

All (rather: the little I know) about Peering in Austria

EIX-WG @ RIPE 63, Vienna 3. November 2011

Christian.Panigl@UniVie.ac.at





IP Peering in Austria



- started with the birth of the Vienna Internet eXchange
 - in 1996: VIX1 was established @ UniVie/NIG



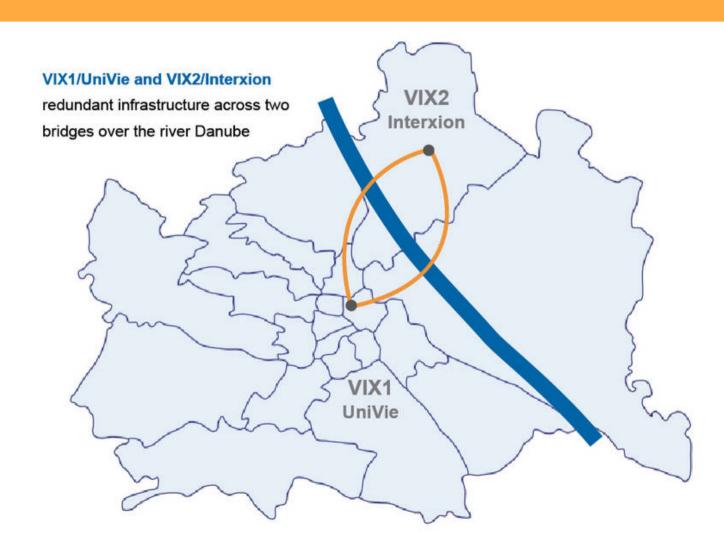


VIX Early Days

- 5 founding members of VIX in 1996:
 - ACOnet
 - VIAnet
 - IBM Global Network now: ATTGlobal
 - EUnet.at
 - APA, Austria Press Agency
- 12 months later already 20 participants @ VIX
- another 48 months later: 70 participants
- 2001: second location, VIX2 @ Interxion Austria











The Days after 2001

- massive consolidations in the ISP market in Austria
- Telekom Austria (A1) was "integrating" many alternative ISPs (incl ATnet, eTel, Eunet, ...)
- Others have been taken over by
 - Tele2 (e.g. UTA/Netway) and
 - UPC (e.g. Inode)
- Today only 3 big "eyeball" providers in Austria:
 - A1 Telekom Austria
 - Tele2
 - UPC





Current Status VIX, November 2011

- VIX switching infrastructure still operated by the Vienna University Computer
 Center / ACOnet Team
- neutral, robust, resilient and non-profit peering environment for the academic and commercial Internet market in the CEE region
- 107 active participants (AS numbers)
 - on 138 ports (IPv6 on 75 of them)
 - 18 participant ports @10GbEth
- traffic summary peaks >60Gbps
- well accepted Route Server with convenient Admin GUI
- availability since 1996 better than 99.99%
 - in every single year
 - until 2001 (single-site) better than 99.97%
 - since 2001 (dual-site) better than 99.98%





Other public IP Peering Points in Austria

- Alpes Adria Internet Exchange (Klagenfurt)
 - http://www.aaix.at/
 - 1Gb port for free
 - 8 (12) participants
- Grazer Internet eXchange
 - http://www.grax.at/
 - 1Gb port for free
 - 9 participants
- + some (private) peering facilities at universities, ISPs and datacenters





Peering Situation @VIX (November 2011)

- ~ 40% of the VIX participants are already coming from outside Austria
 - Carriers, ISPs, CDNs, Content/Hosters...
- ~ 70% of the participants have an Open Peering Policy
- still focussed on CEE regional peering
- high potential identified
- more PR needed
- partnership programs might help





Comments? Questions? Suggestions?

