Kalam Telecom IP Addresses	
Internal Network	172.17.0.0/16
MPLS backbone	192.168.1.0/24
Public IP	74.211.4.0/27

Kalam Telecom VLANs	
IT Department	172.17.10.0/24
Finance Department	172.17.20.0/24
SWManagement VLAN	172.17.99.0/24
Infrastructure Devices	172.17.100.0/24

Batelco IP Addresses	
Public IP	54.40.61.0/25

ABC Company Branch 1 VLANs	
IT Department	172.20.10.0/24
Sales Department	172.20.20.0/24
Executive VLAN	172.20.30.0/24

ABC Company Branch 2 VLANs	
IT Department	172.21.10.0/24
Accounting Department	172.21.20.0/24
Executive VLAN	172.21.30.0/24

XYZ Company Branch 1 VLANs	
IT Department	172.23.10.0/24
Sales Department	172.23.20.0/24
Executive VLAN	172.23.30.0/24

XYZ Company Branch 2 VLANs	
IT Department	172.24.10.0/24
Accounting Department	172.24.20.0/24
Executive VLAN	172.24.30.0/24

XYZ Company Branch 3 VLANs	
IT Department	172.25.10.0/24
Accounting Department	172.25.20.0/24

Executive VLAN	172.25.30.0/24

Kalam Telecom IP Address Shema				
Device	Interface	IP Address	Subnet Mask	Default Gateway
Kalam-PE1	E0/0 (Kalam-PE2)	192.168.1.1	255.255.255.252	N/A
	E0/1 (Kalam-PE3)	192.168.1.5	255.255.255.252	N/A
	S1/0 (XYZ-1-CE)	74.211.4.5	255.255.255.252	N/A
	S1/1 (ABC-1-CE)	74.211.4.1	255.255.255.252	N/A
	Lo0	1.1.1.1	255.255.255.255	N/A
	Lo1	11.11.11.1	255.255.255.255	N/A
Kalam-PE2	E0/0 (Kalam-PE1)	192.168.1.2	255.255.255.252	N/A
	E0/1 (Kalam-P2)	192.168.1.9	255.255.255.252	N/A
	E0/2 (Kalam-R1)	172.17.255.2	255.255.255.252	N/A
	S1/0 (Batelco-PE1)	74.211.4.9	255.255.255.252	N/A
	S1/1 (XYZ-1-CE)	74.211.4.13	255.255.255.252	N/A
	Lo0	1.1.1.2	255.255.255.255	N/A
	Lo1	11.11.11.2	255.255.255.255	N/A
Kalam-PE3	E0/0 (Kalam-P1)	192.168.1.13	255.255.255.252	N/A
	E0/1 (Kalam-PE1)	192.168.1.6	255.255.255.252	N/A
	E0/2 (Kalam-R1)	172.17.255.6	255.255.255.252	N/A
	S1/0 (ABC-1-CE)	74.211.4.17	255.255.255.252	N/A
	Lo0	1.1.1.3	255.255.255.255	N/A
	Lo1	11.11.11.3	255.255.255.255	N/A
Kalam-PE4	E0/0 (Kalam-PE6)	192.168.1.38	255.255.255.252	N/A
	E0/1 (Kalam-PE5)	192.168.1.33	255.255.255.252	N/A
	S1/0 (XYZ-2-CE)	74.211.4.21	255.255.255.252	N/A
	S1/1 (ABC-2-CE)	74.211.4.25	255.255.255.252	N/A
	Lo0	1.1.1.4	255.255.255.255	N/A
	Lo1	11.11.11.4	255.255.255.255	N/A
Kalam-PE5	E0/0 (Kalam-P3)	192.168.1.30	255.255.255.252	N/A
	E0/1 (Kalam-PE4)	192.168.1.34	255.255.255.252	N/A
	E0/2 (Kalam-R2)	172.17.255.14	255.255.255.252	N/A
	S1/0 (ABC-2-CE)	74.211.4.29	255.255.255.252	N/A
	Lo0	1.1.1.5	255.255.255.255	N/A
	Lo1	11.11.11.5	255.255.255.255	N/A
Kalam-PE6	E0/0 (Kalam-PE4)	192.168.1.37	255.255.255.252	N/A
	E0/1 (Kalam-P4)	192.168.1.26	255.255.255.252	N/A
	E0/2 (Kalam-R2)	172.17.255.10	255.255.255.252	N/A
	S1/1 (XYZ-2-CE)	74.211.4.33	255.255.255.252	N/A
	Lo0	1.1.1.6	255.255.255.255	N/A
	Lo1	11.11.11.6	255.255.255.255	N/A
Kalam-P1	E0/0 (Kalam-PE3)	192.168.1.14	255.255.255.252	N/A
	E0/1 (Kalam-P3)	192.168.1.21	255.255.255.252	N/A
	Lo0	1.1.2.1	255.255.255.255	N/A
Kalam-P2	E0/0 (Kalam-P4)	192.168.1.17	255.255.255.252	N/A

