



[www.VIX.at](http://www.VIX.at)

**The Vienna Internet eXchange**

**CEE Peering Days 2016**

**Budapest, 30./31. March 2016**

Christian Panigl

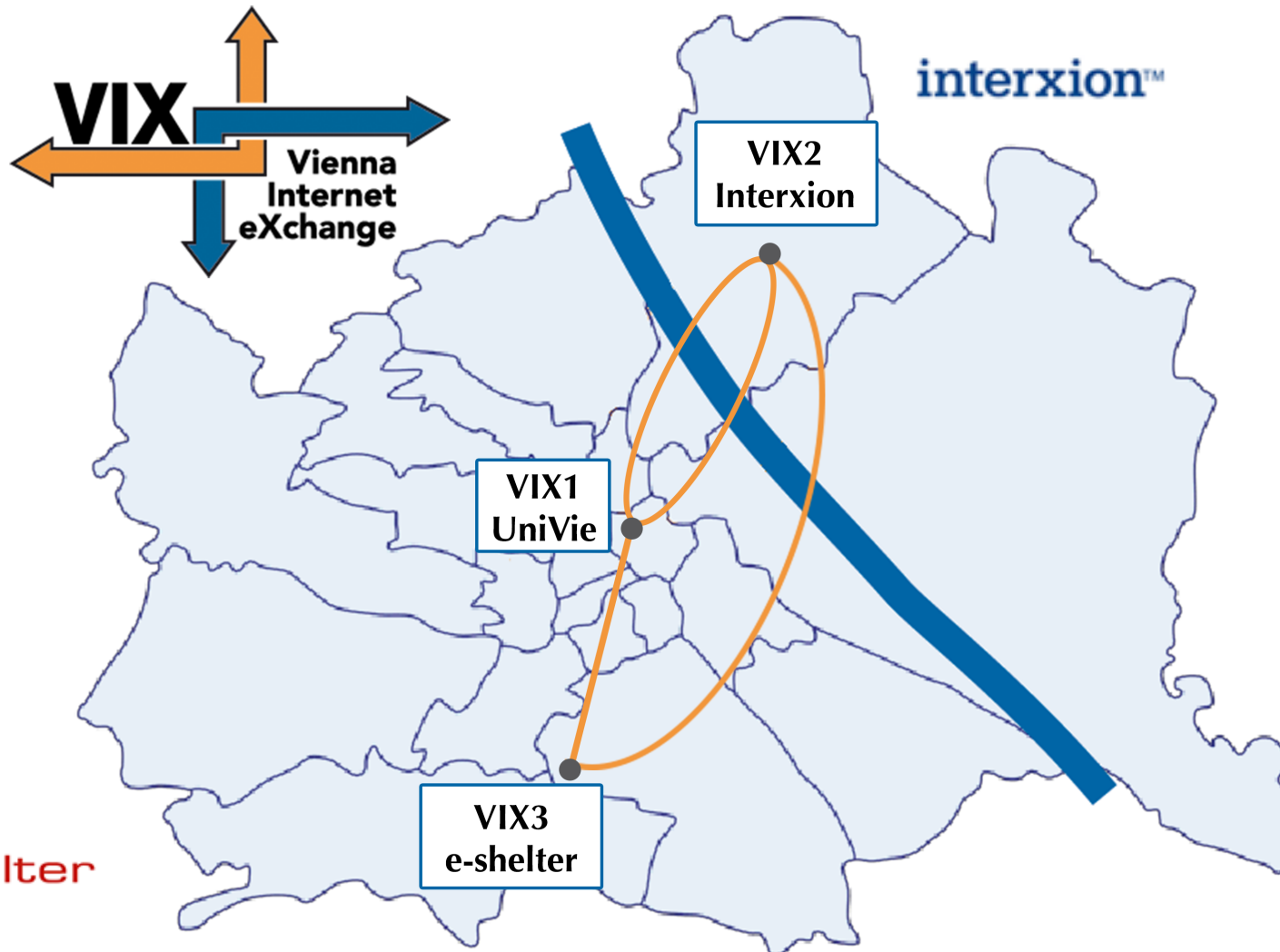
Inquiries: [<admin@vix.at>](mailto:admin@vix.at)

