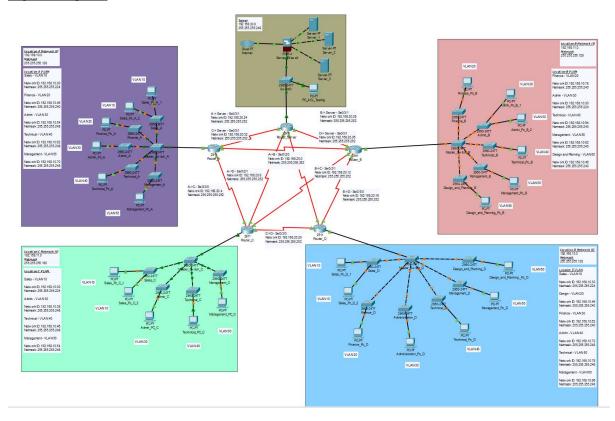
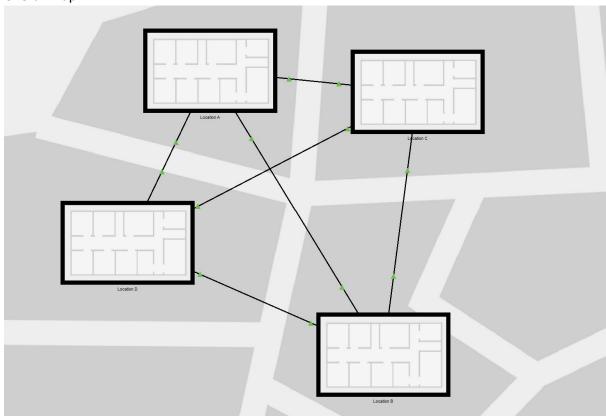
Logical Diagram