Device	Interface	IP Address	Subnet Mask	Default Gateway
	E0/1 (Kalam-PE2)	192.168.1.10	255.255.255.252	N/A
	Lo0	1.1.2.2	255.255.255.255	N/A
Kalam-P3	E0/0 (Kalam-PE5)	192.168.1.29	255.255.255.252	N/A
	E0/1 (Kalam-P1)	192.168.1.22	255.255.255.252	N/A
	Lo0	1.1.2.3	255.255.255.255	N/A
Kalam-P4	E0/0 (Kalam-P2)	192.168.1.18	255.255.255.252	N/A
	E0/1 (Kalam-PE6)	192.168.1.25	255.255.255.252	N/A
	Lo0	1.1.2.4	255.255.255.255	N/A
Kalam-R1	E0/0 (Kalam-PE2)	172.17.255.1	255.255.255.252	N/A
	E0/1 (KKalam-PE3)	172.17.255.5	255.255.255.252	N/A
	E0/2.10	172.17.10.1	255.255.255.0	N/A
	E0/2.20	172.17.20.1	255.255.255.0	N/A
	E0/2.99	172.17.99.1	255.255.255.0	N/A
	E0/2.100	172.17.100.1	255.255.255.0	N/A
	E0/3 (Kalam-R2)	172.17.255.18	255.255.255.252	N/A
Kalam-R2	E0/0 (Kalam-PE6)	172.17.255.9	255.255.255.252	N/A
	E0/1 (Kalam-PE5)	172.17.255.13	255.255.255.252	N/A
	E0/2.10	172.17.10.2	255.255.255.0	N/A
	E0/2.20	172.17.20.2	255.255.255.0	N/A
	E0/2.99	172.17.99.2	255.255.255.0	N/A
	E0/2.100	172.17.100.2	255.255.255.0	N/A
	E0/3 (Kalam-R1)	172.17.255.17	255.255.255.252	N/A
Kalam-SW1	VLAN 99	172.17.99.11	255.255.255.0	172.17.99.100
Kalam-SW2	VLAN 99	172.17.99.12	255.255.255.0	172.17.99.100
Kalam-SW3	VLAN 99	172.17.99.13	255.255.255.0	172.17.99.100
IT-Desktop	E0	172.17.10.10	255.255.255.0	172.17.10.100
Finance-Desktop	E0	172.17.20.10	255.255.255.0	172.17.20.100
AAA-Syslog Server	E0	172.17.100.10	255.255.255.0	172.17.100.100

Batelco IP Address Schema				
Device	Interface	IP Address	Subnet Mask	Default Gateway
Batelco-PE1	E0/0 (Batelco-PE2)	54.40.61.1	255.255.255.252	N/A
	E0/1 (Batelco-PE3)	54.40.61.5	255.255.255.252	N/A
	S1/0 **(Kalam-PE1)**	74.211.4.10	255.255.255.252	N/A
	Lo0	2.2.2.1	255.255.255.255	N/A
Batelco-PE2	E0/0 (Batelco-PE1)	54.40.61.2	255.255.255.252	N/A
	E0/1 (Batelco-PE4)	54.40.61.9	255.255.255.252	N/A
	Lo0	2.2.2.2	255.255.255.255	N/A
Batelco-PE3	E0/0 (Batelco-PE4)	54.40.61.13	255.255.255.252	N/A
	E0/1 (Batelco-PE1)	54.40.61.6	255.255.255.252	N/A
	Lo0	2.2.2.3	255.255.255.255	N/A
Batelco-PE4	E0/0 (Batelco-PE3)	54.40.61.14	255.255.255.252	N/A
	E0/1 (Batelco-PE2)	54.40.61.10	255.255.255.252	N/A

