## VLSM ADDRESS TABLE

Name	Host	Needed	Given	Host bit	Networ k bit	Network address
Cintra	1000	2002	2048	11	21	192.168.192 .0/21
Aedrin	800	1602	2048	11	21	192.168.208 .0/21
Kaedwen	784	1570	2048	11	21	192.168.212 .0/21
Kovir	519	1040	2048	11	21	192.168.220 .0/21
Renedia	401	804	1024	10	22	192.168.216 .0/22
Temeria	302	606	1024	10	22	192.168.200 .0/22
Wan1	2	8	8	3	29	192.168.224 .0/29
Wan2	2	8	8	3	29	192.168.224 .8/29
wan3	2	8	8	3	29	192.168.224 .16/29

Wan4	2	8	8	3	29	192.168.224 .24/29
Wan5	2	8	8	3	29	192.168.224 .32/29
Wan6	2	8	8	3	29	192.168.224 .40/29
wan7	2	8	8	3	29	192.168.224 .48/29
Wan8	2	8	8	3	29	192.168.248 .0/29

# IP ADDRESS TABLE

Devices	Interface	Pv4 Address	Subnet Mask	Default Gateway
Cintra	S0/0	92.168.224.11	255.255.255.248	N/A
	S1/0	92.168.224.17	55.255.255.248	N/A
	G3/0	92.168.192.1	255.255.248.0	N/A
Aderin	S0/0	92.168.224.57	55.255.255.248	N/A

		,	
S1/0	92.168.224.33	55.255.255.248	N/A
S2/0	92.168.224.27	55.255.255.248	N/A
G3/0	92.168.208.1	255.255.248.0	N/A
S0/0	92.168.224.59	55.255.255.248	N/A
S1/0	92.168.224.51	55.255.255.248	N/A
S2/0	92.168.224.43	55.255.255.248	N/A
G3/0	92.168.220.1	255.255.252.0	N/A
S0/0	92.168.248.43	55.255.255.248	N/A
S1/0	92.168.248.83	55.255.255.248	N/A
S2/0	92.168.248.35	55.255.255.248	N/A
G3/0	92.168.212.1	255.255.252.0	N/A
S0/0	92.168.224.9	55.255.255.248	N/A
S1/0	92.168.224.49	55.255.255.248	N/A
			N/A
			N/A
	S2/0 G3/0 S0/0 S1/0 S2/0 G3/0 S1/0 S1/0 S1/0 S1/0 S2/0 S1/0	S2/0       92.168.224.27         G3/0       92.168.208.1         S0/0       92.168.224.59         S1/0       92.168.224.51         S2/0       92.168.224.43         G3/0       92.168.220.1         S0/0       92.168.248.43         S1/0       92.168.248.83         S2/0       92.168.248.35         G3/0       92.168.212.1         S0/0       92.168.224.9         S1/0       92.168.224.49         S2/0       92.168.224.1	S2/0       92.168.224.27       55.255.255.248         G3/0       92.168.208.1       255.255.248.0         S0/0       92.168.224.59       55.255.255.248         S1/0       92.168.224.51       55.255.255.248         S2/0       92.168.224.43       55.255.255.255.248         G3/0       92.168.220.1       255.255.255.252.0         S0/0       92.168.248.43       55.255.255.255.248         S1/0       92.168.248.83       55.255.255.255.248         G3/0       92.168.248.35       55.255.255.255.248         G3/0       92.168.212.1       255.255.255.252.0         S0/0       92.168.224.9       55.255.255.255.248         S1/0       92.168.224.9       55.255.255.255.248         S1/0       92.168.224.49       55.255.255.255.248         S2/0       92.168.224.1       55.255.255.255.248

				1
Temiria	S1/0	92.168.224.19	55.255.255.248	N/A
	s0/0	92.168.224.57	55.255.255.248	N/A
	S2/0	32.168.224.25	55.255.255.248	N/A
	G3/0	92.168.220.1	255.255.252.0	N/A
eb server	F0	2.168.192.252	255.255.252.0	192.168.192.1
/ DNS Server	F0	2.168.192.254	255.255.248.0	192.168.192.1
nail Server	F0	)HCP Assign	255.255.248.0	192.168.200.1
PC0	F0	92.168.212.3	255.255.252.0	192.168.212.1
PC1	F0	92.168.212.5	255.255.252.0	192.168.212.1
PC2	F0	92.168.192.3	255.255.248.0	192.168.192.1
PC3	F0	92.168.192.5	255.255.248.0	192.168.192.1
PC4	F0	92.168.220.3	255.255.252.0	192.168.220.1
PC5	F0	92.168.220.5	255.255.252.0	192.168.220.1
PC6	F0	92.168.200.3	255.255.248.0	192.168.200.1
PC7	F0	92.168.200.5	255.255.248.0	192.168.200.1

