Netzname	Anzahl der Rechner	IP-Netzadresse	Subnetzmaske	erste verwendbare IP-Adresse	letzte verwendbare IP-Adresse	Broadcastadresse
SW-Aachen 1	20000 -> 32766	90.96.0.0	255.255.128.0, /17	90.96.0.1	90.96.127.254	90.96.127.255
SW-Stockholm 1	14000 -> 16382	90.96.128.0	255.255.192.0, /18	90.96.128.1	90.96.191.254	90.96.191.255
SW-Aachen 2	3650 -> 4094	90.96.192.0	255.255.240.0, /20	90.96.192.1	90.96.207.254	90.96.207.255
SW-Amsterdam	2800 -> 4094	90.96.208.0	255.255.240.0, /20	90.96.208.1	90.96.223.254	90.96.223.255
SW-Aachen 3/4	1000+1250 -> 4094	90.96.224.0	255.255.240.0, /20	90.96.224.1	90.96.239.254	90.96.239.255
SW-Stockholm 2	2000 -> 2046	90.96.240.0	255.255.248.0, /21	90.96.240.1	90.96.247.254	90.96.247.255
SW-Madrid	1500 -> 2046	90.96.248.0	255.255.248.0, /21	90.96.248.1	90.96.255.254	90.96.255.255
SW-Aachen 5	1000 -> 1022	90.97.0.0	255.255.252.0, /22	90.97.0.1	90.97.3.254	90.97.3.255
SW-Aachen 7	600 -> 1022	90.97.4.0	255.255.252.0, /22	90.97.4.1	90.97.7.254	90.97.7.255
SW-Moskau 1	200 -> 254	90.97.8.0	255.255.255.0, /24	90.97.8.1	90.97.8.254	90.97.8.255
SW-Moskau 2	150 -> 254	90.97.9.0	255.255.255.0, /24	90.97.9.1	90.97.9.254	90.97.9.255
SW-Aachen 6	50 -> 62	90.97.10.0	255.255.255.192, /26	90.97.10.1	90.97.10.62	90.97.10.63
VN1	2 -> 2	90.97.10.64	255.255.255.252, /30	90.97.10.65	90.97.10.66	90.97.10.67
VN2	2 -> 2	90.97.10.68	255.255.255.252, /30	90.97.10.69	90.97.10.70	90.97.10.71
VN3	2 -> 2	90.97.10.72	255.255.255.252, /30	90.97.10.73	90.97.10.74	90.97.10.75
VN4	2 -> 2	90.97.10.76	255.255.255.252, /30	90.97.10.77	90.97.10.78	90.97.10.79
VN5	2 -> 2	90.97.10.80	255.255.255.252, /30	90.97.10.81	90.97.10.82	90.97.10.83
VN6	2 -> 2	90.97.10.84	255.255.255.252, /30	90.97.10.85	90.97.10.86	90.97.10.87
VN7	2 -> 2	90.97.10.88	255.255.255.252, /30	90.97.10.89	90.97.10.90	90.97.10.91
VN8	2 -> 2	90.97.10.92	255.255.255.252, /30	90.97.10.93	90.97.10.94	90.97.10.95
VN9	2 -> 2	90.97.10.96	255.255.255.252, /30	90.97.10.97	90.97.10.98	90.97.10.99

> Vorgegebene IP: 90.96.0.0/12

Netzname	Subnetzmaske	IP-Netzadresse
Vorgegeben	11111111.1111**0000**.**00000000**.**00000000**	01011010.0110**0000**.**00000000**.**00000000**
SW-Aachen 1	11111111.1111**1111.1**0000000.00000000	01011010.0110**0000.0**0000000.00000000
SW-Stockholm 1	11111111.1111**1111.11**000000.00000000	01011010.0110**0000.10**000000.00000000
SW-Aachen 2	11111111.1111**1111.1111**0000.00000000	01011010.0110**0000.1100**0000.00000000
SW-Amsterdam	11111111.1111**1111.1111**0000.00000000	01011010.0110**0000.1101**0000.00000000
SW-Aachen 3/4	11111111.1111**1111.1111**0000.00000000	01011010.0110**0000.1110**0000.00000000
SW-Stockholm 2	11111111.1111**1111.11111**000.00000000	01011010.0110**0000.11110**000.00000000
SW-Madrid	11111111.1111**1111.11111**000.00000000	01011010.0110**0000.11111**000.00000000
SW-Aachen 5	11111111.1111**1111.111111**00.00000000	01011010.0110**0001.000000**00.00000000
SW-Aachen 7	11111111.1111**1111.111111**00.00000000	01011010.0110**0001.000001**00.00000000
SW-Moskau 1	11111111.1111**1111.11111111**.00000000	01011010.0110**0001.00001000**.00000000

