

SwissIX Update @ SwiNOG #35

SwissIX Internet Exchange

May 8, 2019, Gurtenpark, Berne

Welcome Green Datacenter AG



New core site in Lupfig (AG)!

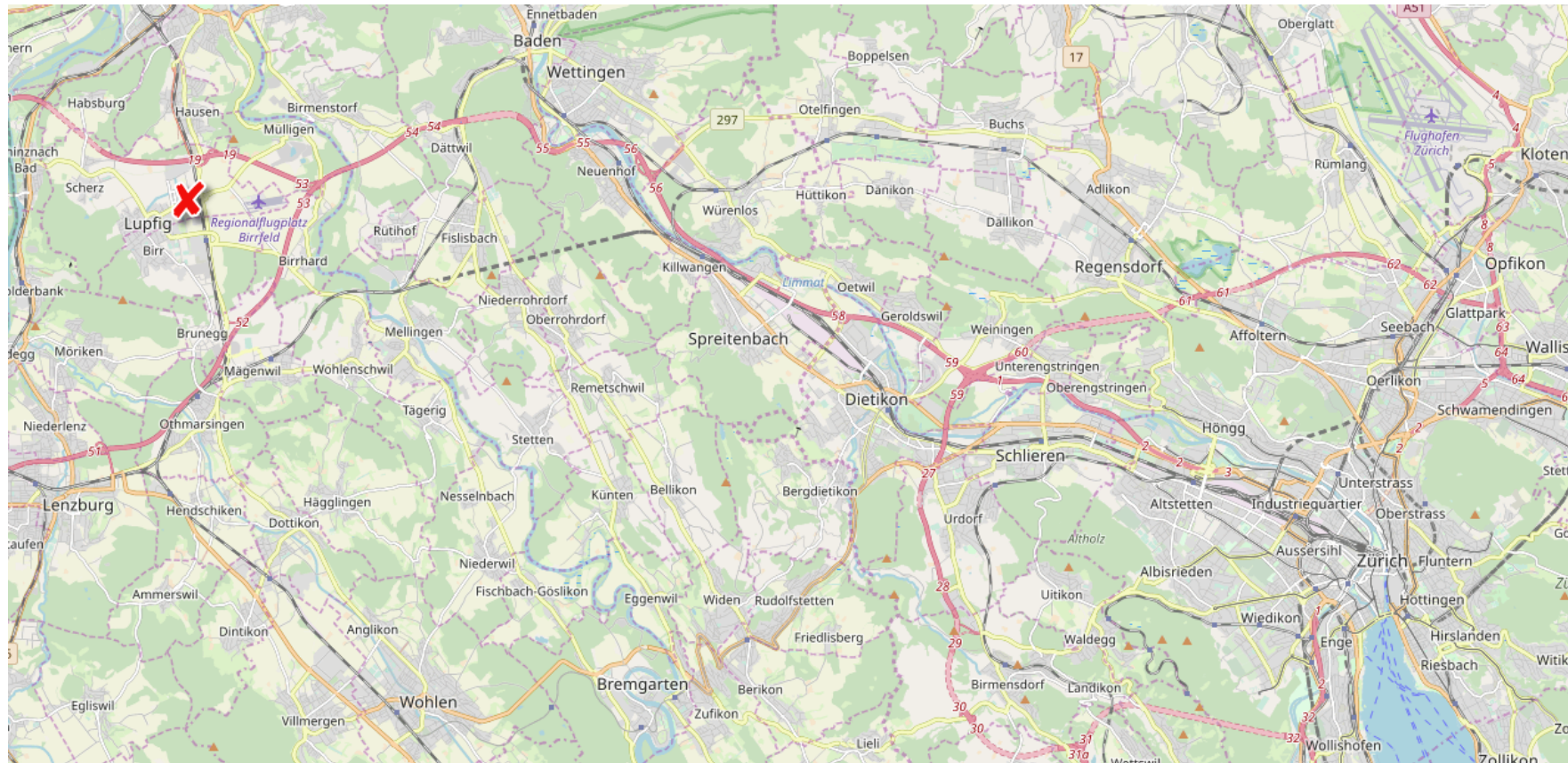
Welcome Green Datacenter AG

- Online since March 14, 2019
- All services available (1-100 Gbps)
- Special offer by Green:
<https://www.greendatacenter.ch/network-services/swissix.html>

TL;DR

First 20 customers with regular 10 Gbps port get 6 months for free.