PC8	F0	92.168.208.3	255.255.252.0	192.168.208.1
PC9	F0	92.168.208.5	255.255.252.0	192.168.208.1
PC10	F0	92.168.216.3	255.255.252.0	192.168.216.1
PC11	F0	92.168.216.5	255.255.252.0	192.168.216.1

#### Cintra Router:

Cintra>en

Cintra#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Cintra(config)#int s0/0

Cintra(config-if)#ip address 192.168.224.11 255.255.255.248

Cintra(config-if)#clock rate 2000000

Cintra(config-if)#int s1/0

Cintra(config-if)#ip address 192.168.224.17 255.255.255.248

Cintra(config-if)#clock rate 2000000

This command applies only to DCE interfaces

Cintra(config-if)#int s2/0

Cintra(config-if)#no ip address

Cintra(config-if)#clock rate 2000000

### Cintra(config-if)#no shut down

Cintra(config)#int g 3/0 Cintra(config-if)#ip address 192.168.192.1 255.255.248.0 Cintra(config-if)#no shut down

Cintra(config-if)#end

Cintra#

%SYS-5-CONFIG\_I: Configured from console by console

Cintra#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

Cintra#

cintra/en
cintra/conf t
Enter configuration commands, one per line. End with CNTL/Z.
cintra(config)/#router rip
cintra(config-router)/#version 2
cintra(config-router)/#passive-interface g3/0
cintra(config-router)/#network 192.0.0.0
cintra(config-router)/#no auto-summary
cintra(config-router)/#!
cintra(config-router)/#!
cintra(config-router)/#ip classless

% Invalid input detected at '^' marker.

cintra(config-router)#ip route 192.168.208.0 255.255.252.0 Serial0/0 cintra(config)#ip route 192.168.200.0 255.255.252.0 Serial1/0 cintra(config)#ip route 192.168.216.0 255.255.252.0 Serial0/0 cintra(config)#! cintra(config)#ip flow-export version 9 cintra(config)#no cdp run cintra(config)#line con 0 cintra(config-line)#line vty 0 4 cintra(config-line)#login % Login disabled on line 132, until 'password' is set % Login disabled on line 133, until 'password' is set % Login disabled on line 134, until 'password' is set % Login disabled on line 135, until 'password' is set % Login disabled on line 136, until 'password' is set cintra(config-line)#end cintra# %SYS-5-CONFIG I: Configured from console by console

cintra#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
cintra#

Aedrin

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname adrin

adrin(config)#int s 0/0

adrin(config-if)#ip address 192.168.224.57 255.255.255.248

adrin(config-if)#clock rate 2000000

This command applies only to DCE interfaces

adrin(config-if)#int s1/0

adrin(config-if)#ip address 192.168.224.33 255.255.255.248

adrin(config-if)#clock rate 2000000

adrin(config-if)#int s 2/0

adrin(config-if)#ip address 192.168.224.27 255.255.255.248

adrin(config-if)#clock rate 2000000

This command applies only to DCE interfaces

adrin(config-if)#int g 3/0

adrin(config-if)#ip address 192.168.208.1 255.255.248.0

adrin(config-if)#no shut

adrin(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet3/0, changed state to up

adrin(config-if)#end

adrin#

%SYS-5-CONFIG I: Configured from console by console

adrin#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

adrin#

Kovir

Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname kovir
kovir(config)#int s 0/0

kovir(config-if)#ip address 192.168.224.59 255.255.248 kovir(config-if)#clock rate 2000000

This command applies only to DCE interfaces kovir(config-if)#int s1/0
kovir(config-if)#ip address 192.168.224.51 255.255.255.248 kovir(config-if)#clock rate 2000000 kovir(config-if)#int s2/0 kovir(config-if)#ip address 192.168.224.43 255.255.248 kovir(config-if)#clock rate 2000000

kovir(config-if)#int g3/0 kovir(config-if)#ip address 192.168.220.1 255.255.252.0 kovir(config-if)#no shut

kovir(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet3/0, changed state to up

kovir(config-if)#end

kovir#

%SYS-5-CONFIG I: Configured from console by console

kovir#copy run start
Destination filename [startup-config]?
Building configuration...