Netzname	Subnetzmaske	IP-Netzadresse
SW-Moskau 2	11111111.11111111.11111111.00000000	01011010.01100001.00001001.00000000
SW-Aachen 6	11111111.11111111.11111111.11000000	01011010.01100001.00001010.00000000
VN1	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01000000
VN2	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01000100
VN3	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01001000
VN4	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01001100
VN5	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01010000
VN6	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01010100
VN7	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01011000
VN8	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01011100
VN9	11111111.11111111.11111111.11111100	01011010.01100001.00001010.01100000

> grau: vorgegebener Netzanteil
> rot: spezialisierter Netzanteil
> grün: Hostanteil

	SW-AC1	SW-ST1	SW-AC2	SW-AM	SW-AC3/4	SW-ST2	SW-MA	SW-AC5	SW-AC7	SW-MO1	SW-MO2	SW-AC6	VN1	VN2	VN3	VN4	VN5	VN6	VN7	VN8	VN9	MO-INT-PRV
Aachen Nord	0	2	0	2	0	2	1	1	1	3	3	1	0	0	1	1	1	1	2	2	2	3
Aachen Sued	1	2	1	1	0	2	2	0	0	2	2	0	1	0	0	0	1	2	1	1	2	2
Madrid	1	1	1	2	1	1	0	2	2	2	2	2	0	1	0	2	0	0	1	2	1	2
Amsterdam	2	1	2	0	1	1	2	1	1	1	1	1	2	1	1	0	0	1	0	0	1	1
Stockholm	2	0	2	1	2	0	1	2	2	1	1	2	1	2	1	1	1	0	0	1	0	1
Moskau	3	1	3	1	2	1	2	2	2	0	0	2	2	2	2	1	1	1	1	0	0	1
INT-PRV	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0

