



AMS-IX Update

APRICOT/APNIC IX SIG

Perth, 2nd March 2006

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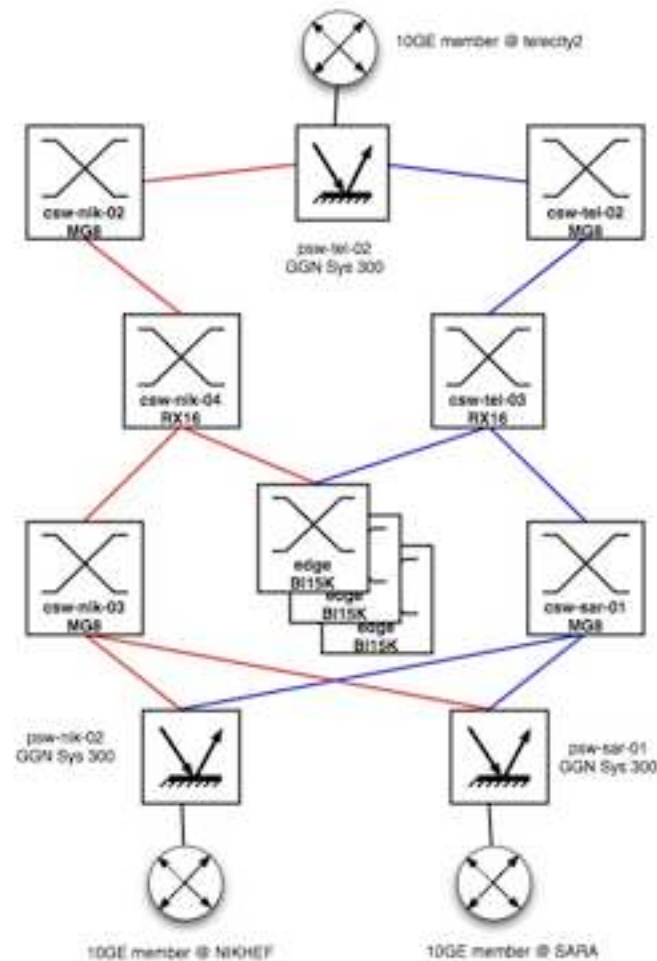
About AMS-IX

- AMS-IX is a non-profit, neutral and independent, professional exchange.
- The beginnings of the exchange can be traced back to the early 1990's.
- On the 29th of December 1997 AMS-IX was established as an Association in Amsterdam, the Netherlands, operating under Dutch Law.
- Amsterdam Internet Exchange B.V. is the company of which the Association is a 100% owner that acts as the operator and administrator of the exchange.
- The Association today exists of 240+ members, mostly ISP's but also (mobile) telecom providers, carriers, hosting providers, ASP's and content providers

Port and Member Statistics

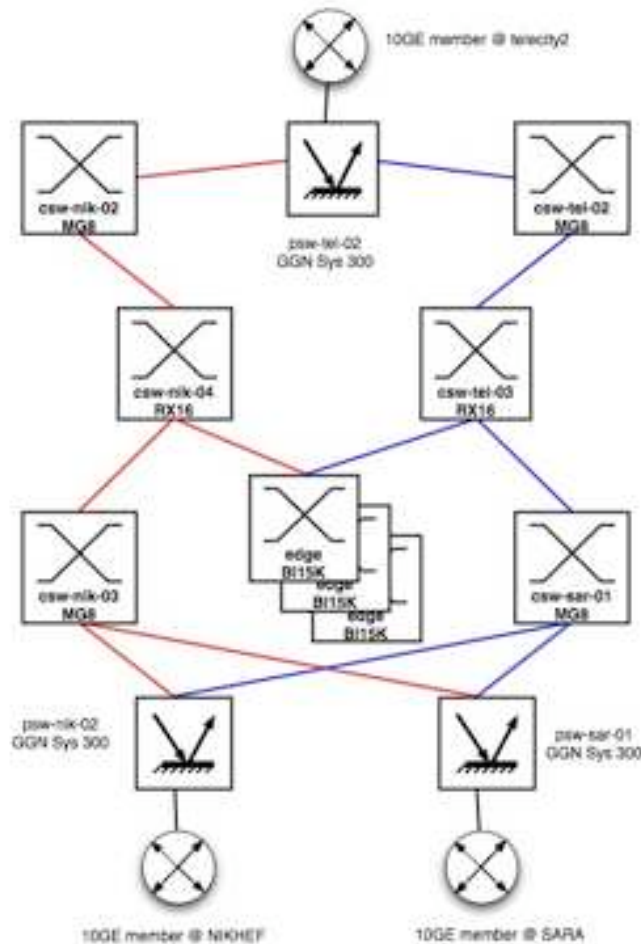
	Jan 2005	Jan 2006	+/-
# members	209	237	+28
# ports	309	364	+53
10 GE – LR/ER	4	43	+39
1 GE-SX/LX	164	179	+15
100base-TX	85	90	+5
10base-T	46	52	+6

