# Addressing Table

| Device | Interface | IP Address | Subnet Mask | Default Gateway |
| --- | --- | --- | --- | --- |
|  | G0/0 | *172.19.67.33* | 255.255.255.224 | N/A |
| EAST | G0/1 | 172.19.67.1 | 255.255.255.224 | N/A |
|  | S0/0/0 | 172.19.67.97 | 255.255.255.252 | N/A |
|  | G0/0 | 172.19.67.65 | 255.255.255.240 | N/A |
| WEST | G0/1 | 172.19.67.81 | 255.255.255.240 | N/A |
|  | S0/0/0 | 172.19.67.98 | 255.255.255.252 | N/A |
| ES-1 | VLAN 1 | 172.19.67.34 | 255.255.255.224 | 172.19.67.33 |
| ES-2 | VLAN 1 | 172.19.67.2 | 255.255.255.224 | 172.19.67.1 |
| WS-1 | VLAN 1 | 172.19.67.66 | 255.255.255.240 | 172.19.67.65 |
| WS-2 | VLAN 1 | 172.19.67.82 | 255.255.255.240 | 172.19.67.81 |
| E1-22 | NIC | 172.19.67.62 | 255.255.255.224 | 172.19.67.33 |
| E2-47 | NIC | 172.16.67.30 | 255.255.255.224 | 172.19.67.1 |
| W1-201 | NIC | 172.19.67.78 | 255.255.255.240 | 172.19.67.65 |
| W2-87 | NIC | 172.19.67.94 | 255.255.255.240 | 172.19.67.81 |

Host Requirements:

| LAN | Number of Addresses Required |
| --- | --- |
| ES-1 | 19 |
| ES-2 | 23 |
| WS-1 | 11 |
| WS-2 | 7 |

Design Requirements

| Subnet Description | Number of Hosts Needed | Network Address/CIDR | First Usable Host Address | Broadcast Address |
| --- | --- | --- | --- | --- |
| ES-2 | 23 | 172.19.67.0 | 172.19.67.1 | *172.16.67.31* |
| ES-1 | 19 | 172.19.67.32 | *172.19.67.33* | *172.19.67.63* |
| WS-1 | 11 | 172.19.67.64 | *172.19.67.65* | *172.19.67.79* |
| WS-2 | 7 | 172.19.67.80 | *172.19.67.81* | *172.19.67.95* |
| WAN LINK | 2 | 172.19.67.96 | *172.19.67.97* | *172.19.67.99* |