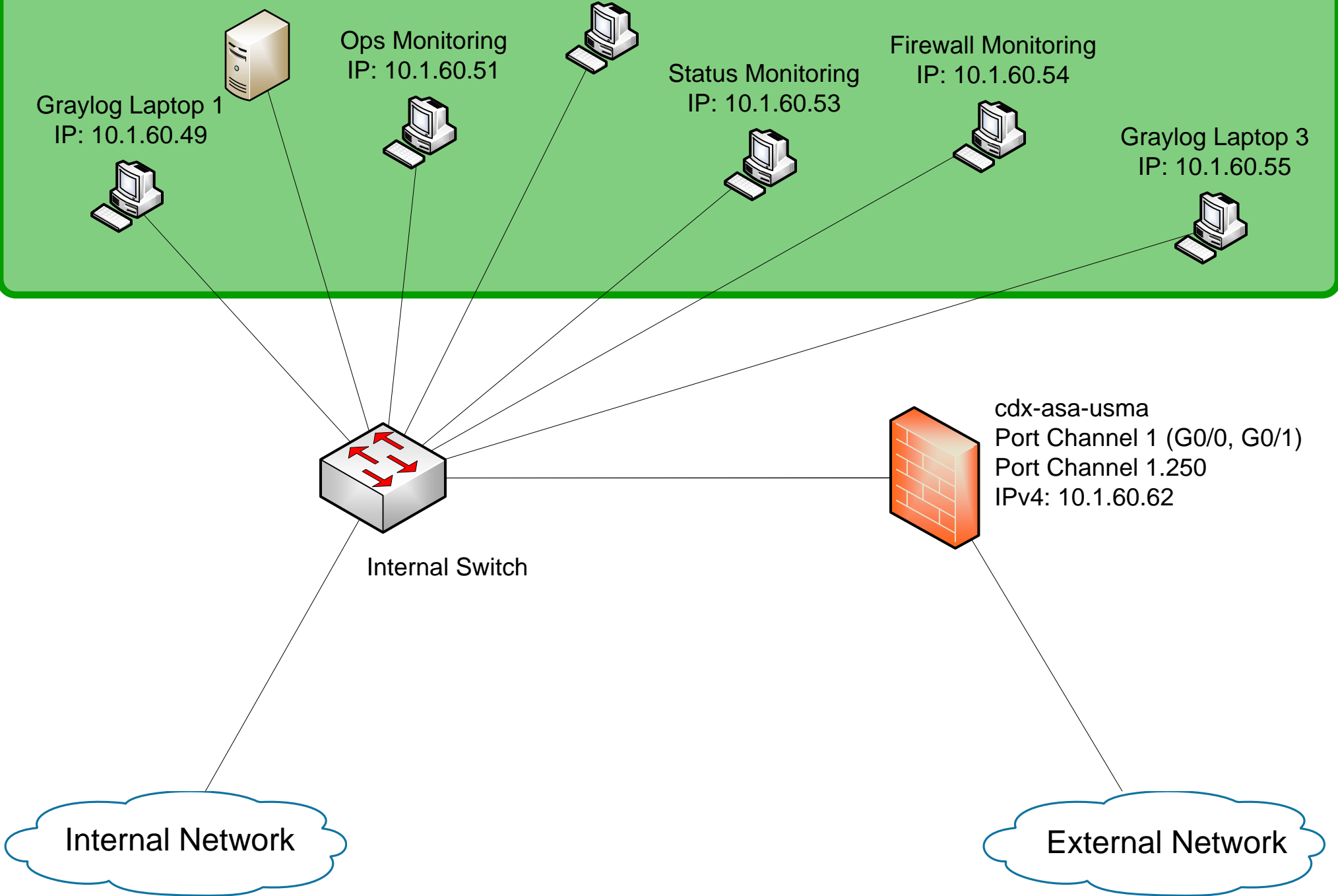
Ops Monitoring  
IP: 10.1.60.51

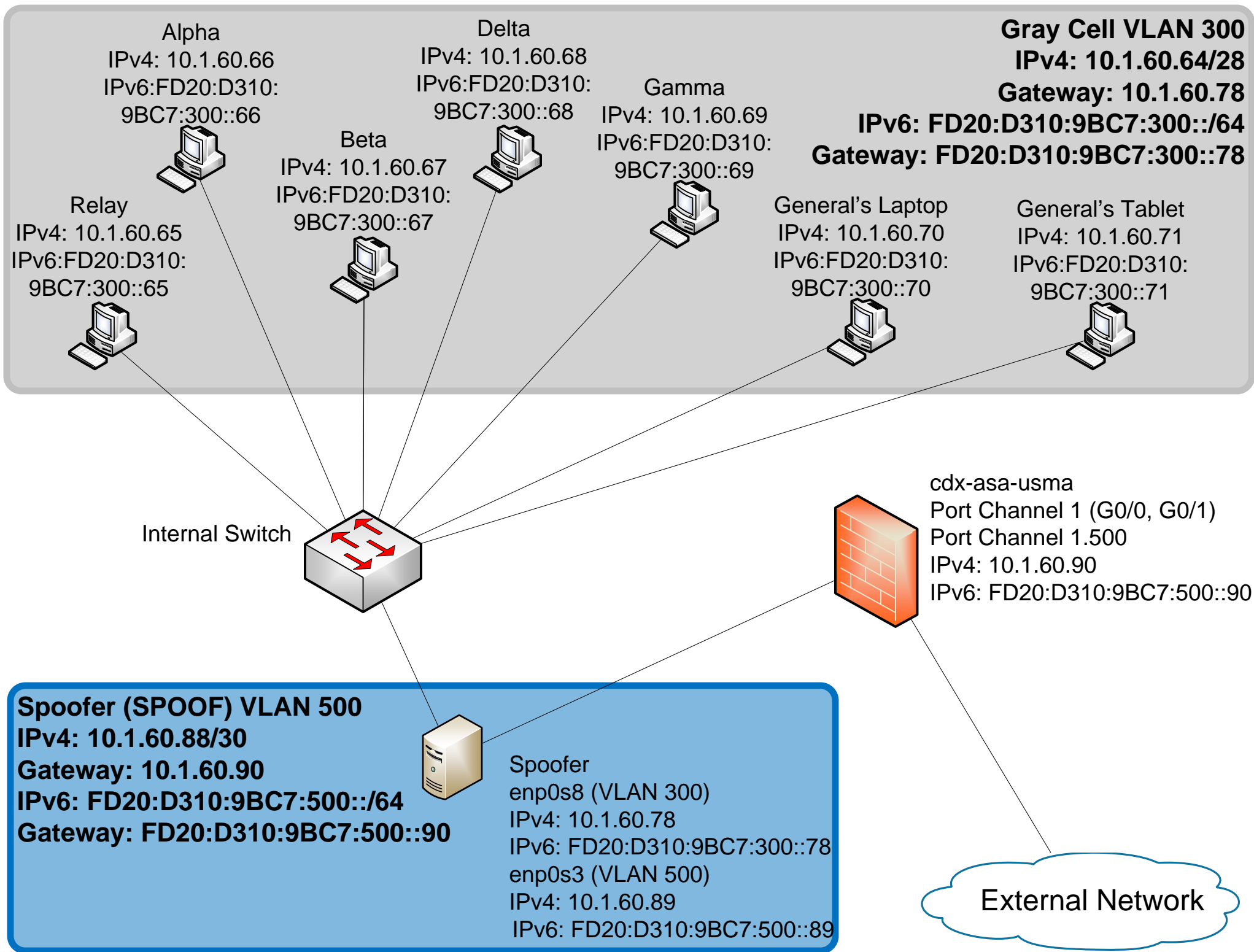
Status Monitoring  
IP: 10.1.60.53

Firewall Monitoring  
IP: 10.1.60.54

Graylog Laptop 3  
IP: 10.1.60.55

Graylog Laptop 1  
IP: 10.1.60.49

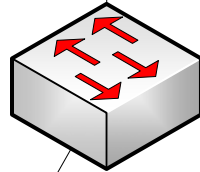




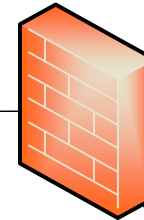
Proxy Server  
IPv4: 10.1.60.81  
IPv6: FD20:D310:9BC7:400::81



**Proxy (PROXY) VLAN 400**  
**IPv4: 10.1.60.80/29**  
**Gateway: 10.1.60.86**  
**IPv6: FD20:D310:9BC7:400::/64**  
**Gateway: FD20:D310:9BC7:400::86**



