Access Layer	Distribution Layer	Core Layer	Other Network Layer(s)

Enterprise Network

Distribution Switches

Demilitarize Zone

100Mbps, 2ms

Client

Client

PCAP

10Gbps

PCAP

10Gbps

PCAP

PCAP

Client

Client

1Gbps, 2ms

PCAP

10Gbps, 2ms

PCAP

Core Router

10Gbps, 2ms

PCAP

Residential Private Network

PCAP

PCAP

Client 100Mbps, 20ms

PCAP PCAP

Client

DMZ Servers

Subnet Key Details

10.1.0.0/30 - Core Router ↔ Distribution Switch 1, 10.1.0.4/30 - Core Router ↔ Distribution Switch 2, 10.1.0.8/30 - Core Router ↔ VPN Server, 10.1.1.0/24 - Enterprise Network, 10.1.2.0/24 - Access Switch ↔ Distribution Switch 1, 10.1.3.0/24 - Wi-Fi AP ↔ Distribution Switch 1, 10.2.1.0/24 - Wi-Fi Network, 10.3.1.0/24 - DMZ Servers ↔ Distribution Switch 2, 10.1.0.x/30 - VPN Server ↔ Remote Clients (per link)