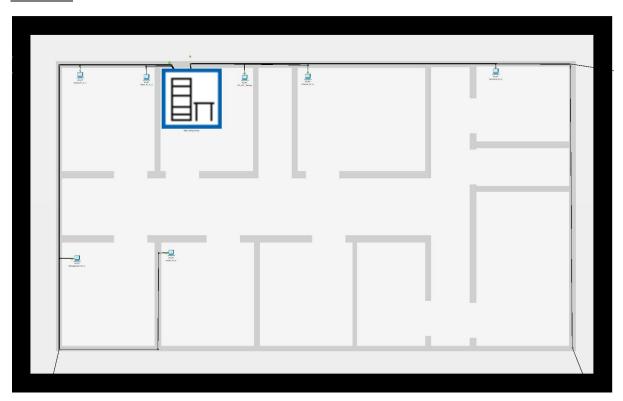


Physical Diagram

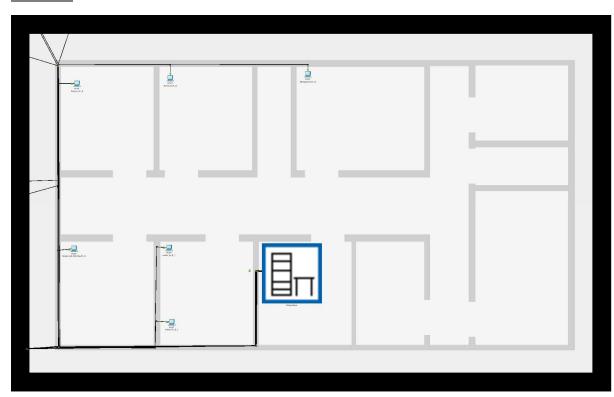
Overall map



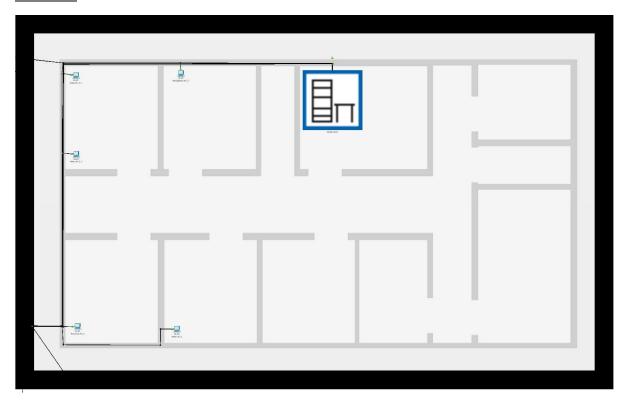
<u>Location A</u>



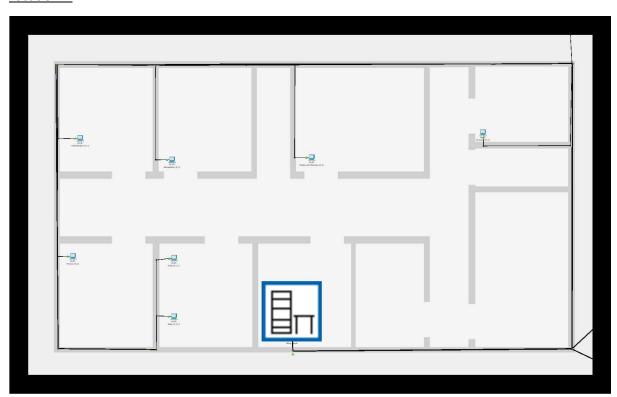
<u>Location B</u>



<u>Location C</u>



<u>Location D</u>



IP Addressing Scheme

VISM									Sunny Subnett	ing Table								
Network ID:192.168.10	0.0/25								Subnet Host	1 256	1 2 6 128		4 64		16 :	32 64 8 4	4 12	28 2
Location A									Subnet Mask	/24	/25	/26	/27	/28	/29	/30	/31	/32
Department	Hosts Require	d Host Available	Unused	Network Address	Mask	Range	Broadcast	Wildcard	Department	Hosts Neede	128	(54	32 1	16	8 4	1	2
Sales Finance	2	8 3	10	2 192.168.10.0 2 192.168.10.32	255.255.255.224 255.255.255.240	192.168.10.1 - 192.168.10.30 192.168.10.33 - 192.168.10.46	192.168.10.31 192.168.10.47	0.0.0.31	Sales Finance	28 12	8 1		1	1		0 0	0	0
Admin		5	6	1 192.168.10.48	255.255.255.248	192.168.10.49 - 192.168.10.54	192.168.10.55	0.0.0.7	Admin		1		1	1			0	0
Technical Management		3	6	2 192.168.10.56 3 192.168.10.64	255.255.255.248 255.255.255.248	192.168.10.57 - 192.168.10.62 192.168.10.65 - 192.168.10.70	192.168.10.71	0.0.0.7	Technical Management		1 1		1	1	1	1	1	0
Wan Link		1	2	1 192.168.10.72	255.255.255.252	192.168.10.73 - 192.168.10.74	192.168.10.75	0.0.0.3										
Network ID:192.168.11	1.0/25																	
Location B																		
	Hosts Paguire	d Host Available	Unused	Network Address	Mack	Pange	Broadcast	Wildcard	Dengrtment	Hosts Neede	128		54	32 1	16	8 4		2
Department Admin	1	5 3	0 1	5 192.168.11.0	255.255.255.224	Range 192.168.11.1 - 192.168.11.30	192.168.11.31	0.0.0.31	Admin	15	5 1		1	1	0		0	0
Design Management	1			4 192.168.11.32 4 192.168.11.48	255.255.255.240 255.255.255.240	192.168.11.33 - 192.168.11.46 192.168.11.49 - 192.168.11.62	192.168.11.47 192.168.11.63	0.0.0.15	Design Management	10			1	1	1	0 0	0	0
Finance Technical		9 1 6 1	.4	5 192.168.11.64 7 192.168.11.80	255.255.255.240 255.255.255.240	192.168.11.65 - 192.168.11.78 192.168.11.81 - 192.168.11.94	192.168.11.79 192.168.11.95	0.0.0.15	Finance Technical	9	1 1		1	1		0 0	0	0
Won Link		1		1 192.168.11.96	255.255.255.252	192.168.11.97 192.168.11.98	192.168.11.99			odd 1 for the r			1	-	4	0	-	-
Network ID:192.168.12	2.0/26																	
Location C																		
Department Sales	Hosts Require	d Host Available	Unused	Network Address 4 192.168.12.0	Mask 255.255.255.224	Range 192.168.12.1 - 192.168.12.30	Broadcast 192.168.12.31	Wildcard 0.0.0.31	Department Sales	Hosts Neede	6 128	6	1	32 1		8 4	0	0
Admin	1	5	6	1 192 168 12 32	255.255.255.248	192.168.12.33 - 192.168.12.38	192.168.12.39	0.0.0.7	Admin	- 20	1		1	1	1	1	0	0