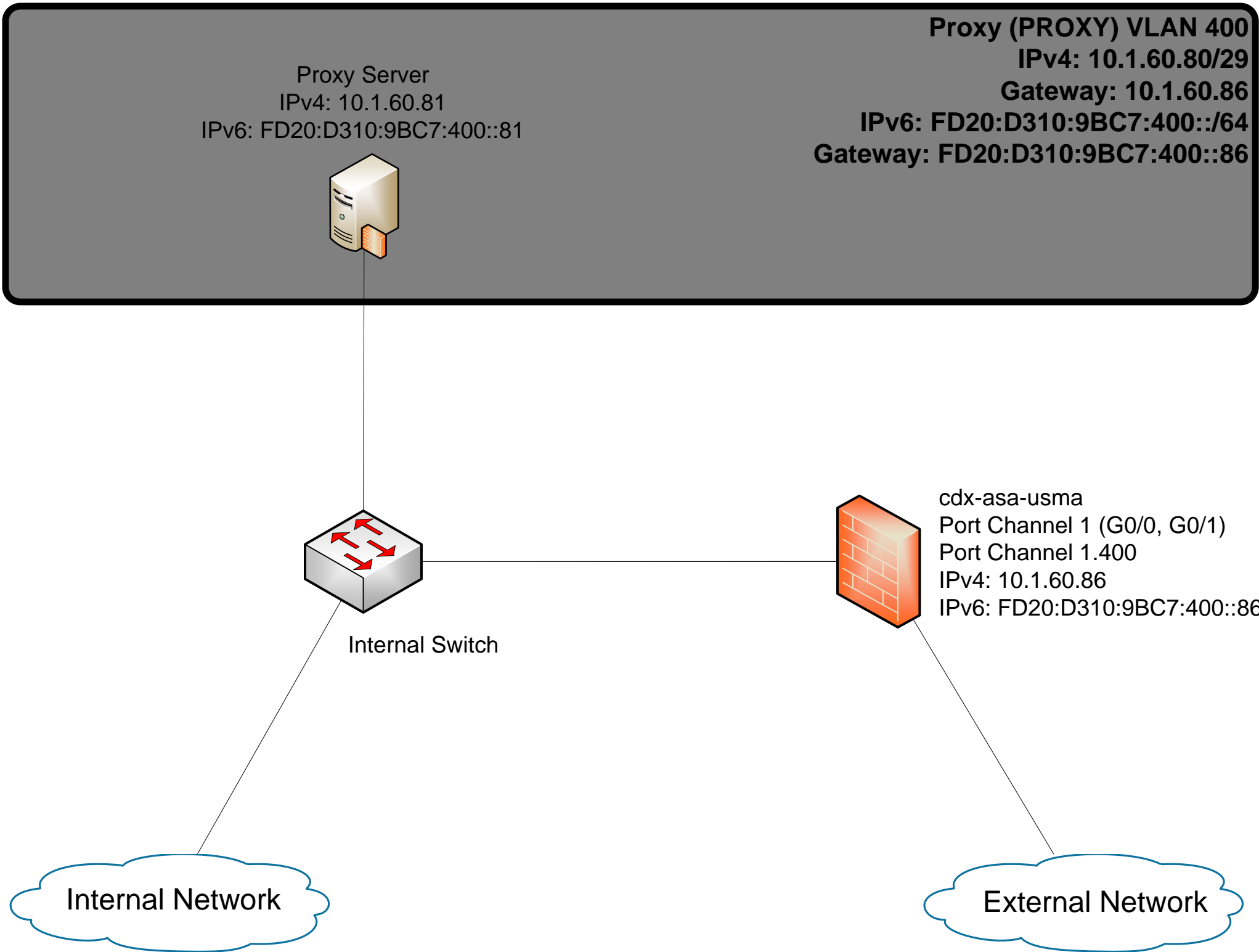
Internal Switch



cdx-asa-usma  
Port Channel 1 (G0/0, G0/1)  
Port Channel 1.400  
IPv4: 10.1.60.86  
IPv6: FD20:D310:9BC7:400::86

