

Data Network: 192.168.100.0/24

Voice Network: 172.16.100.0/24

**Departments:**

Information and Communications Technology

Finance

Sales

Human Resources

**PC + Printer Addressing**

ICT, FIN, SALES, HR: 21 devices

SRV: 4 devices

Department	Network	Subnet Mask	Host Range
ICT	192.168.100.0/27	255.255.255.224	192.168.100.1 - 192.168.100.30
FIN	192.168.100.32/27	255.255.255.224	192.168.33 - 192.168.100.62
SALES	192.168.100.64/27	255.255.255.224	192.168.100.65 - 192.168.100.94
HR	192.168.100.96/27	255.255.255.224	192.168.100.97 - 192.168.100.126
SRV	192.168.100.128/29	255.255.255.248	192.168.100.129 - 192.168.100.134

**IP Phones Addressing**

ICT, FIN, SALES, HR: 20 devices

Department	Network	Subnet Mask	Host Range
ICT	172.16.100.0/27	255.255.255.224	172.16.100.1 - 172.16.100.30
FIN	172.16.100.32/27	255.255.255.224	172.16.100.33 - 172.16.100.62
SALES	172.16.100.64/27	255.255.255.224	172.16.100.65 - 172.16.100.94
HR	172.16.100.96/27	255.255.255.224	172.16.100.97 - 172.16.100.126

**Inter-Router Addressing**

Routers	Network Address
ICT - FIN	10.10.10.0/30
FIN - HR	10.10.10.4/30
HR - SALES	10.10.10.8/30
SALES - ICT	10.10.10.12/30

### **Router Addressing**

<b>Device</b>	<b>Interface</b>	<b>IP Address</b>	<b>Subnet Mask</b>
ICT-RTR	Se0/0/0	<b>10.10.10.1/30</b>	<b>255.255.255.252</b>
	Se0/0/1	<b>10.10.10.14/30</b>	<b>255.255.255.252</b>
	Fa0/0	<b>192.168.100.129/29</b>	<b>255.255.255.248</b>
	Fa0/1 (Data)	<b>192.168.100.1/27</b>	<b>255.255.255.224</b>
	Fa0/1 (Voice)	<b>172.16.100.1/27</b>	<b>255.255.255.224</b>
FIN-RTR	Se0/0/0	<b>10.10.10.5/30</b>	<b>255.255.255.252</b>
	Se0/0/1	<b>10.10.10.2/30</b>	<b>255.255.255.252</b>
	Fa0/0 (Data)	<b>192.168.100.33/27</b>	<b>255.255.255.224</b>
	Fa0/0 (Voice)	<b>172.16.100.33/27</b>	<b>255.255.255.224</b>
SALES-RTR	Se0/0/0	<b>10.10.10.13/30</b>	<b>255.255.255.252</b>
	Se0/0/1	<b>10.10.10.10/30</b>	<b>255.255.255.252</b>
	Fa0/0 (Data)	<b>192.168.100.65/27</b>	<b>255.255.255.224</b>
	Fa0/0 (Voice)	<b>172.16.100.65/27</b>	<b>255.255.255.224</b>
HR-RTR	Se0/0/0	<b>10.10.10.9/30</b>	<b>255.255.255.252</b>
	Se0/0/1	<b>10.10.10.6/30</b>	<b>255.255.255.252</b>
	Fa0/0 (Data)	<b>192.168.100.97/27</b>	<b>255.255.255.224</b>
	Fa0/0 (Voice)	<b>172.16.100.97/27</b>	<b>255.255.255.224</b>