Technical Management		3	6	2 192.168.12.40 3 192.168.12.48	255.255.255.248 255.255.255.248	192.168.12.41 - 192.168.12.46 192.168.12.49 - 192.168.12.54	192.168.12.55	0.0.0.7	Technical Management	4	1 1		1	1	1	1	í	0
Wan Link		1	2	1 192 168 12 56	255.255.255.252	192.168.12.57 - 192.168.12.58	192.168.10.59	0.0.0.3										
Network ID:192.168.13	3.0/25																	
Location D																+		
Department	Hosts Require	d Host Available	Unused	Network Address	Mask	Range	Broadcast	Wildcard		Hosts Neede		- 6	54	32 1		8 4	1	2
Sales Design	1	5 3 8 1	4	5 192.168.13.0 6 192.168.13.32	255.255.255.224 255.255.255.240	192.168.13.1 - 192.168.13.30 192.168.13.33 - 192.168.13.46	192.168.13.47	0.0.0.31	Sales Design	15 8	1 1		1	1	1	0 0	0	0
Finance Admin		7 1		7 192.168.13.48 1 192.168.13.64	255.255.255.240 255.255.255.248	192.168.13.49 - 192.168.13.62 192.168.13.65 - 192.168.13.70	192.168.13.63 192.168.13.71	0.0.0.15	Finance Admin	7	1 1		1	1		-		0
Technical		4	6	2 192.168.13.72 3 192.168.13.80	255.255.255.248 255.255.255.248	192.168.13.73 - 192.168.13.78	192.168.13.79 192.168.13.87	0.0.0.7	Technical	-	1	_	1	1	1	1 /		0
Management Wan Link		1		3 192.168.13.80 1 192.168.13.88	255.255.255.248 255.255.255.252	192.168.13.81 - 192.168.13.86 192.168.13.89 - 192.168.13.90	192.168.13.87 192.168.13.91		Management	3	1		1	-	4	-	4	U
Non-contribution	0.0/25								VLAN									
Network ID:192.168.20									Sales	10								
Ports A -> B & B -> A	Hosts Require	d Hosts Available		Network Address 0 192.168.20.0	Mask 255.255.255.252	Range 192.168.20.1 - 192.168.20.2	Broadcast 192.168.20.3	Wildcard 0.0.0.3	Finance Admin	20 30	0							
A->C&C->A		2	2	0 192.168.20.4	255.255.255.252	192.168.20.5 - 192.168.20.6	192.168.20.7	0.0.0.3	Technical	40	0							
A-> D & D-> A B-> C & C->B		2		0 192.168.20.8 0 192.168.20.12	255.255.255.252 255.255.255.252	192.168.20.9 - 192.168.20.10 192.168.20.13 - 192.168.20.14	192.168.20.11 192.168.20.15	0.0.0.3	Managemen Design	50 60								
B -> D & D -> B C -> D & D -> C	+	2	2	0 192.168.20.16 0 192.168.20.20	255.255.255.252 255.255.255.252	192.168.20.17 - 192.168.20.18 192.168.20.21 - 192.168.20.22	192.168.20.19 192.168.20.23	0.0.0.3										
A -> Server & Server ->	> A	2	2	0 192.168.20.24	255.255.255.252	192.168.20.25 - 192.168.20.26	192.168.20.27	0.0.0.3										
B -> Server & Server -> C -> Server & Server ->	> C	2	2	0 192.168.20.28 0 192.168.20.32	255.255.255.252 255.255.255.252	192.168.20.29 - 192.168.20.30 192.168.20.33 - 192.168.20.34	192.168.20.31 192.168.20.35	0.0.0.3										
D -> Server & Server -:	> D	2	2	0 192.168.20.36	255.255.255.252	192.168.20.37 - 192.168.20.38	192.168.20.39	0.0.0.3										
Network ID: 192.168.3	0.0/29																	