Internal Network

External Network



**Gray Cell Web App (GRAYWEB) VLAN 600**

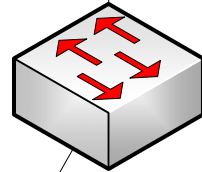
**IPv4: 10.1.60.92/30**

**Gateway: 10.1.60.94**

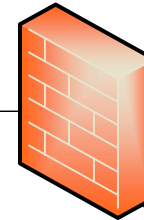
**IPv6: FD20:D310:9BC7:600::/64**

**Gateway: FD20:D310:9BC7:600::94**

Web App  
IPv4: 10.1.60.93  
IPv6: FD20:D310:9BC7:600::93



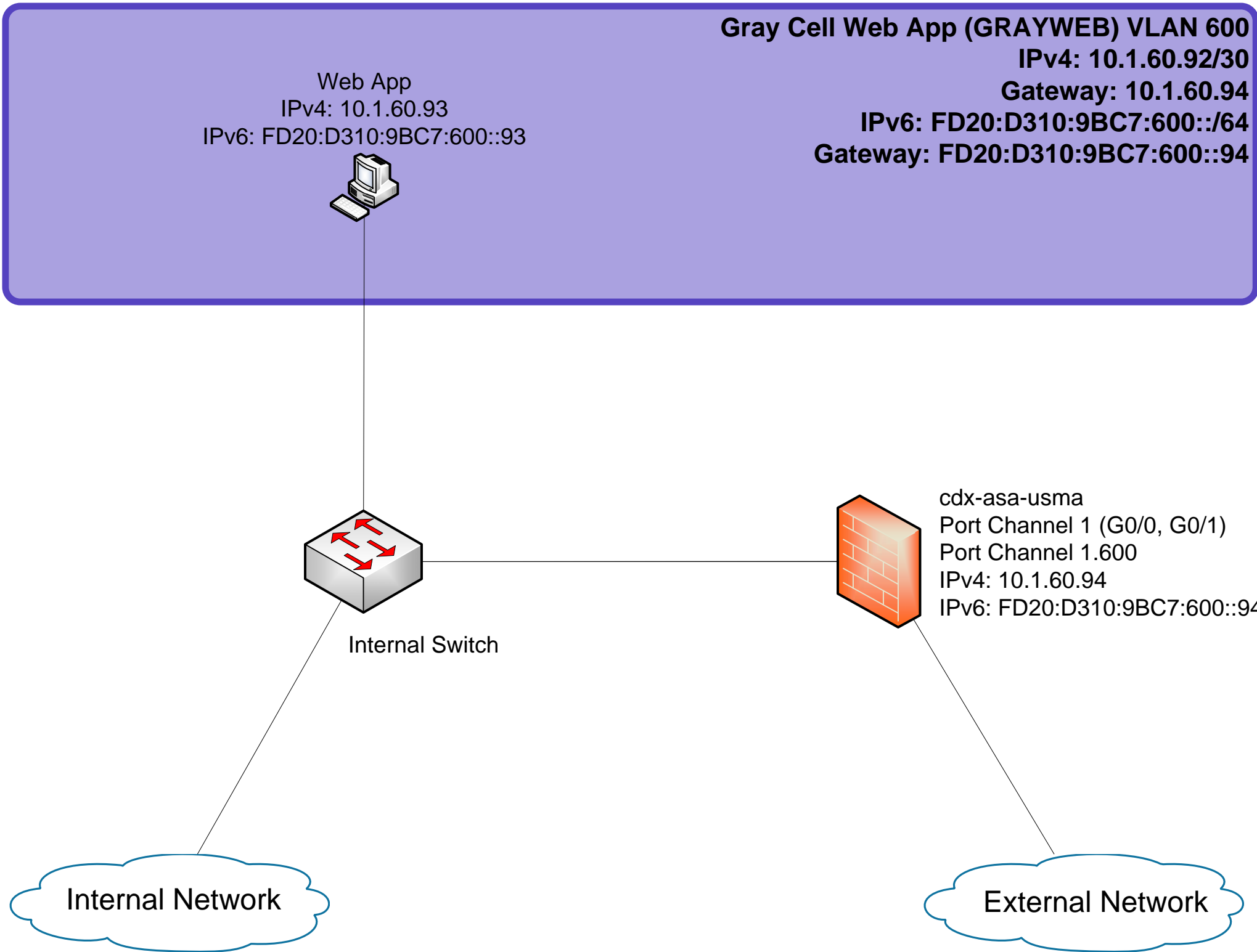
Internal Switch



cdx-asa-usma  
Port Channel 1 (G0/0, G0/1)  
Port Channel 1.600  
IPv4: 10.1.60.94  
IPv6: FD20:D310:9BC7:600::94