AMS-IX Toplogy-1



- 2 Core-switches are Foundry RX16
- 4 Stub-switches Foundry MG8 for 10GE members access
- 7 Edge-switches on 4 locations for \leq GE connections
- Glimmerglass photonic switches are used to provide resilient connections to the core for 10GE member connections

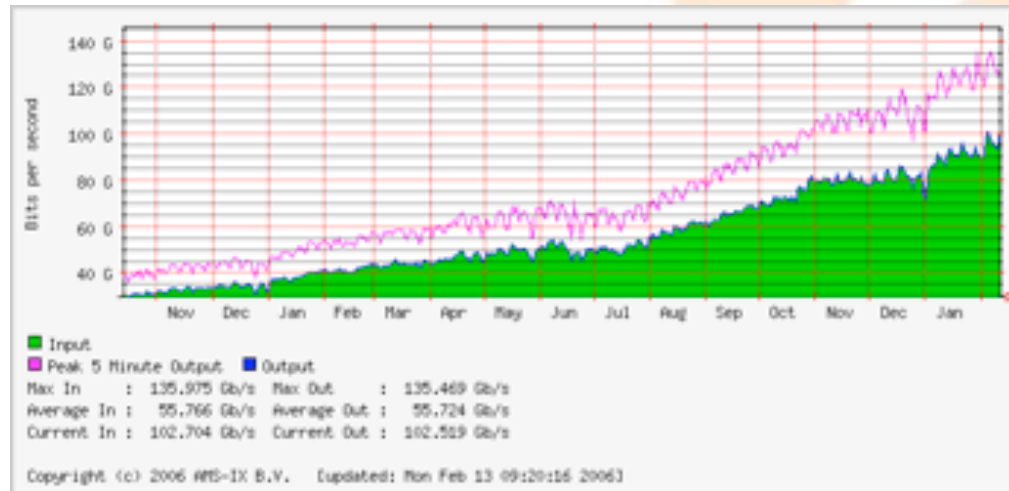
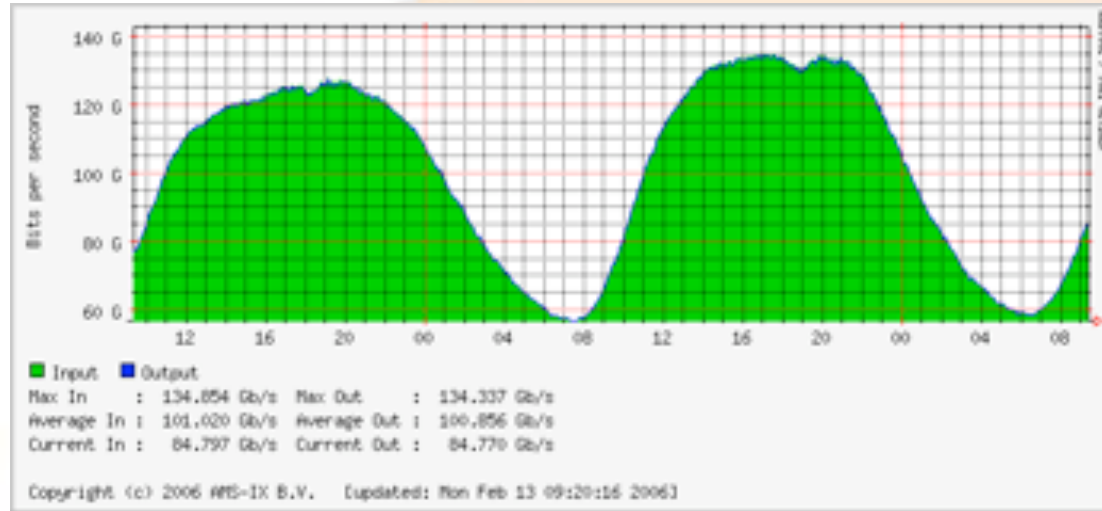
AMS-IX Toplogy-2



- The two core switches run VSRP (Virtual Switch Redundancy Protocol) to define the active hub/spoke and to automatically fail over to the other
- The 10GE members are connected to the photonic switches to ensure VSRP swap follow on

Traffic & volume statistics

- Public peering traffic
Max 135 Gbps (5 minutes average)
- Nightly traffic just under 60 Gbps



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Month	Volume In/Out Petabytes
Jan 2005	12.4
Jan 2006	29.1 ₆

Member Survey Results (1)

- New members come to AMS-IX for the routes they can get
- Existing members stay because of the cost savings they realize
- Performance of the NOC team rates at 8.4
- Platform parameters (packet loss, delay and jitter) are considered good to outstanding
 - We could work on reporting

Member Survey Results (2)

- Establishment of peering seems smooth for most parties
 - Members peering information is available online
- Open or semi-open policies for 87 % of the respondents
- 64% peers with over 100 unique ASN's
- Respondents networks are at 4+ exchanges (excl. 10+ answers)
 - Most mentioned: DE-CIX, LINX, NL-IX, Equinix

Developments

- 10GE uptake continuously high
 - Serious platform challenges
- Route server launched in beta
- CWDM GE interfaces
- VoIP / ENUM / SIP developments
- Streaming developments

Questions ?