[OK]

kovir#

kovir#

Kaedwen

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname kaedwen

kaedwen(config)#int s0/0

kaedwen(config-if)#Router>en

۸

% Invalid input detected at '^' marker.

kaedwen(config-if)#Router#conf t

۸

% Invalid input detected at '^' marker.

kaedwen(config-if)#Enter configuration commands, one per line. End with CNTL/Z.

% Invalid input detected at '^' marker.

kaedwen(config-if)#Router(config)#hostname kovir

۸

% Invalid input detected at '^' marker.

kaedwen(config-if)#kovir(config)#int s 0/0

۸

% Invalid input detected at '^' marker.

kaedwen(config-if)#ip address 192.168.248.43 255.255.255.248 kaedwen(config-if)#clock rate 2000000 This command applies only to DCE interfaces kaedwen(config-if)#no shut

kaedwen(config-if)#

%LINK-5-CHANGED: Interface Serial0/0, changed state to up

kaedwen(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up

kaedwen(config-if)#int s1/0 kaedwen(config-if)#ip address 192.168.248.83 255.255.255.248 kaedwen(config-if)#clock rate 2000000 kaedwen(config-if)#no shut

%LINK-5-CHANGED: Interface Serial1/0, changed state to down

kaedwen(config-if)#

kaedwen(config-if)#int s2/0

kaedwen(config-if)#ip address 192.168.248.83 255.255.255.248

% 192.168.248.80 overlaps with Serial1/0

kaedwen(config-if)#ip address 192.168.248.35 255.255.255.248

kaedwen(config-if)#clock rate 2000000

kaedwen(config-if)#no shut

kaedwen(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

kaedwen(config-if)#int g3/0

kaedwen(config-if)#ip address

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

% Incomplete command. kaedwen(config-if)#int g3/0 kaedwen(config-if)#ip address 192.168.212.1 255.255.252.0 kaedwen(config-if)#no shut

kaedwen(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet3/0, changed state to up

kaedwen(config-if)#end kaedwen# %SYS-5-CONFIG I: Configured from console by console

kaedwen#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
kaedwen#

Redenia

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostnmae redenia

٨

% Invalid input detected at '^' marker.

Router(config)#hostname redenia

redenia(config)#int s0/0

redenia(config-if)#ip address 192.168.224.9 255.255.255.248

redenia(config-if)#clock rate 2000000

This command applies only to DCE interfaces

redenia(config-if)#no shut

redenia(config-if)#

%LINK-5-CHANGED: Interface Serial0/0, changed state to up

redenia(config-if)#int

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up

٨

% Invalid input detected at '^' marker.

redenia(config-if)#int s1/0

redenia(config-if)#ip address 192.168.224.49 255.255.255.248

redenia(config-if)#clock rate 2000000

redenia(config-if)#no shut

%LINK-5-CHANGED: Interface Serial1/0, changed state to down

redenia(config-if)#

redenia(config-if)#int s2/0

redenia(config-if)#ip address 192.168.224.1 255.255.255.248

redenia(config-if)#clock rate 2000000

redenia(config-if)#no shut

redenia(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

redenia(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

redenia(config-if)#int g3/0

redenia(config-if)#ip address 192.168.216.1 255.255.252.0

redenia(config-if)#no shut

redenia(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet3/0, changed state to up

```
redenia(config-if)#end
```

redenia#

%SYS-5-CONFIG I: Configured from console by console

redenia#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

redenia#

Temeria

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#hostname temeria

temeria(config)#int s1/0

temeria(config-if)#ip address 192.168.224.19 255.255.255.248

temeria(config-if)#clock rate 2000000

This command applies only to DCE interfaces

temeria(config-if)#no shut

temeria(config-if)#

%LINK-5-CHANGED: Interface Serial1/0, changed state to up

temeria(config-if)#int

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial 1/0, changed state to up

۸

% Invalid input detected at '^' marker.

temeria(config-if)#int s0/0

temeria(config-if)#ip address 192.168.224.57 255.255.255.248

temeria(config-if)#clock rate 2000000

This command applies only to DCE interfaces temeria(config-if)#no shut

temeria(config-if)#

%LINK-5-CHANGED: Interface Serial0/0, changed state to up

temeria(config-if)#

temeria(config-if)#int s2/0

temeria(config-if)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up

temeria(config-if)#int s2/0

temeria(config-if)#ip address 192.168.224.25 255.255.255.248

temeria(config-if)#clock rate 2000000

This command applies only to DCE interfaces

temeria(config-if)#no shut

temeria(config-if)#

%LINK-5-CHANGED: Interface Serial2/0, changed state to up

temeria(config-if)#

temeria(config-if)#

temeria(config-if)#

temeria(config-if)#int g3/

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

٨

% Invalid input detected at '^' marker.