Internal Network

External Network



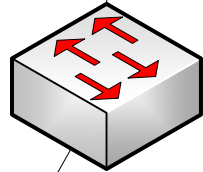
**Window Logger (WINLOG) VLAN 700**

**IPv4: 10.1.60.96/30**

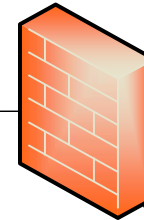
**Gateway: 10.1.60.98**

Windows Event Logger

IPv4: 10.1.60.97



Internal Switch



cdx-asa-usma

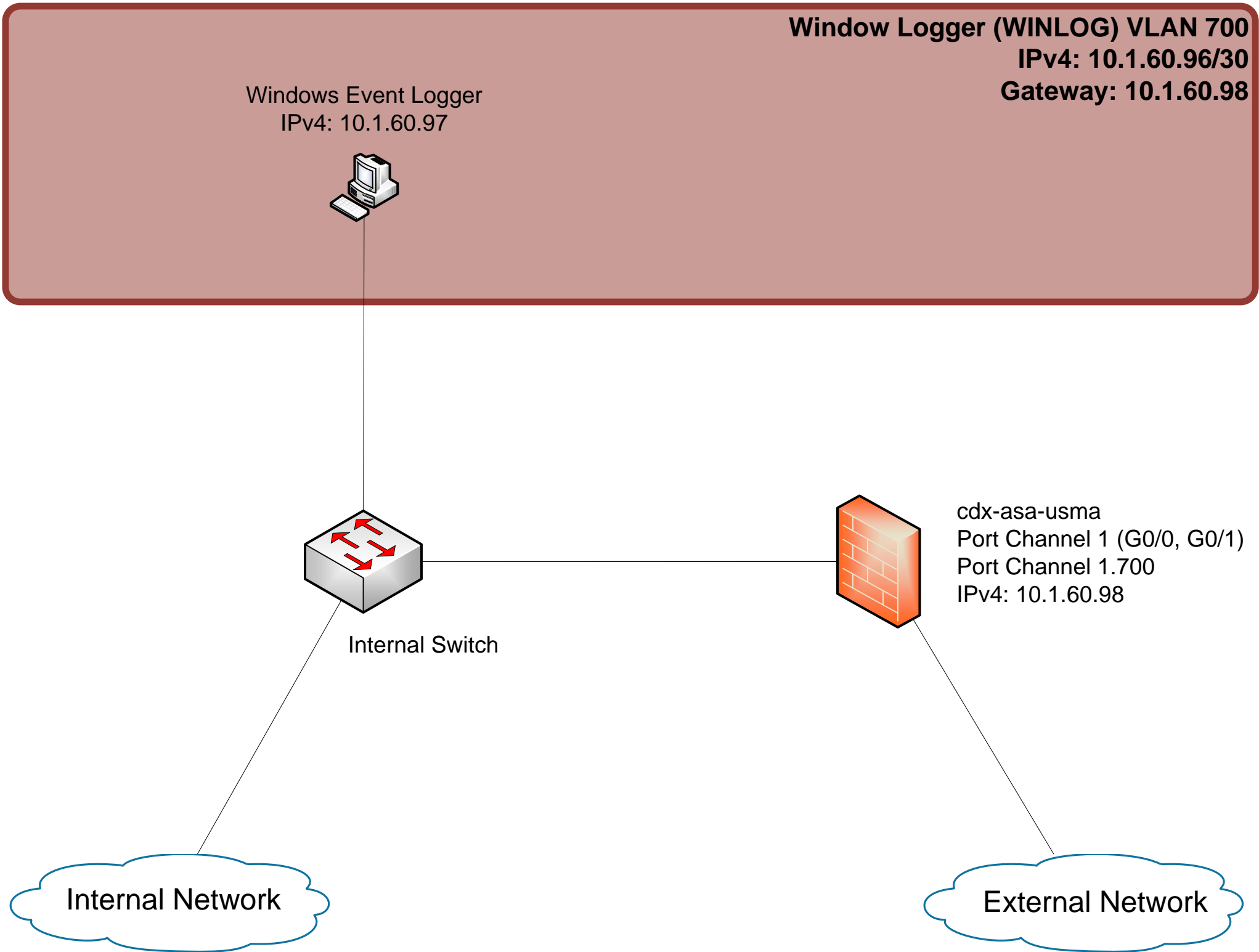
Port Channel 1 (G0/0, G0/1)

