

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]

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

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]=====
=====

```

```
-- INTERFACE --- PEER-ASN ----- TARGET ----- IPv4 -----  
----- IPv6 -----  
Port 10G 01 4200000001 <-> node1.stg 172.16.253.1/30  
2a03:3b40:42:0:01::1/80  
Port 10G 02 4200000002 <-> node2.stg 172.16.253.5/30  
2a03:3b40:42:0:02::1/80  
Port 10G 03 4200000003 <-> node17.prg 172.16.253.9/30  
2a03:3b40:42:0:03::1/80  
Port 10G 04 4200000004 <-> node18.prg 172.16.253.13/30  
2a03:3b40:42:0:04::1/80  
Port 40G 49 4200000902 <-> MAI-PRG-R-4-7-2 Port 40G 49  
172.16.253.193/30 2a03:3b40:42:0:49::1/80  
Port 40G 51 4200001901 <-> MAI-PRG-R-14-7-1 Port 40G 51  
172.16.253.201/30 2a03:3b40:42:0:51::1/80  
Port 40G 53 4200001902 <-> MAI-PRG-R-14-7-2 Port 40G 53  
172.16.253.209/30 2a03:3b40:42:0:53::1/80
```

```
= [MAI-PRG-R-4-7-2] =====  
=====
```

```
-- INTERFACE --- PEER-ASN ----- TARGET ----- IPv4 -----  
----- IPv6 -----  
Port 10G 01 4200000001 <-> node1.stg 172.16.252.1/30  
2a03:3b40:42:1:01::1/80  
Port 10G 02 4200000002 <-> node2.stg 172.16.252.5/30  
2a03:3b40:42:1:02::1/80  
Port 10G 03 4200000003 <-> node17.prg 172.16.252.9/30  
2a03:3b40:42:1:03::1/80  
Port 10G 04 4200000004 <-> node18.prg 172.16.252.13/30  
2a03:3b40:42:1:04::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] =====  
=====
```

```
-- 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 <-> node17.prg 172.16.251.9/30  
2a03:3b40:42:2:03::1/80  
Port 10G 04 4200001004 <-> node18.prg 172.16.251.13/30
```

```

2a03:3b40:42:2:04::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

```

```

=[MAI-PRG-
R-14-7-2]=====
=====

```

```

--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 <-> node17.prg 172.16.250.9/30
2a03:3b40:42:3:03::1/80
Port 10G 04 4200001004 <-> node18.prg 172.16.250.13/30
2a03:3b40:42:3:04::1/80
Port 10G 48 65534 <-> edgertr1.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
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
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Assignments:

NETWORK	ALLOCATION NAME	VLAN #
=====	=====	=====
===		
172.16.0.0/23	VPSFREE - PRG - PROD	200
172.16.2.0/23	VPSFREE - PRG - PGND	210
172.16.8.0/21	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
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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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