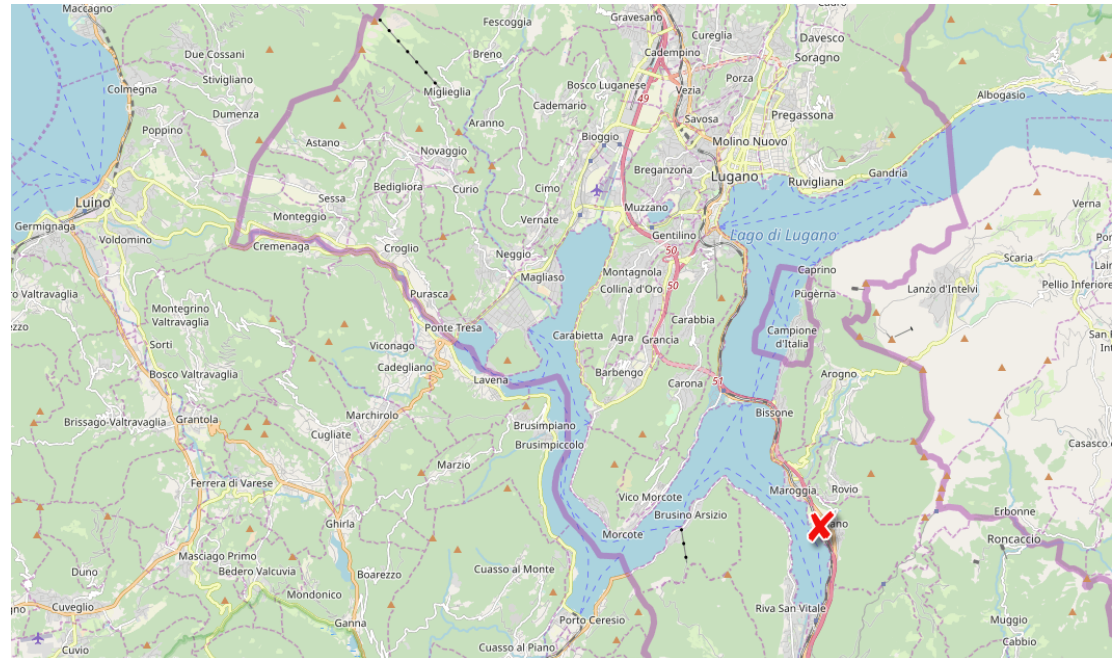
Welcome Green Datacenter AG



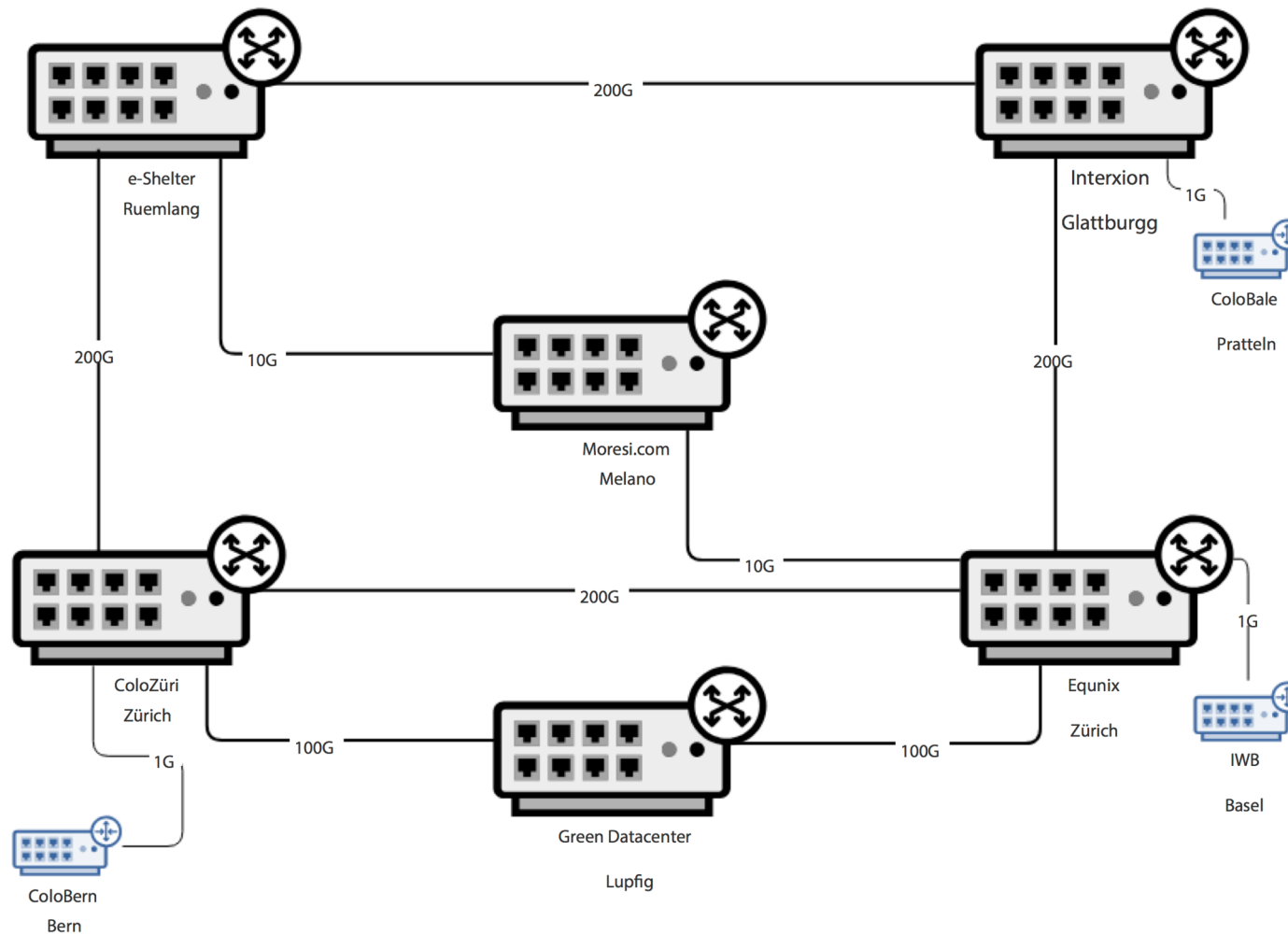
Welcome moresi.com

- First Data Center Reseller
 - <https://www.moresi.com/>
 - For services contact: info@moresi.com

- Melano (TI)



Current Network Topology



Route Servers

- Route security is up and running
 - including RPKI
 - <https://www.swissix.ch/infrastructure/routeserver>

- Rejected routes
 - 65520:*
 - <https://rs1.swissix.ch/>
 - <https://rs2.swissix.ch/>



MANRS

Route Servers

Example of a rejected route

[Configuration details rs1.swissix.ch](#)

Goto: [rs2.swissix.ch](#)

show ip bgp detail ▼ 2.56.164.0/24 submit

```
BGP routing table entry for 2.56.164.0/24
6461 20860 209183
Nexthop 91.206.52.115 (via 91.206.52.115) from 91.206.52.115 (64.125.0.8)
Origin IGP, metric 1360, localpref 1, weight 0, ovs not-found, external, valid, best
Last update: 00:46:13 ago
Communities: 65520:9 65520:0 64512:11 64512:20 0:42476 4247:29222
Large Communities: 42476:65520:9 42476:65520:0 42476:64512:11 42476:64512:20
```

success.

8	Transit-free ASN in AS_PATH
9	Origin ASN not in IRRDB AS-SETs
10	IPv6 prefix not in global unicast space

Pricing

Port	MRC 2018	MRC 2019
1 Gbps	-	-
1 Gbps CDR (95%) on 10 Gbps	n/a	CHF 250
10 Gbps (1 st port)	CHF 750	CHF 450
10 Gbps (additional port)	CHF 400	CHF 450
100 Gbps	CHF 2'600	CHF 2'500

- Effective Jan 1, 2019
- Free redundant port
 - Port speeds of 1 Gbps CDR on 10 Gbps and above qualify
 - Must be located at a different core site
 - Aggregated traffic must stay below total capacity of **paid** ports

1 Gbps CDR (95%) on 10 Gbps

- 10 Gbps port, no rate limiting
- 95% rule applies
 - maximum of 36h (per month) over 1 Gbps
 - measurement based on 5 minute average
 - auto-upgrade to regular 10 Gbps port, if 1 Gbps CDR exceeded for more than 3 months in the last 12 months.