Port Channel 1.700

IPv4: 10.1.60.98

Internal Network

External Network

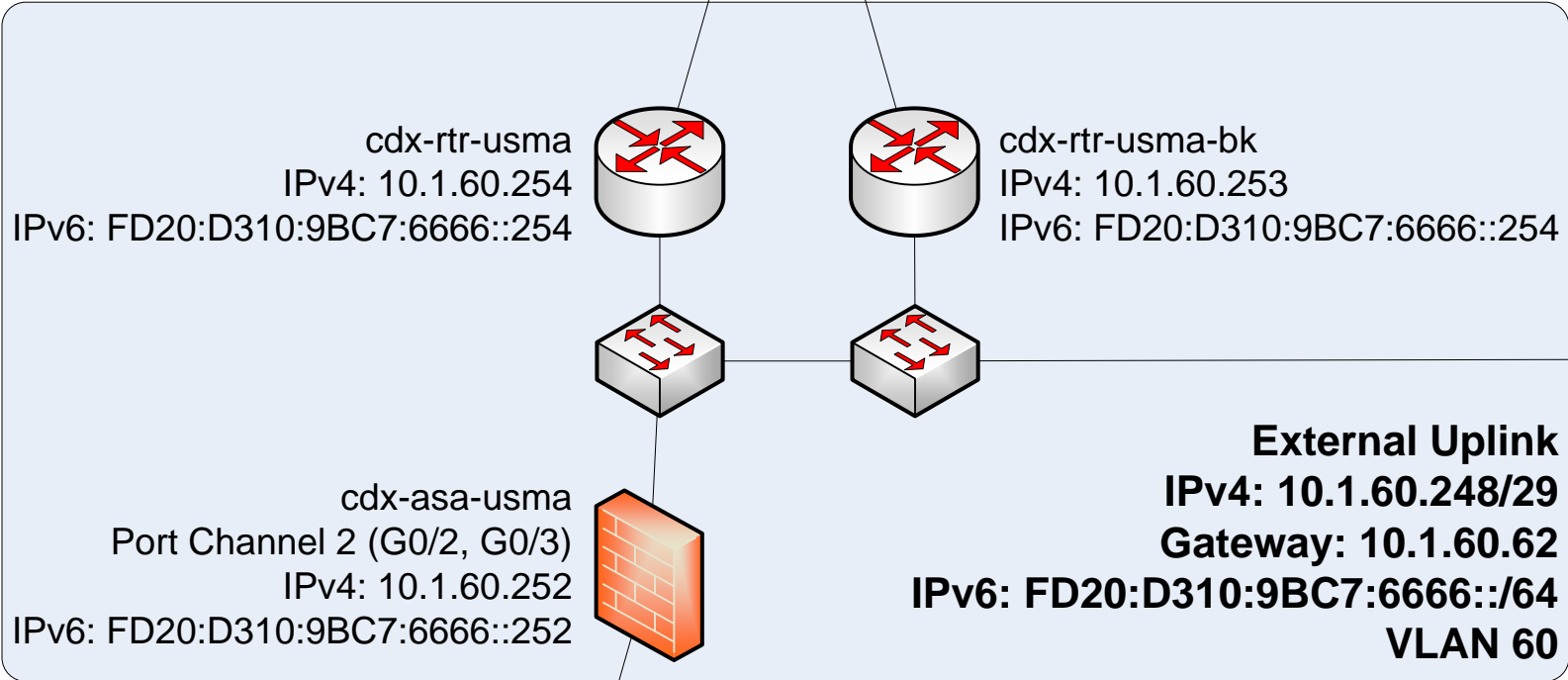




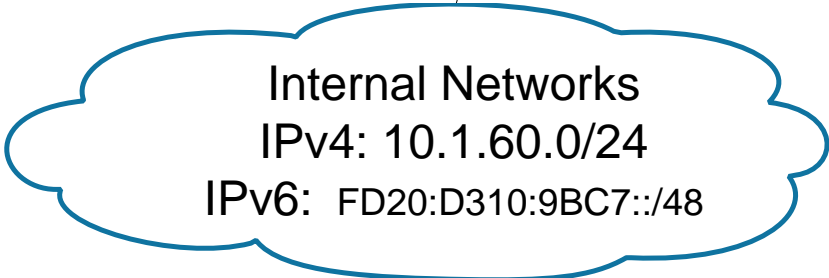


DS3  
10.1.200.6 (Tunnel)  
10.200.200.202 (Physical)

DREN  
