

# Internal IP Address Plan

## Autonomous systems

AS65534	AS-PRG
AS65533	AS-BRQ
AS65532	AS-B48
AS65531	AS-B48-2

## Internal ASNs and connect prefixes

AS4294967294	[MAX INTERNAL ASN]	
AS42**-----	Location	
00	Prague	
01	Brno	
AS42--***---	Rack	
000	PRG-R-4-7	
001	PRG-R-14-7	
AS42-----***	Node / switch #	
	[000-899 nodes]	
	[900-999 switches]	
AS4200001900	MAI-PRG-R-4-7-EDGE1	172.16.248.0/24
2a03:3b40:42:128::/64		
AS4200000901	MAI-PRG-R-4-7-1	172.16.253.0/24
2a03:3b40:42:0::/64		
AS4200000902	MAI-PRG-R-4-7-2	172.16.252.0/24
2a03:3b40:42:1::/64		
AS4200001900	MAI-PRG-R-14-7-EDGE2	172.16.249.0/24
2a03:3b40:42:129::/64		
AS4200001901	MAI-PRG-R-14-7-1	172.16.251.0/24
2a03:3b40:42:2::/64		
AS4200001902	MAI-PRG-R-14-7-2	172.16.250.0/24
2a03:3b40:42:2::/64		
AS4200001001	node1.stg	
AS4200001002	node2.stg	
??4201000900	MAI-BRQ-R-????-1	172.19.253.0/24
2a03:3b40:42:2::/64???		
??4201000901	MAI-BRQ-R-????-2	172.19.252.0/24
2a03:3b40:42:2::/64???		
??4201000001	node?.brq	

= [MAI - PRG - R-4-7-1] =====  
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Port	Interface	Peer-ASN	Target	IPv4
10G 07	2a03:3b40:42:0:07::1/80	4200000007	node2.prg	172.16.253.25/30
10G 08	2a03:3b40:42:0:08::1/80	4200000008	node7.prg	172.16.253.29/30
10G 09	2a03:3b40:42:0:09::1/80	4200000009	node4.prg	172.16.253.33/30
10G 10	2a03:3b40:42:0:10::1/80	4200000010	node1.pgnd	172.16.253.37/30
10G 11	2a03:3b40:42:0:11::1/80	4200000011	node1.prg	172.16.253.41/30
10G 12	2a03:3b40:42:0:12::1/80	4200000012	node8.prg	172.16.253.45/30
10G 13	2a03:3b40:42:0:13::1/80	4200000013	node3.prg	172.16.253.49/30
10G 14	2a03:3b40:42:0:14::1/80	4200000014	node13.prg	172.16.253.53/30
10G 15	2a03:3b40:42:0:15::1/80	4200000015	node12.prg	172.16.253.57/30
10G 16	2a03:3b40:42:0:16::1/80	4200000016	node10.prg	172.16.253.61/30
10G 17	2a03:3b40:42:0:17::1/80	4200000017	node9.prg	172.16.253.65/30
10G 18	2a03:3b40:42:0:18::1/80	4200000018	node5.prg	172.16.253.69/30
10G 19	2a03:3b40:42:0:19::1/80	4200000019	node6.prg	172.16.253.73/30
10G 20	2a03:3b40:42:0:20::1/80	4200000020	node11.prg	172.16.253.77/30
10G 21	2a03:3b40:42:0:21::1/80	4200000021	node14.prg	172.16.253.81/30
40G 49	2a03:3b40:42:0:49::1/80	4200000902	MAI-PRG-R-4-7-2	Port 40G 49 172.16.253.193/30
40G 51	2a03:3b40:42:0:51::1/80	4200001901	MAI-PRG-R-14-7-1	Port 40G 51 172.16.253.201/30
40G 53	2a03:3b40:42:0:53::1/80	4200001902	MAI-PRG-R-14-7-2	Port 40G 53 172.16.253.209/30

= [MAI - PRG - R-4-7-2] =====  
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Port	Interface	Peer-ASN	Target	IPv4
10G 07	2a03:3b40:42:1:07::1/80	4200000007	node2.prg	172.16.252.25/30

