

IP Addressing Table

Base Network: 172.16.1.0

Department	Network Address	Subnet Mask	Host Address Range	Broadcast Address
SALES	172.16.1.0	255.255.255.128 (/25)	172.16.1.1 – 172.16.1.126	172.16.1.127
POS	172.16.1.128	255.255.255.128 (/25)	172.16.1.129 – 172.16.1.254	172.16.1.255
STOCK	172.16.2.0	255.255.255.128 (/25)	172.16.2.1 – 172.16.2.126	172.16.2.127
STAFF	172.16.2.128	255.255.255.128 (/25)	172.16.2.129 – 172.16.2.254	172.16.2.255
TECH	172.16.3.0	255.255.255.128 (/25)	172.16.3.1 – 172.16.3.126	172.16.3.127
SERVERROOM	172.16.3.128	255.255.255.240 (/28)	172.16.3.129 – 172.16.3.142	172.16.3.143

Between the Routers and Layer-3 Switches

No.	Network Address	Subnet Mask	Host Address Range	Broadcast Address
R1-MLSW1	172.16.3.144	255.255.255.252 (/30)	172.16.3.145 – 172.16.3.146	172.16.3.147
R1-MLSW2	172.16.3.148	255.255.255.252 (/30)	172.16.3.149 – 172.16.3.150	172.16.3.151
R2-MLSW1	172.16.3.152	255.255.255.252 (/30)	172.16.3.153 – 172.16.3.154	172.16.3.155
R2-MLSW2	172.16.3.156	255.255.255.252 (/30)	172.16.3.157 – 172.16.3.158	172.16.3.159

Between the Routers and ISPs

Public IP Address Ranges:

195.136.17.0/30

195.136.17.4/30

195.136.17.8/30

195.136.17.12/30

Remote Access VPN Networks

Segment	Network Address	Subnet Mask	Host Address Range	Broadcast Address
VPN Main Office LAN	192.168.2.0	255.255.255.0 (/24)	192.168.2.1 – 192.168.2.254	192.168.2.255
VPN Branch Office LAN	192.168.1.0	255.255.255.0 (/24)	192.168.1.1 – 192.168.1.254	192.168.1.255
WAN Link (Main–Internet)	209.165.200.228	255.255.255.252 (/30)	209.165.200.229 – 209.165.200.230	209.165.200.231