10.1.200.11 (Tunnel)  
134.240.15.125 (Physical)



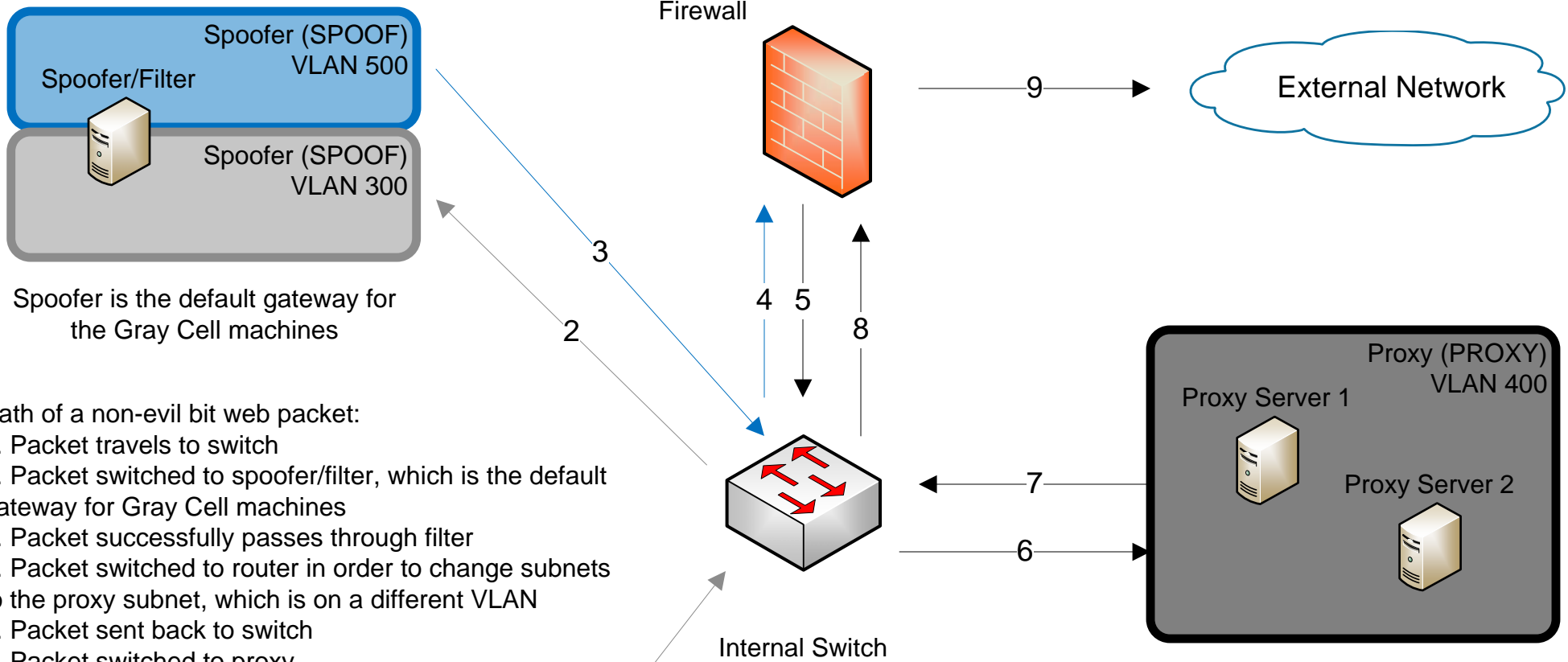
**External Uplink**  
**IPv4: 10.1.60.248/29**  
**Gateway: 10.1.60.62**  
**IPv6: FD20:D310:9BC7:6666::/64**  
**VLAN 60**



