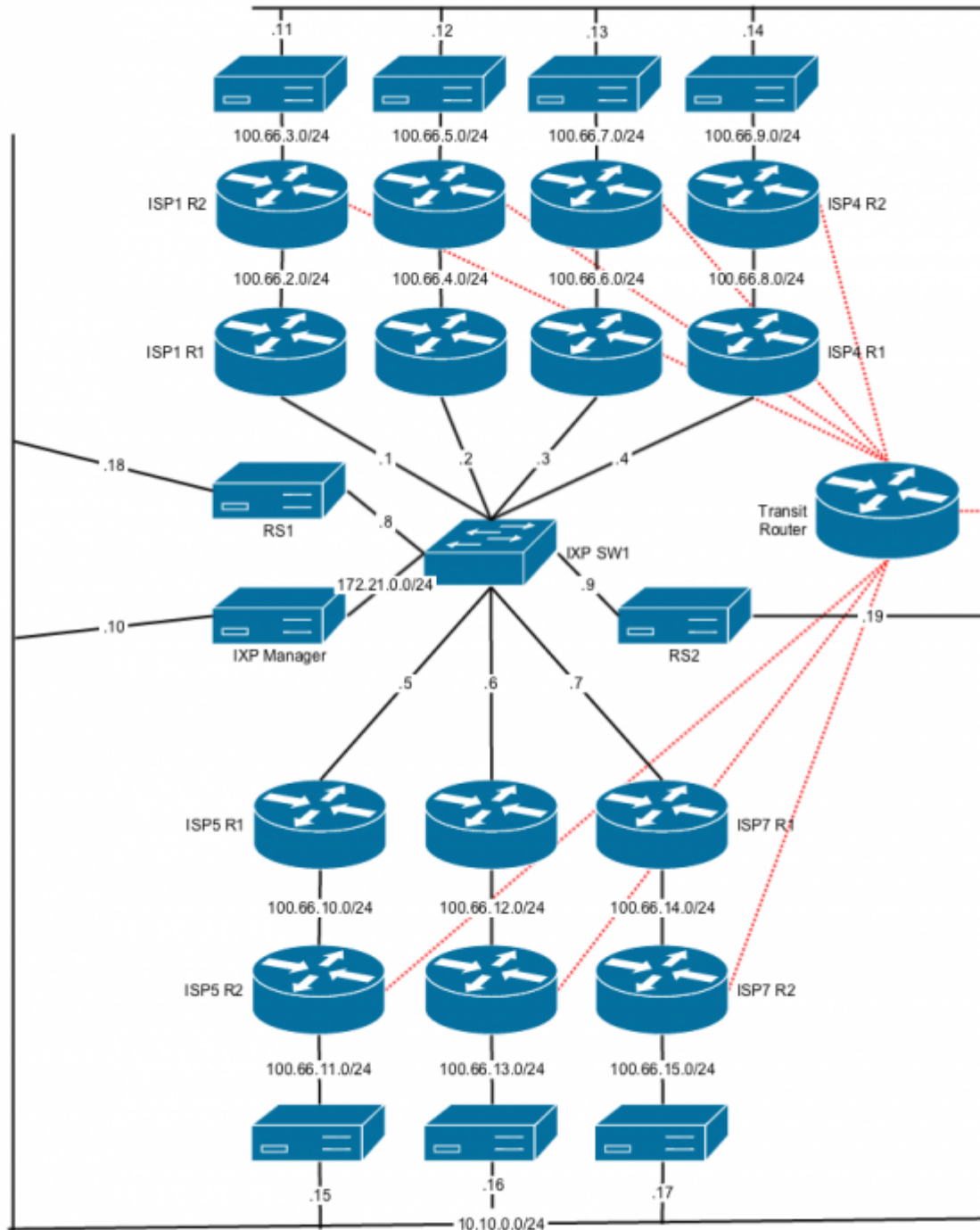


ADDRESSING SCHEME



IP Addresses

IXP 1

ISP	Assigned IPv4 Block	Assigned IPv6 Block	AS Number
ISP 1	100.66.2.0/23	fd90:100:66:20::/60	64011
ISP 2	100.66.4.0/23	fd90:100:66:40::/60	64012
ISP 3	100.66.6.0/23	fd90:100:66:60::/60	64013
ISP 4	100.66.8.0/23	fd90:100:66:80::/60	64014
ISP 5	100.66.10.0/23	fd90:100:66:100::/60	64015
ISP 6	100.66.12.0/23	fd90:100:66:120::/60	64016
ISP 7	100.66.14.0/23	fd90:100:66:140::/60	64017