> RIP Metriktabelle in Hops

```
RIP: sending  v2 update to 224.0.0.9 via FastEthernet0/0 (90.96.248.1)
RIP: build update entries
      90.96.0.0/17 via 0.0.0.0, metric 2, tag 0
      90.96.128.0/18 via 0.0.0.0, metric 2, tag 0
      90.96.192.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.208.0/20 via 0.0.0.0, metric 3, tag 0
      90.96.224.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.240.0/21 via 0.0.0.0, metric 2, tag 0
      90.97.0.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.4.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.8.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.9.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.10.0/26 via 0.0.0.0, metric 3, tag 0
      90.97.10.64/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.68/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.72/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.76/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.80/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.84/30 via 0.0.0.0, metric 1, tag 0
```

```
      90.97.10.88/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.92/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.96/30 via 0.0.0.0, metric 2, tag 0
      100.0.0.0/8 via 0.0.0.0, metric 3, tag 0
RIP: sending  v2 update to 224.0.0.9 via Serial1/0 (90.97.10.81)
RIP: build update entries
      90.96.0.0/17 via 0.0.0.0, metric 2, tag 0
      90.96.128.0/18 via 0.0.0.0, metric 2, tag 0
      90.96.192.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.208.0/20 via 0.0.0.0, metric 3, tag 0
      90.96.224.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.240.0/21 via 0.0.0.0, metric 2, tag 0
      90.96.248.0/21 via 0.0.0.0, metric 1, tag 0
      90.97.0.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.4.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.8.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.9.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.10.0/26 via 0.0.0.0, metric 3, tag 0
      90.97.10.64/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.68/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.72/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.76/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.84/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.88/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.92/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.96/30 via 0.0.0.0, metric 2, tag 0
      100.0.0.0/8 via 0.0.0.0, metric 3, tag 0
RIP: sending  v2 update to 224.0.0.9 via Serial0/1 (90.97.10.85)
RIP: build update entries
      90.96.0.0/17 via 0.0.0.0, metric 2, tag 0
      90.96.192.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.224.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.248.0/21 via 0.0.0.0, metric 1, tag 0
      90.97.0.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.4.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.10.0/26 via 0.0.0.0, metric 3, tag 0
      90.97.10.64/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.68/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.72/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.80/30 via 0.0.0.0, metric 1, tag 0
RIP: sending  v2 update to 224.0.0.9 via Serial0/0 (90.97.10.66)
RIP: build update entries
      90.96.128.0/18 via 0.0.0.0, metric 2, tag 0
      90.96.208.0/20 via 0.0.0.0, metric 3, tag 0
      90.96.240.0/21 via 0.0.0.0, metric 2, tag 0
      90.96.248.0/21 via 0.0.0.0, metric 1, tag 0
      90.97.8.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.9.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.10.72/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.80/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.84/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.88/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.92/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.96/30 via 0.0.0.0, metric 2, tag 0
      100.0.0.0/8 via 0.0.0.0, metric 3, tag 0
```

```
RIP: sending  v2 update to 224.0.0.9 via Serial1/1 (90.97.10.73)
RIP: build update entries
      90.96.0.0/17 via 0.0.0.0, metric 2, tag 0
      90.96.128.0/18 via 0.0.0.0, metric 2, tag 0
      90.96.192.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.208.0/20 via 0.0.0.0, metric 3, tag 0
      90.96.224.0/20 via 0.0.0.0, metric 2, tag 0
      90.96.240.0/21 via 0.0.0.0, metric 2, tag 0
      90.96.248.0/21 via 0.0.0.0, metric 1, tag 0
      90.97.0.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.4.0/22 via 0.0.0.0, metric 3, tag 0
      90.97.8.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.9.0/24 via 0.0.0.0, metric 3, tag 0
      90.97.10.0/26 via 0.0.0.0, metric 3, tag 0
      90.97.10.64/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.68/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.76/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.80/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.84/30 via 0.0.0.0, metric 1, tag 0
      90.97.10.88/30 via 0.0.0.0, metric 2, tag 0
      90.97.10.92/30 via 0.0.0.0, metric 3, tag 0
      90.97.10.96/30 via 0.0.0.0, metric 2, tag 0
      100.0.0.0/8 via 0.0.0.0, metric 3, tag 0
RIP: received v2 update from 90.97.10.86 on Serial0/1
      90.96.128.0/18 via 0.0.0.0 in 1 hops
      90.96.208.0/20 via 0.0.0.0 in 2 hops
      90.96.240.0/21 via 0.0.0.0 in 1 hops
      90.97.0.0/22 via 0.0.0.0 in 3 hops
      90.97.4.0/22 via 0.0.0.0 in 3 hops
      90.97.8.0/24 via 0.0.0.0 in 2 hops
      90.97.9.0/24 via 0.0.0.0 in 2 hops
      90.97.10.0/26 via 0.0.0.0 in 3 hops
      90.97.10.76/30 via 0.0.0.0 in 2 hops
      90.97.10.88/30 via 0.0.0.0 in 1 hops
      90.97.10.92/30 via 0.0.0.0 in 2 hops
      90.97.10.96/30 via 0.0.0.0 in 1 hops
      100.0.0.0/8 via 0.0.0.0 in 2 hops
RIP: received v2 update from 90.97.10.65 on Serial0/0
      90.96.0.0/17 via 0.0.0.0 in 1 hops
      90.96.192.0/20 via 0.0.0.0 in 1 hops
      90.96.208.0/20 via 0.0.0.0 in 3 hops
      90.96.224.0/20 via 0.0.0.0 in 1 hops
      90.97.0.0/22 via 0.0.0.0 in 2 hops
      90.97.4.0/22 via 0.0.0.0 in 2 hops
      90.97.10.0/26 via 0.0.0.0 in 2 hops
      90.97.10.68/30 via 0.0.0.0 in 1 hops
      90.97.10.76/30 via 0.0.0.0 in 2 hops
      90.97.10.92/30 via 0.0.0.0 in 3 hops
...
```

> Madrid RIP Datenverkehr