Minimum term for regular port: 12 months

- Free redundant port applies

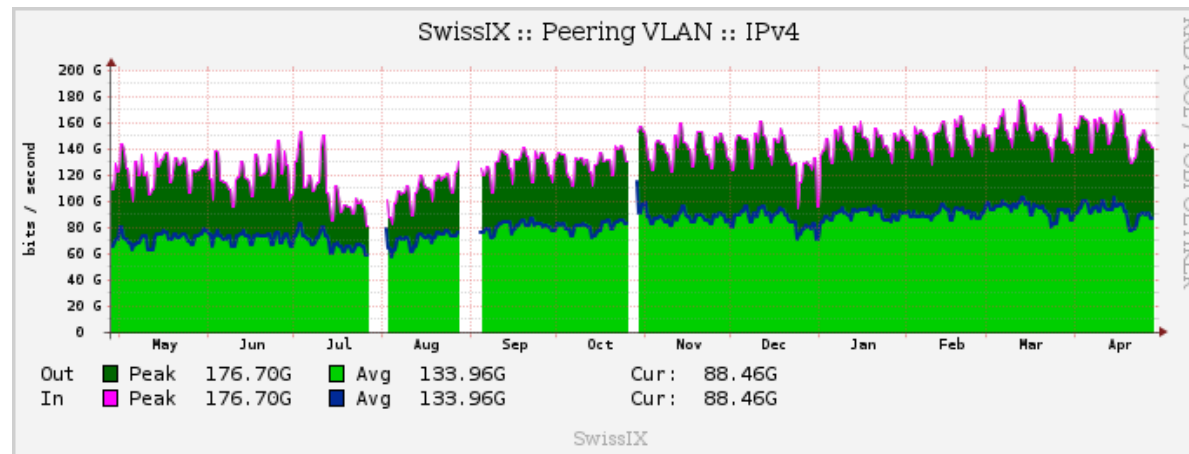
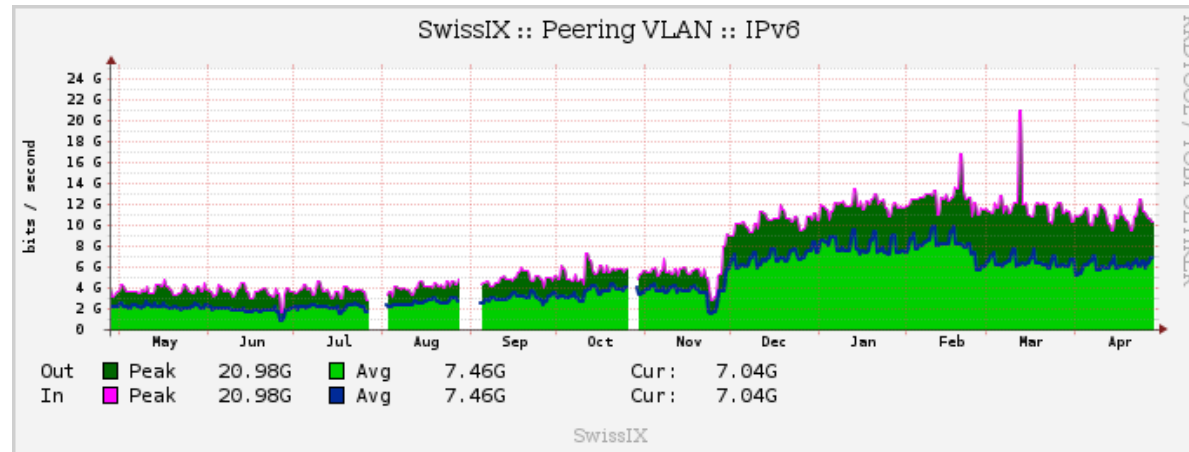
Pricing

<https://peering.exposed/>

Rang	IXP	85% on 10G EUR Cents/Monat und Mbps	40% on 10G EUR Cents/Monat und Mbps
46	LONAP	4.10	8.70
49	<u>SwissIX</u>	4.60	9.90
53	INEX	5.10	10.80
63	LINX (LON2)	6.30	13.50
64	NIX.CZ	6.50	13.50
67	VIX	6.80	14.50
69	GR-IX	7.20	15.40
74	BCIX	8.40	17.90
75	AMS-IX	8.50	18.00
89	LINX (LON1)	10.10	21.50
91	France IX (PAR)	10.30	22.00
97	MIX-IT	11.10	23.60
99	CIXP	11.50	24.40
101	ECIX	12.10	25.70

As of: March 2019

Fun Facts – IPv6



Fun Facts – IPv6

- Only 10% IPv6 traffic on the peering mesh
- Still 90% IPv4 traffic
- “Potential IPv4 Unicast Expansions
Speakers: John Gilmore, Dave Taht, Paul Wouters”

- <https://www.netdevconf.org/0x13/session.html?talk-ipv4-unicast-expansions>
use 0/8, 224/4, 240/4 for unicast

SwissIX General Meeting

Save the date!

June 11, 2019, 14:30

Green Datacenter AG, Lupfig

There will be beer! ;-)

Happy Peering

...und ä Guetä!