temeria(config-if)#int g3/0

temeria(config-if)#ip address 192.168.220.1 255.255.252.0

temeria(config-if)#no shut

temeria(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet3/0, changed

state to up

temeria(config-if)#end

temeria#

%SYS-5-CONFIG\_I: Configured from console by console

temeria#copy run start
Destination filename [startup-config]?
Building configuration...
[OK]
temeria#

Kovir\_DHCP

en

kovir#conf t

Enter configuration commands, one per line. End with CNTL/Z.

kovir(config)#ip dhcp excluded-address 192.168.220.1

kovir(config)#ip dhcp excluded-address 192.168.220.2

kovir(config)#ip dhcp excluded-address 192.168.220.4

kovir(config)#ip dhcp excluded-address 192.168.220.6

kovir(config)#ip dhcp excluded-address 192.168.220.8

kovir(config)#ip dhcp excluded-address 192.168.220.10

kovir(config)#ip dhcp pool kovir\_lan

kovir(dhcp-config)#default-router 192.168.220.1

kovir(dhcp-config)#network 192.168.220.0 255.255.252.0

kovir(dhcp-config)#dns-server 192.168.192.254

kovir(dhcp-config)#exit

kovir(config)#exit

kovir#copy run start

Destination filename [startup-config]?

Building configuration...

[OK]

kovir#

Temeria DHCP

temeria#conf t

Enter configuration commands, one per line. End with CNTL/Z.

temeria(config)#ip dhcp excluded-address 192.168.200.1 temeria(config)#ip dhcp excluded-address 192.168.200.2 temeria(config)#ip dhcp excluded-address 192.168.200.4 temeria(config)#ip dhcp excluded-address 192.168.200.6 temeria(config)#ip dhcp excluded-address 192.168.200.8 temeria(config)#ip dhcp excluded-address 192.168.200.10 temeria(config)#ip dhcp pool Temeria lan temeria(dhcp-config)#default-router 192.168.200.1 temeria(dhcp-config)#network 192.168.200.0 255.255.252.0 temeria(dhcp-config)#exit temeria(config)#exit temeria#copy run start Destination filename [startup-config]? Building configuration... [OK] temeria#

#### Redemia DHCp

redenia(config)#ip dhcp excluded-address 192.168.216.1 redenia(config)#ip dhcp excluded-address 192.168.216.2 redenia(config)#ip dhcp excluded-address 192.168.216.4 redenia(config)#ip dhcp excluded-address 192.168.216.6 redenia(config)#ip dhcp excluded-address 192.168.216.8 redenia(config)#ip dhcp excluded-address 192.168.216.10 redenia(config)#default-router 192.168.216.1

% Invalid input detected at '^' marker.

redenia(config)#ip dhcp pool Redemia\_Lan redenia(dhcp-config)#default-router 192.168.216.1 redenia(dhcp-config)#network 192.168.216.0 255.255.252.0 redenia(dhcp-config)#dns-server 192.168.192.254 redenia(dhcp-config)#exit redenia(config)#exit redenia#cop %SYS-5-CONFIG\_I: Configured from console by console y run start Destination filename [startup-config]?

Building configuration...
[OK]
redenia#

Kaedwen\_DHCP kaedwen>enable

kaedwen#

kaedwen#configure terminal

Enter configuration commands, one per line. End with CNTL/Z.

kaedwen(config)#

kaedwen(config)#

?Bad filename

%Error parsing filename (Bad file number)

kaedwen(config)#ip dhcp excluded-address 192.168.212.1

kaedwen(config)#ip dhcp excluded-address 192.168.212.2

kaedwen(config)#ip dhcp excluded-address 192.168.212.4

kaedwen(config)#ip dhcp excluded-address 192.168.212.6

kaedwen(config)#ip dhcp excluded-address 192.168.212.8

kaedwen(config)#ip dhcp excluded-address 192.168.212.10

kaedwen(config)#ip dhcp pool kaedwen\_lan

kaedwen(dhcp-config)#default-router 192.168.212.1

kaedwen(dhcp-config)#network 192.168.212.0 255.255.252.0

kaedwen(dhcp-config)#dns-server 192.168.192.254

kaedwen(dhcp-config)#exit

kaedwen(config)#exit

kaedwen#

%SYS-5-CONFIG\_I: Configured from console by console

kaedwen#copy run start
Destination filename [startup-config]?