Ein Service der





VIX1 established 1996 – VIX2 since 2001 – VIX3 since 2015



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e-shelter



## Current Status VIX (March 2016)

**For 20 Years now !**

- VIX switching infrastructure **operated by the Vienna University Computer Center / ACOnet - Team since 1996**
- neutral, robust, resilient and non-profit peering environment for the academic and commercial Internet market in the CEE region
- Overall availability of VIX since 1996 better than 99.999%
- **127 active participants** (AS numbers)
  - on **172 ports** (IPv6 on 132 of them)
  - 122 participant ports @10GbEth
  - 6 participant ports @100GbEth
- traffic summary peaks > 350 Gbps (~ 50% traffic growth over last 12 months)
- but still < 2% IPv6
- inter-site capacity 240 Gbps / typical inter-site traffic < 35 Gbps



## Versatile Peering Environment

- > 50% (increasing) of VIX participants from outside Austria
  - Carriers, ISPs, CDNs, Content/Hosters, Cloud Providers ...
- well accepted **Route Servers** with convenient Admin Web-GUI
- ~ 65% of the participants have an **Open Peering Policy**
- focussed on Austrian and CEE regional peering market
- **VIX Partner & Reseller Program launched**



## Core Hardware since October 2013

- Core: 2 x Brocade MLXe-32 + MLXe-16
- 6 Tbit chassis capacity
- optimised for 10Gbit Ports
- 100Gbit Ports available
- VPLS
- Working on:
  - Carrier/Reseller Ports
  - Private Peering VLANs
- Other services on demand

**BROCADE** 



**euromicron**  
austria GmbH

euromicron Gruppe



## Standard port options

The Vienna Internet eXchange offers the following

- **Standard port types (available at all three locations):**
  - **2.5 Gbit/s** (subrate on physical 10GBase-LR)
  - **10 Gbit/s** (10GBase-LR)
  - **100 Gbit/s** (100GBase-LR4)
- Other port types on request subject to availability
- See [https://www.vix.at/vix\\_costs.html](https://www.vix.at/vix_costs.html) for details
- Lower port speeds available through VIX Resellers ...



## VIX Partner & Reseller Program

- **VIX Reseller contract** available
  - from [<admin@vix.at>](mailto:admin@vix.at)
- Simple pricing model
- Initial focus on local / regional aggregators
  - for cost-efficient aggregation of “lower-speed” connections
- for simplifying remote connections

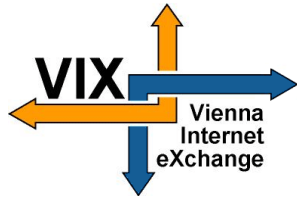


## Actual VIX Resellers

- <http://www.core-backbone.de/>
- <http://linznet.at>
- <https://www.nextlayer.at>
- <http://retn.net>
- <http://ixreach.net> (pending)







## IPv4 Peering-LAN got space to grow

- IPv4 Peering-LAN address 193.203.0.0/24
  - recently got a “sister”: 193.203.1.0/24
  - to be merged soon (Q2/2016) into: **193.203.0.0/23**
- After migration VIX Peering-LAN addresses will be **no longer globally announced** to the Internet



## VIX3 since October 2015

- New carrier-neutral datacenter provider:
  - [www.e-shelter.at](http://www.e-shelter.at) in Vienna !
- **VIX3 @ e-shelter interconnected** with **VIX1 @ UniVie** and **VIX2 @ Interxion**
- Additional resilience and disaster tolerance options