Department	Hosts Required	Available	Unused	Mask	Network Address	Range	Broadcast	Wildcard										
Server_Room		4	6	2 255.255.255.248	192.168.30.0	192.168.30.1 - 192.168.30.6	192.168.30.7	0.0.0.7										
Device Router A	Port Gig 0/0.10	IP Address 192.168.10.30	Subnet Mask 255.255.255.224	Default Gateway N/A	Links													
	Gig 0/0.20 Gig 0/0.30	192.168.10.46 192.168.10.54	255.255.255.240 255.255.255.248	N/A N/A														
	Gig 0/0.40	192.168.10.62	255.255.255.248	N/A		1												
	Gig 0/0.50 Gig 0/0	192.168.10.70 192.168.10.74	255.255.255.248 255.255.255.252	N/A N/A		1												
	S0/2/0 S0/2/1	192.168.20.1 192.168.20.9	255.255.255.252 255.255.255.252	N/A N/A	A -> B A -> D	1												
	S0/3/0	192.168.20.5	255.255.255.252	N/A	A -> C	1												
Router B	S0/3/1 Gig 0/0.20	192.168.20.25 192.168.11.78	255.255.255.252 255.255.255.240	N/A N/A	A -> Server													
	Gig 0/0.30 Gig 0/0.40	192.168.11.30 192.168.11.94	255.255.255.224 255.255.255.240	N/A N/A														
	Gig 0/0.50	192.168.11.62	255.255.255.240	N/A		1												
	Gig 0/0.60 Gig 0/0	192.168.11.46 192.168.11.98	255.255.255.240 255.255.255.252	N/A N/A														
	50/2/0	192.168.20.2	255.255.255.252 255.255.255.252	N/A N/A	B -> A B -> C	1												
	S0/2/1 S0/3/0	192.168.20.17	255.255.255.252	N/A	B -> D	1												
Router C	S0/3/1 Gig 0/0.10	192.168.20.29 192.168.12.30	255.255.255.252 255.255.255.224	N/A N/A	B -> Server	+												
	Gig 0/0.50 Gig 0/0.40	192.168.12.38 192.168.12.46	255.255.255.248 255.255.255.248	N/A N/A		1												
	Gig 0/0.50	192.168.12.54	255.255.255.248	N/A		1												
	Gig 0/0 S0/2/0	192.168.12.58 192.168.20.21	255.255.255.252 255.255.255.252	N/A N/A	C -> D	1												
	S0/2/1	192.168.20.14 192.168.20.6	255.255.255.252	N/A	C -> B C -> A	1												
Router D	S0/3/0 S0/3/1	192.168.20.33	255.255.255.252 255.255.255.252	N/A N/A	C -> A C -> Server	1												
	Gig 0/0.10 Gig 0/0.20	192.168.13.30 192.168.13.62	255.255.255.224 255.255.255.240	N/A N/A		+												
	Gig 0/0.30	192.168.13.70	255.255.255.240	N/A		1												
	Gig 0/0.40 Gig 0/0.50	192.168.13.78 192.168.13.86	255.255.255.248 255.255.255.248	N/A N/A														
	Gig 0/0.60 Gig 0/0	192.168.13.46 192.168.13.90	255.255.255.248 255.255.255.252	N/A N/A		+												
	50/2/0	192.168.20.22	255.255.255.252	N/A	D-> C	1												
	50/2/1	192.168.20.10 192.168.20.18	255.255.255.252 255.255.255.252	N/A N/A	D -> A D -> B	+												
	50/3/0		LJJILJJILJJILJE															
Router Server	50/3/0 50/3/1	192.168.20.37	255.255.255.252	N/A	D -> Server													
Router Server	50/3/0		255.255.255.252 255.255.255.252 255.255.															