Port 10G 08	4200000008	<-> node7.prg	172.16.252.29/30
2a03:3b40:42:1:08::1/80			
Port 10G 09	4200000009	<-> node4.prg	172.16.252.33/30
2a03:3b40:42:1:09::1/80			
Port 10G 10	4200000010	<-> node1.pgnd	172.16.252.37/30
2a03:3b40:42:1:10::1/80			
Port 10G 11	4200000011	<-> node1.prg	172.16.252.41/30
2a03:3b40:42:1:11::1/80			
Port 10G 12	4200000012	<-> node8.prg	172.16.252.45/30
2a03:3b40:42:1:12::1/80			
Port 10G 13	4200000013	<-> node3.prg	172.16.252.49/30
2a03:3b40:42:1:13::1/80			
Port 10G 14	4200000014	<-> node13.prg	172.16.252.53/30
2a03:3b40:42:1:14::1/80			
Port 10G 15	4200000015	<-> node12.prg	172.16.252.57/30
2a03:3b40:42:1:15::1/80			
Port 10G 16	4200000016	<-> node10.prg	172.16.252.61/30
2a03:3b40:42:1:16::1/80			
Port 10G 17	4200000017	<-> node9.prg	172.16.252.65/30
2a03:3b40:42:1:17::1/80			
Port 10G 18	4200000018	<-> node5.prg	172.16.252.69/30
2a03:3b40:42:1:18::1/80			
Port 10G 19	4200000019	<-> node6.prg	172.16.252.73/30
2a03:3b40:42:1:19::1/80			
Port 10G 20	4200000020	<-> node11.prg	172.16.252.77/30
2a03:3b40:42:1:20::1/80			
Port 10G 21	4200000021	<-> node14.prg	172.16.252.81/30
2a03:3b40:42:1:21::1/80			
Port 40G 49	4200000901	<-> MAI-PRG-R-4-7-1	Port 40G 49
172.16.253.194/30 2a03:3b40:42:0:49::2/80			
Port 40G 51	4200001902	<-> MAI-PRG-R-14-7-2	Port 40G 51
172.16.252.201/30 2a03:3b40:42:1:51::1/80			
Port 40G 53	4200001901	<-> MAI-PRG-R-14-7-1	Port 40G 53
172.16.252.209/30 2a03:3b40:42:1:53::1/80			

= [MAI-PRG-R-14-7-1] =====  
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-- INTERFACE --	PEER-ASN	TARGET	IPv4
----- IPv6 -----			
Port 10G 01	4200001001	<-> node1.stg	172.16.251.1/30
2a03:3b40:42:2:01::1/80			
Port 10G 02	4200001002	<-> node2.stg	172.16.251.5/30
2a03:3b40:42:2:02::1/80			
Port 10G 03	4200001003	<-> node18.prg	172.16.251.9/30
2a03:3b40:42:2:03::1/80			
Port 10G 04	4200001004	<-> node17.prg	172.16.251.13/30
2a03:3b40:42:2:04::1/80			
Port 10G 05	4200001005	<-> node15.prg	172.16.251.17/30
2a03:3b40:42:2:05::1/80			

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Port 10G 06 4200001006 <-> build.prg 172.16.251.21/30
2a03:3b40:42:2:06::1/80
Port 10G 07 4200001007 <-> nasbox.prg 172.16.251.25/30
2a03:3b40:42:2:07::1/80
Port 10G 08 4200001008 <-> node3.stg 172.16.251.29/30
2a03:3b40:42:2:08::1/80
Port 10G 09 4200001009 <-> node4.stg 172.16.251.33/30
2a03:3b40:42:2:09::1/80
Port 10G 46 4200001046 <-> backuper.prg
172.16.251.181/30 2a03:3b40:42:2:46::1/80
Port 10G 48 65534 <-> edgertr1.prg
172.16.251.189/30 2a03:3b40:42:2:48::1/80
Port 40G 49 4200001902 <-> MAI-PRG-R-14-7-2 Port 40G 49
172.16.251.197/30 2a03:3b40:42:2:49::1/80
Port 40G 51 4200000901 <-> MAI-PRG-R-4-7-1 Port 40G 51
172.16.253.202/30 2a03:3b40:42:0:51::2/80
Port 40G 53 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 53
172.16.252.210/30 2a03:3b40:42:1:53::2/80

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=[MAI-PRG-
R-14-7-2]=====
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-- INTERFACE -- PEER-ASN ----- TARGET ----- IPv4 -----
----- IPv6 -----
Port 10G 01 4200001001 <-> node1.stg 172.16.250.1/30
2a03:3b40:42:3:01::1/80
Port 10G 02 4200001002 <-> node2.stg 172.16.250.5/30
2a03:3b40:42:3:02::1/80
Port 10G 03 4200001003 <-> node18.prg 172.16.250.9/30
2a03:3b40:42:3:03::1/80
Port 10G 04 4200001004 <-> node17.prg 172.16.250.13/30
2a03:3b40:42:3:04::1/80
Port 10G 05 4200001005 <-> node15.prg 172.16.250.17/30
2a03:3b40:42:3:05::1/80
Port 10G 06 4200001006 <-> build.prg 172.16.250.21/30
2a03:3b40:42:3:06::1/80
Port 10G 07 4200001007 <-> nasbox.prg 172.16.250.25/30
2a03:3b40:42:3:07::1/80
Port 10G 08 4200001008 <-> node3.stg 172.16.250.29/30
2a03:3b40:42:3:08::1/80
Port 10G 09 4200001009 <-> node4.stg 172.16.250.33/30
2a03:3b40:42:3:09::1/80
Port 10G 46 4200001046 <-> backuper.prg
172.16.250.181/30 2a03:3b40:42:3:46::1/80
Port 10G 48 65534 <-> edgertr2.prg
172.16.250.189/30 2a03:3b40:42:3:48::1/80
Port 40G 49 4200001901 <-> MAI-PRG-R-14-7-2 Port 40G 49
172.16.251.198/30 2a03:3b40:42:2:49::2/80
Port 40G 51 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 51
172.16.252.202/30 2a03:3b40:42:1:51::2/80

