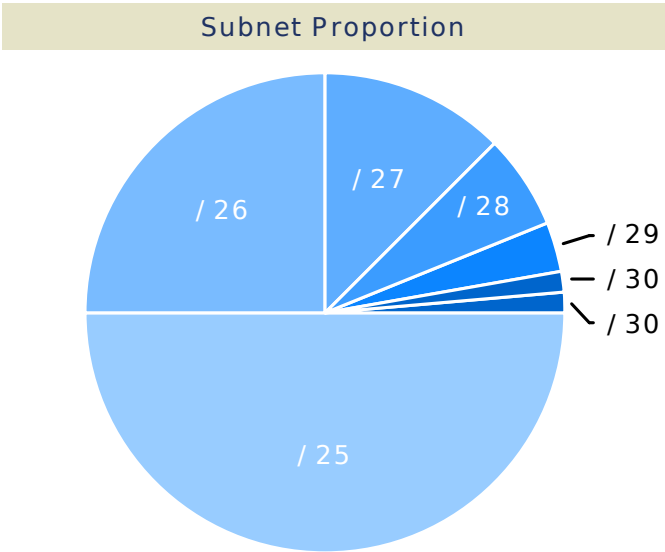


Subnets			
CIDR	Subnet Mask	Addresses	Wildcard
/ 32	255.255.255.255	1	0.0.0.0
/ 31	255.255.255.254	2	0.0.0.1
/ 30	255.255.255.252	4	0.0.0.3
/ 29	255.255.255.248	8	0.0.0.7
/ 28	255.255.255.240	16	0.0.0.15
/ 27	255.255.255.224	32	0.0.0.31
/ 26	255.255.255.192	64	0.0.0.63
/ 25	255.255.255.128	128	0.0.0.127
/ 24	255.255.255.0	256	0.0.0.255
/ 23	255.255.254.0	512	0.0.1.255
/ 22	255.255.252.0	1,024	0.0.3.255
/ 21	255.255.248.0	2,048	0.0.7.255
/ 20	255.255.240.0	4,096	0.0.15.255
/ 19	255.255.224.0	8,192	0.0.31.255
/ 18	255.255.192.0	16,384	0.0.63.255
/ 17	255.255.128.0	32,768	0.0.127.255
/ 16	255.255.0.0	65,536	0.0.255.255
/ 15	255.254.0.0	131,072	0.1.255.255
/ 14	255.252.0.0	262,144	0.3.255.255
/ 13	255.248.0.0	524,288	0.7.255.255
/ 12	255.240.0.0	1,048,576	0.15.255.255
/ 11	255.224.0.0	2,097,152	0.31.255.255
/ 10	255.192.0.0	4,194,304	0.63.255.255
/ 9	255.128.0.0	8,388,608	0.127.255.255
/ 8	255.0.0.0	16,777,216	0.255.255.255
/ 7	254.0.0.0	33,554,432	1.255.255.255
/ 6	252.0.0.0	67,108,864	3.255.255.255
/ 5	248.0.0.0	134,217,728	7.255.255.255
/ 4	240.0.0.0	268,435,456	15.255.255.255
/ 3	224.0.0.0	536,870,912	31.255.255.255
/ 2	192.0.0.0	1,073,741,824	63.255.255.255
/ 1	128.0.0.0	2,147,483,648	127.255.255.255
/ 0	0.0.0.0	4,294,967,296	255.255.255.255

Decimal to Binary							
Subnet Mask				Wildcard			
255	1111	1111		0	0000	0000	
254	1111	1110		1	0000	0001	
252	1111	1100		3	0000	0011	
248	1111	1000		7	0000	0111	
240	1111	0000		15	0000	1111	
224	1110	0000		31	0001	1111	
192	1100	0000		63	0011	1111	
128	1000	0000		127	0111	1111	
0	0000	0000		255	1111	1111	



Classful Ranges	
A	0.0.0.0 - 127.255.255.255
B	128.0.0.0 - 191.255.255.255
C	192.0.0.0 - 223.255.255.255
D	224.0.0.0 - 239.255.255.255
E	240.0.0.0 - 255.255.255.255

Reserved Ranges	
RFC 1918	10.0.0.0 - 10.255.255.255
Localhost	127.0.0.0 - 127.255.255.255
RFC 1918	172.16.0.0 - 172.31.255.255
RFC 1918	192.168.0.0 - 192.168.255.255

Terminology	
CIDR Classless interdomain routing was developed to provide more granularity than legacy classful addressing; CIDR notation is expressed as /XX	VLSM Variable-length subnet masks are an arbitrary length between 0 and 32 bits; CIDR relies on VLSMs to define routes