	S1/0 (XYZ-3-CE)	54.40.61.17	255.255.255.252	N/A
	Lo0	2.2.2.4	255.255.255.255	N/A

ABC Company Branch 1 (172.20.0.0/16)				
Device	Interface	IP Address	Subnet Mask	Default Gateway
ABC-1-CE	S1/0 (Kalam-PE3)	74.211.4.18	255.255.255.252	N/A
	S1/1 (Kalam-PE1)	74.211.4.2	255.255.255.252	N/A
	E0/0.10	172.20.10.1	255.255.255.0	N/A
	E0/0.20	172.20.20.1	255.255.255.0	N/A
	E0/0.30	172.20.99.1	255.255.255.0	N/A
	Lo0	10.10.10.10	255.255.255.255	N/A

ABC Company Branch 2 (172.21.0.0/16)				
ABC-2-CE	S1/0 (Kalam-PE5)	74.211.4.30	255.255.255.252	N/A
	S1/1 (Kalam-PE4)	74.211.4.26	255.255.255.252	N/A
	E0/0.10	172.21.10.1	255.255.255.0	N/A
	E0/0.20	172.21.20.1	255.255.255.0	N/A
	E0/0.30	172.21.99.1	255.255.255.0	N/A
	Lo0	20.20.20.20	255.255.255.255	N/A

XYZ Company Branch 1 (172.23.0.0/16)				
Device	Interface	IP Address	Subnet Mask	Default Gateway
XYZ-1-CE	S1/0 (Kalam-PE1)	74.211.4.6	255.255.255.252	N/A
	S1/1 (Kalam-PE2)	74.211.4.14	255.255.255.252	N/A
	E0/0.10	172.23.10.1	255.255.255.0	N/A
	E0/0.20	172.23.20.1	255.255.255.0	N/A
	E0/0.30	172.23.99.1	255.255.255.0	N/A
	Lo0	110.110.110	255.255.255.255	N/A

XYZ Company Branch 2 (172.24.0.0/16)				
XYZ-2-CE	S1/0 (Kalam-PE4)	74.211.4.22	255.255.255.252	N/A
	S1/1 (Kalam-PE6)	74.211.4.34	255.255.255.252	N/A
	E0/0.10	172.24.10.1	255.255.255.0	N/A
	E0/0.20	172.24.20.1	255.255.255.0	N/A
	E0/0.30	172.24.99.1	255.255.255.0	N/A
	Lo0	120.120.120.120	255.255.255.255	N/A

XYZ Company Branch 3				
XYZ-3-CE	S1/0 (Batelco-PE4)	54.40.61.18	255.255.255.252	N/A
	E0/0.10	172.25.10.1	255.255.255.0	N/A
	E0/0.20	172.25.20.1	255.255.255.0	N/A

	E0/0.30	172.25.30.1	255.255.255.0	N/A
	Lo0	130.130.130.130	255.255.255.255	N/A

VRF IDs	
ABC company	100
XYZ Company	200

Route Distinguisher (RD) Table		
VRF	Route Distinguisher	Router / Interface
ABC company	1.1.1.1:100	Kalam-PE1 / S1/1
	1.1.1.3:100	Kalam-PE3 / S1/0
	1.1.1.4:100	Kalam -PE4 / S1/1
	1.1.1.5:100	Kalam -PE5 / S1/0
XYZ Company	1.1.1.1:200	Kalam -PE1 / S1/0
	1.1.1.2:200	Kalam -PE2 / S1/1
	1.1.1.4:200	Kalam -PE4 / S1/0
	1.1.1.6:200	Kalam -PE6/ S1/1
	2.2.2.4:200	Batelco-PE4 / S1/0

Route Target (RT) Table	
VRF	Route Target
ABC company	65001:100
XYZ Company	65002:200

VTP	
VTP Domain Name	KalamVTP
VTP Password	123@Kalam

Usernames & Passwords		
Username	Password	Device
LocalAdmin	123456	Local Device
RadAdmin	654321	Radius Server

Router IDs	
Kalam-PE1	1.1.1.1
Kalam-PE2	1.1.1.2
Kalam-PE3	1.1.1.3
Kalam-PE4	1.1.1.4
Kalam-PE5	1.1.1.5
Kalam-PE6	1.1.1.6
Kalam-P1	1.1.2.1
Kalam-P2	1.1.2.2
Kalam-P3	1.1.2.3
Kalam-P4	1.1.2.4
Kalam-R1	1.1.3.1
Kalam-R2	1.1.3.2
Batelco-PE1	2.2.2.1
Batelco-PE2	2.2.2.2
Batelco-PE3	2.2.2.3
Batelco-PE4	2.2.2.4