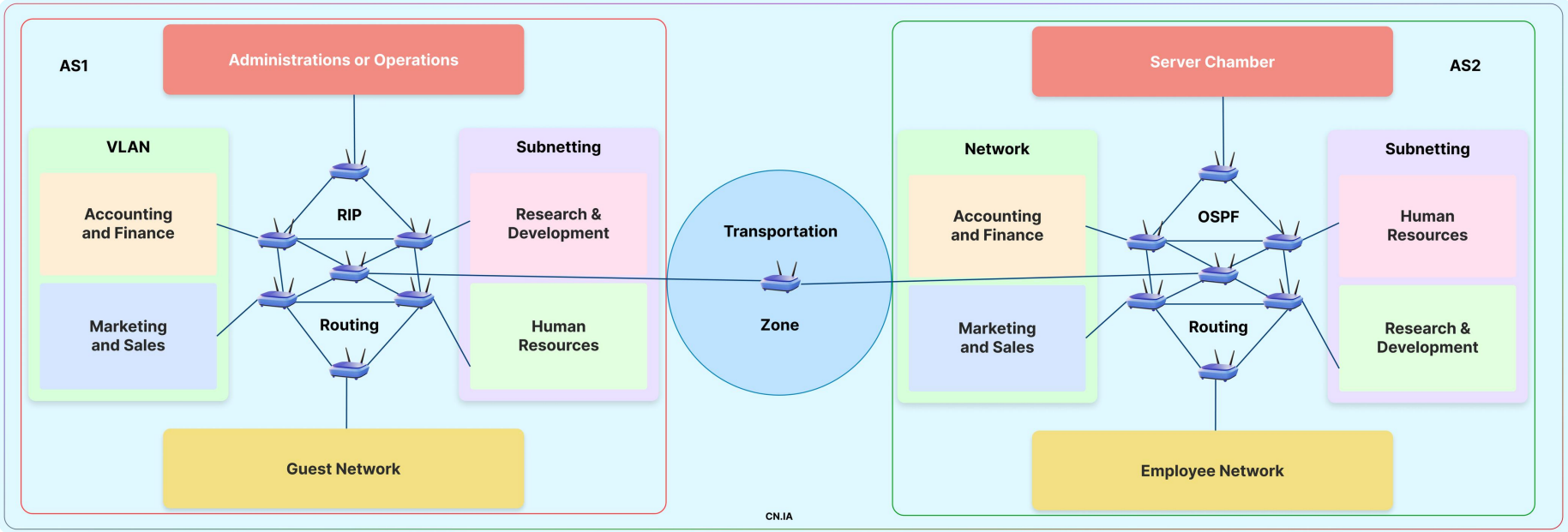


Enterprise Network Architecture



AS1 (RIP Routing Protocol)

VLAN (Accounting & Finance and Marketing & Sales)

VLAN (Using Sub Interface - Accounting & Finance)

VLAN Name	Subnet	IP Range	Usable Devices	Subnet Mask
VLAN1 (Major Account)	192.168.0.1/24	192.168.0.1 - 192.168.0.254	253	255.255.255.0
VLAN2 (Employees & Payroll)	193.169.0.1/24	193.169.0.1 - 193.169.0.254	253	255.255.255.0

VLAN (Using Two Connections - Marketing & Sales)

VLAN Name	Subnet	IP Range	Usable Devices	Subnet Mask
VLAN1 (Business & Sales)	172.16.0.0/16	172.16.0.1 - 172.16.255.254	65,534	255.255.0.0
VLAN2 (Creative & Social)	173.17.0.0/16	173.17.0.1 - 173.17.255.254	65,534	255.255.0.0

Subnetting (Resources & HR)

Resources and Developments Department

Subnet Name	Subnet	IP Range	Usable Devices	Subnet Mask
Subnet 1 (Applied Research)	171.2.0.0/25	171.2.0.1 - 171.2.0.126	126	255.255.255.128
Subnet 2 (Scientific Res.)	171.2.0.128/25	171.2.0.129 - 171.2.0.254	126	255.255.255.128

Human Resource

Subnet Name	Subnet	IP Range	Usable Devices	Subnet Mask
Subnet 3 (Comp. & Emp. Rel.)	175.18.0.0/26	175.18.0.1 - 175.18.0.62	62	255.255.255.192
Subnet 4 (Training & Rec.)	175.18.0.64/27	175.18.0.65 - 175.18.0.126	62	255.255.255.224

Other Networks

Network Name	Subnet	IP Range	Usable Devices	Subnet Mask
Guest Wi-Fi Network	192.168.4.1/24	192.168.4.1 - 192.168.4.254	253	255.255.255.0
Administration	8.0.0.0/8	8.0.0.1 - 8.255.255.255	16,777,214	255.0.0.0

AS2 (OSPF Routing Protocol)

Networks

Network Name	Subnet	IP Range	Usable Devices	Subnet Mask
Network 1 (Accounting & Fin.)	176.18.0.0/16	176.18.0.1 - 176.18.255.254	65,534	255.255.0.0
Network 2 (Client-Social)	177.18.0.0/16	177.18.0.1 - 177.18.255.254	65,534	255.255.0.0

Subnetting (Resources & HR)

Resources and Developments Department

Subnet Name	Subnet	IP Range	Usable Devices	Subnet Mask
Subnet 1 (Employee Relation)	10.1.15.0/25	10.1.15.1 - 10.1.15.126	126	255.255.255.128
Subnet 2 (Training & Rec.)	10.1.15.128/25	10.1.15.129 - 10.1.15.254	126	255.255.255.128

Human Resource

Subnet Name	Subnet	IP Range	Usable Devices	Subnet Mask
Subnet 3 (Scientific Res.)	10.1.32.0/26	10.1.32.1 - 10.1.32.62	62	255.255.255.192
Subnet 4 (Scientific Res.)	10.1.32.64/27	10.1.32.65 - 10.1.32.126	62	255.255.255.224

Other Networks

Network Name	Subnet	IP Range	Usable Devices	Subnet Mask
Employees Network	192.168.1.1/24	192.168.1.1 - 192.168.1.254	253	255.255.255.0
Server Room	8.0.0.0/8	8.0.0.1 - 8.255.255.255	16,777,214	255.0.0.0