**Internal Networks**  
**IPv4: 10.1.60.0/24**  
**IPv6: FD20:D310:9BC7::/48**

White Cell  
IPv4: 10.1.60.251  
IPv6: FD20:D310:9BC7:6666::251  
Patch Panel 29

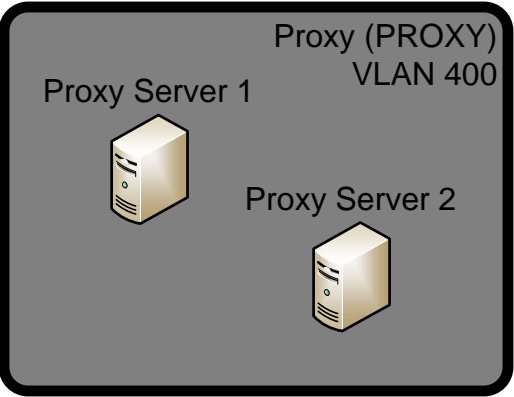




Spoofers is the default gateway for the Gray Cell machines

Path of a non-evil bit web packet:

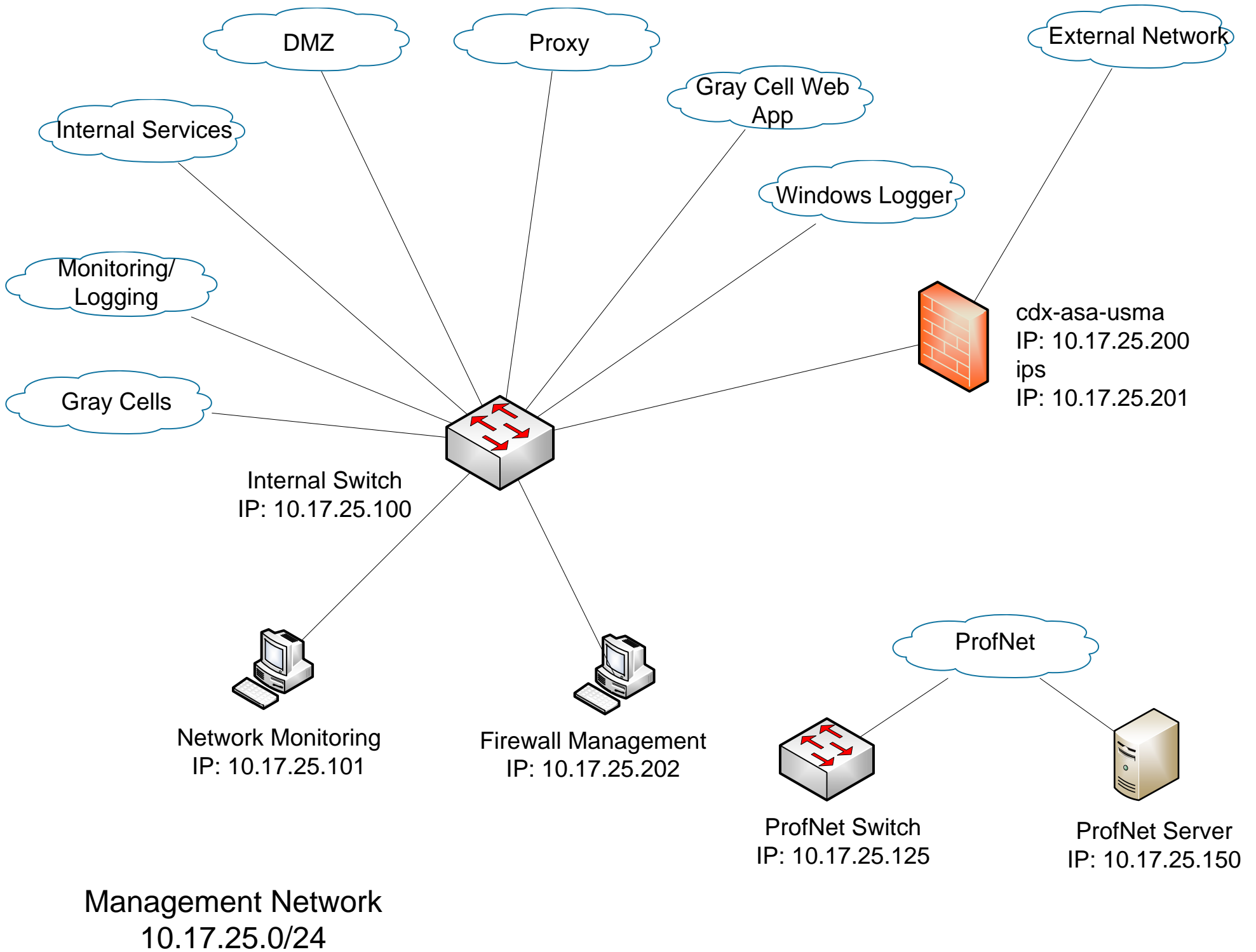
1. Packet travels to switch
2. Packet switched to spoofer/filter, which is the default gateway for Gray Cell machines
3. Packet successfully passes through filter
4. Packet switched to router in order to change subnets to the proxy subnet, which is on a different VLAN
5. Packet sent back to switch
6. Packet switched to proxy
7. Packet travels back from proxy, which grants internet access to Gray Cell machines
8. Packet travels to router
9. Packet travels to external network



Gray Cell machines have browsers configured to only access internet through proxy servers

If a packet does not have the evil bit set and is not a web packet, it will not complete step 5 and be routed to the proxy. The packet will travel back to the switch, then be switched to the appropriate destination in the internal network.

If a packet has the evil bit set, it does not get forwarded by the spoofer to the router. The spoofer will return traffic over the Gray Cell VLAN, acting as if it were the final destination.



Int. Services/BLUE VLAN 200  
g0/13: Active Directory/Internal DNS/Windows Admin  
g0/14: Yum Repo

Web App VLAN 600  
g0/35: Gray Cell Web App  
g0/36: Unallocated

Services/DMZ VLAN 100  
g0/5: Email Server  
g0/6: Web Server/Backup/Forum  
g0/7: FTP Server  
g0/8: DNS Server 1&2  
g0/9: Unallocated  
g0/10: Unallocated  
g0/11: Unallocated  
g0/12: Unallocated

Gray Cells VLAN 300  
g0/25: Relay  
g0/26: Alpha  
g0/27: Beta  
g0/28: Delta  
g0/29: Gamma  
g0/30: General's Laptop  
g0/31: General's Tablet  
g0/32: Unallocated  
g0/33: End User Unix  
g0/34: Unallocated

Proxy VLAN 400  
g0/37: Proxy Server  
g0/38: Unallocated  
g0/39: Unallocated  
g0/40: Unallocated

Spoofers VLAN 300/500  
g0/41: Spoofer Downlink (300)  
g0/42: Spoofer Uplink (500)  
g0/43: IWAR 3 Monitor  
g0/44: Unallocated

Monitoring VLAN 250  
g0/15: IWAR 9 Monitor  
g0/16: Graylog Laptop 3 (23)  
g0/17: Network Monitoring 1  
g0/18: Host Monitoring/graylog  
g0/19: Ops Monitoring  
g0/20: Status Monitoring  
g0/21: IWAR 9 Monitor 2  
g0/22: IWAR 6 Monitor  
g0/23: Graylog Laptop 1 (21)  
g0/24: Graylog Laptop 2 (22)

Windows Log VLAN 700  
g0/45: Windows Event Logger  
g0/46: Unallocated

Packet Captures  
g0/1: Official Packet Capture  
g0/2: Gray Cell Packet Capture  
g0/3: Unallocated  
g0/4: Unallocated

Etherchannel  
g0/47: Etherchannel 1  
g0/48: Etherchannel 2