IXP 2

ISP	Assigned IPv4 Block	Assigned IPv6 Block	AS Number
ISP 1	100.66.18.0/23	fd90:100:66:180::/60	64021
ISP 2	100.66.20.0/23	fd90:100:66:200::/60	64022
ISP 3	100.66.22.0/23	fd90:100:66:220::/60	64023
ISP 4	100.66.24.0/23	fd90:100:66:240::/60	64024
ISP 5	100.66.26.0/23	fd90:100:66:260::/60	64025
ISP 6	100.66.28.0/23	fd90:100:66:280::/60	64026
ISP 7	100.66.30.0/23	fd90:100:66:300::/60	64027

Customer Blocks

Description	Address/Prefix
ISP1 - IXP1 Customer	100.66.48.0/26
ISP2 - IXP1 Customer	100.66.49.0/26
ISP3 - IXP1 Customer	100.66.50.0/26
ISP4 - IXP1 Customer	100.66.51.0/26
ISP5 - IXP1 Customer	100.66.52.0/26
ISP6 - IXP1 Customer	100.66.53.0/26
ISP7 - IXP1 Customer	100.66.54.0/26
ISP1 - IXP2 Customer	100.66.56.0/26
ISP2 - IXP2 Customer	100.66.57.0/26
ISP3 - IXP2 Customer	100.66.58.0/26
ISP4 - IXP2 Customer	100.66.59.0/26
ISP5 - IXP2 Customer	100.66.60.0/26
ISP6 - IXP2 Customer	100.66.61.0/26
ISP7 - IXP2 Customer	100.66.62.0/26

IPv4 Netmask Table

Subnet Mask	Wild-Card Mask	Network Bits	Host Bits	Prefix
0.0.3		0.0	255.255.255.255	0
128.0.0.0	127.255.255.255	1	31	/1
192.0.0.0	63.255.255.255	2	30	/2

224.0.0.0	31.255.255.255	3	29	/3
240.0.0.0	15.255.255.255	4	28	/4
248.0.0.0	7.255.255.255	5	27	/5
252.0.0.0	3.255.255.255	6	26	/6
254.0.0.0	1.255.255.255	7	25	/7
255.0.0.0	0.255.255.255	8	24	/8
255.128.0.0	0.127.255.255	9	23	/9
255.192.0.0	0.63.255.255	10	22	/10
255.224.0.0	0.31.255.255	11	21	/11
255.240.0.0	0.15.255.255	12	20	/12
255.248.0.0	0.7.255.255	13	19	/13
255.252.0.0	0.3.255.255	14	18	/14
255.254.0.0	0.1.255.255	15	17	/15
255.255.0.0	0.0.255.255	16	16	/16
255.255.128.0	0.0.127.255	17	15	/17
255.255.192.0	0.0.63.255	18	14	/18
255.255.224.0	0.0.31.255	19	13	/19
255.255.240.0	0.0.15.255	20	12	/20
255.255.248.0	0.0.7.255	21	11	/21
255.255.252.0	0.0.3.255	22	10	/22
255.255.254.0	0.0.1.255	23	9	/23
255.255.255.0	0.0.0.255	24	8	/24
255.255.255.128	0.0.0.127	25	7	/25
255.255.255.192	0.0.0.63	26	6	/26
255.255.255.224	0.0.0.31	27	5	/27
255.255.255.240	0.0.0.15	28	4	/28
255.255.255.248	0.0.0.7	29	3	/29
255.255.255.252	0.0.0.3	30	2	/30
255.255.255.254	0.0.0.1	31	1	/31
255.255.255.255	0.0.0.0	32	0	/32

Glossary

Subnet Mask: The subnet mask of the CIDR block.
 Wild-Card Mask: Wild-Card Mask used in OSPF and packet filters
 Network Bits: The number of bits in the network part of the mask
 Host Bits: The number of bits in the host part of the mask
 Prefix: Short hand syntax of the CIDR block

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