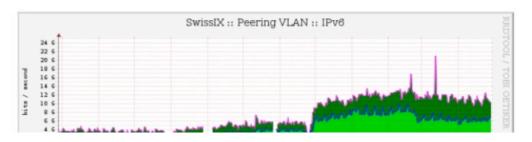


Poor man's explanation why IPv6 is stalling in Switzerland

Jean-Pierre Schwickerath Swinog 36, Gurtenpark, Berne



Fun Facts – IPv6



- Only 10% IPv6 traffic on the peering mesh
- Still 90% IPv4 traffic



© SwissIX Update @ SwiNOG #35, Manuel Schweizer, May 8th 2019





Reasons

- IPv6 not enabled in the datacenter
 - Really?
- Legacy traffic
 - Twitter, Github, Skype, ...
 - VPNs
- Know your eyeballs!



Classes of eyeballs

- Mobile networks 3G/4G/5G
 - _ no IPV6
- Public wifi
 - Homoeopathic presence
- SoHo
 - ✓ Major ISPs
- SME
 - You can get it, if you really want but you must try, try and try
- Enterprise
 - _



Definition of SME internet access

- Copper or fiber if possible / present / allowed
- Fixed IPv4 address(es)
- Bridge or DMZ that allows own firewall
- Monthly fee < CHF 200



IPv6 experience

ISP	IPv6 SoHo	IPv6 SME
UPC		×
Quickline		×
Glattnet	X	Same product as SoHO Project stopped?
Green	No experience	Only on Swisscom infrastructure
Swisscom		■ Buggy to broken
Fiber7		



Swisscom: Business Internet Services



IPv6

What is IPv6? Do I need IPv6? The Internet is based on an address plan. Each computer/device is allocated an IP address to enable them to communicate with each other. The current IPv4 address plan is slowly but surely running out of addresses. The new IPv6 address plan allows a larger number of addresses for the increasing number of devices with Internet access. If you use your Internet connection normally, we recommend continuing to use IPv4.

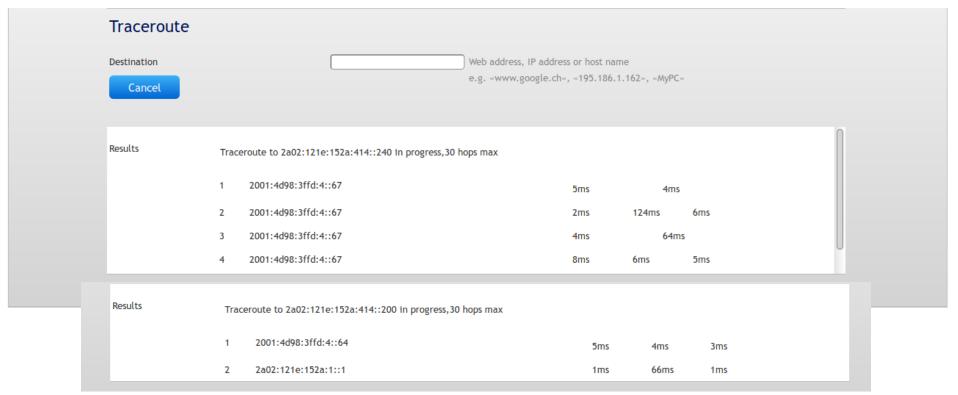
Deactivate IPv6

Bad marketing!



DMZ routing is breaking every other day

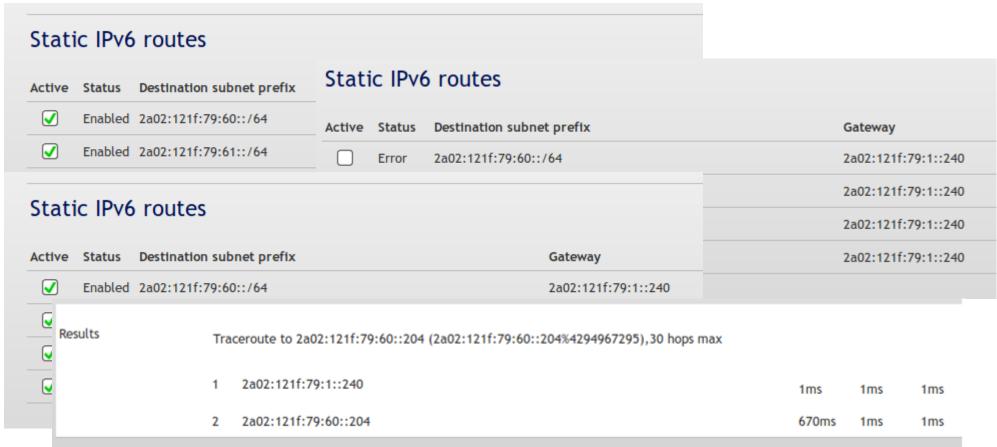
Source: 2a02:121e:152a:1::1 Ticket 5-733262220189





Manual solution

Ticket 5-733262220189





What can we do?

- Teach people, IPv6 is only scary if you don't know about it
 - Marketing, Administration, Support, Apprentices
- Stop disabling IPv6 as a permanent solution
- Report problems and issues to ISP or vendor
- Ask for IPv6 every time you are in contact with an ISP



Questions?

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HILOTEC: Sichere IT, die einfach funktioniert!