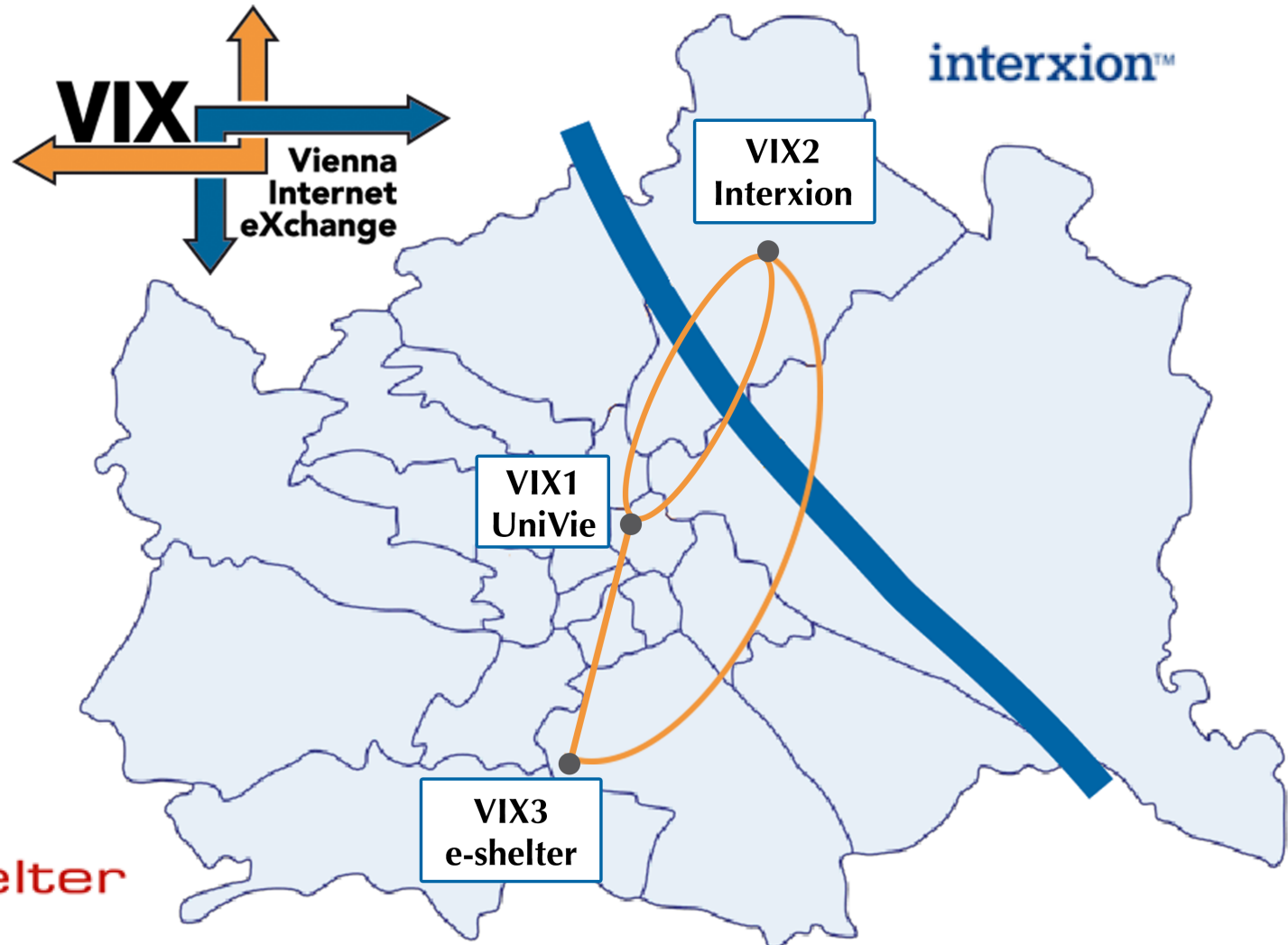


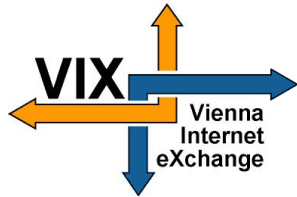
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Comments ?  
Questions ?  
Suggestions ?

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