

# IP ADDRESSING

**Base Network:172.16.1.0**

## FIRST FLOOR

DEPARTMENT	NETWORK ADDRESS	SUBNET MASK	HOST ADDRESS RANGE	BROADCAST ADDRESS
SALES AND MARKETING	172.16.1.0	255.255.255.128/25	172.16.1.1 to 172.16.1.126	172.16.1.127
HR AND LOGISTICS	172.16.1.128	255.255.255.128/25	172.16.1.129 to 172.16.1.254	172.16.1.255

## SECOND FLOOR

DEPARTMENT	NETWORK ADDRESS	SUBNET MASK	HOST ADDRESS RANGE	BROADCAST ADDRESS
FINANCE AND ACCOUNTS	172.16.2.0	255.255.255.128/25	172.16.2.1 to 172.16.2.126	172.16.2.127
ADMIN AND PUBLIC RELATIONS	172.16.2.128	255.255.255.128/25	172.16.2.129 to 172.16.2.254	172.16.2.255

## THIRD FLOOR

DEPARTMENT	NETWORK ADDRESS	SUBNET MASK	HOST ADDRESS RANGE	BROADCAST ADDRESS
ICT	172.16.3.0	255.255.255.128/25	172.16.3.1 to 172.16.3.126	172.16.3.127
SERVER-ROOM	172.16.3.128	255.255.255.128/25	172.16.3.129 to 172.16.3.254	172.16.3.143

## BETWEEN THE ROUTERS AND LAYER-3 SWITCHES

NO.	NETWORK ADDRESS	SUBNET MASK	HOST ADDRESS RANGE	BROADCAST ADDRESS
R1-MLS1	172.16.3.144	255.255.255.252	172.16.3.145 to 172.16.3.146	172.16.3.147
R1-MLS2	172.16.3.148	255.255.255.252	172.16.3.149 to 172.16.3.150	172.16.3.151
R2-MLS1	172.16.3.152	255.255.255.252	172.16.3.153 to 172.16.3.154	172.16.3.155
R3-MLS2	172.16.3.156	255.255.255.252	172.16.3.157 to 172.16.3.158	172.16.3.159