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Port 40G 53 4200000901 <-> MAI-PRG-R-4-7-1 Port 40G 53  
172.16.253.210/30 2a03:3b40:42:0:53::2/80

### IP Summary

GLOBAL ALLOCATION: 172.16.0.0 - 172.31.255.255

- 172.16.0.0 - 172.16.255.255 VPSFREE-PRG
- 172.17.0.0 - 172.17.255.255 BASE48-BRQ
- 172.18.0.0 - 172.30.255.255 [RESERVED-LEGACY]
- 172.19.0.0 - 172.19.255.255 VPSFREE-BRQ
- 172.20.0.0 - 172.30.255.255 [UNALLOCATED]
- 172.31.0.0 - 172.31.255.255 MNT-SUBNET

### VPSFREE-PRG

**Allocation:**

172.16.0.0/16 VPSFREE-PRG

**Assignments:**

NETWORK	ALLOCATION NAME	VLAN #
=====	=====	=====
====		
172.16.0.0/23	VPSFREE-PRG-PROD	200
172.16.2.0/23	VPSFREE-PRG-PGND	210
172.16.4.0/23	VPSFREE-PRG-STG-INT	BGP
172.16.8.0/21	VPSFREE-PRG-PROD-INT	200
172.16.100.0/24	VPSFREE-PRG-LEGACY	100
172.16.101.0/24	VPSFREE-PRG-MGMT	101
172.16.103.0/24	VPSFREE-PRG-SWITCHES	103
172.16.107.0/24	VPSFREE-PRG-VPN	220
172.16.107.0/24	VPSFREE-PRG-VPN	220

### BASE48-BRQ

**Allocation:**

172.17.0.0/16 BASE48-BRQ

**Assignments:**

NETWORK	ALLOCATION NAME	VLAN #
=====		
===		
172.17.0.0/24	BASE48-MGMT	100
-dhcp-	BASE48-UPC	200
172.17.1.0/24	BASE48-LAN	201
172.17.2.0/24	BASE48-WLAN	202
172.17.3.0/24	BASE48-IOT	203
172.17.4.0/23	BASE48-RACKBASE	300
172.17.6.0/23	BASE48-RACKVPSF	301

## VPSFREE-BRQ

### Allocation:

172.19.0.0/16	VPSFREE-BRQ
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### Assignments:

NETWORK	ALLOCATION NAME	VLAN #
=====		
===		
172.19.0.0/23	VPSFREE-PRG-PROD	---
172.19.8.0/21	VPSFREE-BRQ-PROD-INT	---
172.19.101.0/24	VPSFREE-PRG-MGMT	101

## MNT-SUBNET

### Allocation:

172.31.0.0/16	MNT-SUBNET
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### Assignments:

NETWORK	ALLOCATION NAME	COMMENT
=====		
===		
172.31.0.0/24	PEERING	IPSec /30 tunnels
172.31.0.0/30	PEER-PRG-BRQ-1-1	edge-rtr1.prg <-> edge-rtr1.brq
172.31.0.4/30	PEER-PRG-BRQ-1-2	edge-rtr1.prg <-> edge-rtr2.brq
172.31.0.8/30	PEER-PRG-BRQ-2-1	edge-rtr2.prg <-> edge-rtr1.brq
172.31.0.12/30	PEER-PRG-BRQ-2-2	edge-rtr2.prg <-> edge-rtr2.brq
172.31.0.16/30	PEER-PRG-B48-1-1	edge-rtr1.prg <-> edge-rtr1.b48
172.31.0.20/30	PEER-PRG-B48-2-1	edge-rtr2.prg <-> edge-rtr1.b48

172.31.0.24/30	PEER-PRG-B48-2-1-1	edge-rtr1.prg <->	edge-rtr1.b48-2
172.31.0.28/30	PEER-PRG-B48-2-2-1	edge-rtr2.prg <->	edge-rtr1.b48-2

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