



„Quality IP Exchange,  
peering value beyond measure”

### **The professional, neutral Internet Exchange that leads the way in global peering services.**

Our members/customers tell us that connecting to an Internet Exchange is all about the number of peers (other parties to exchange traffic with) that you will find there. The number of peerings you can set up over an exchange platform determines the cost savings and network optimisation that can be accomplished. With over 350 connected parties coming from all around the world, AMS-IX offers the highest density of peering parties you will find anywhere at a single Exchange.

AMS-IX is a neutral and independent not for profit Internet Exchange providing services since the early 1990's. The Exchange finds its origins in the Amsterdam Science Park where scientists first started to communicate electronically with their counterparts abroad. Soon other parties joined to exchange traffic. In 1997 AMS-IX was established as an association by 20 market parties. Amsterdam Internet Exchange B.V. is the company of which the association is a 100% owner, and that acts as the operator and administrator of the Exchange. The members of the association have equal voting rights.

The AMS-IX platform continuously provides the connected parties with professional, high quality, non-blocking peering services. We offer traditional peering services for all types of IP traffic whether data or VoIP. Moreover we host the first mobile peering points worldwide, the global GPRS Roaming Exchange (GRX) and the Mobile Data Exchange (MDX). Another service in the portfolio is the Multicast peering service, offering solutions for broadcasting traffic.

Furthermore, by peering at AMS-IX, parties are in excellent position to buy IP transit or other transport services from the many (50+) carriers present at our locations throughout Amsterdam. We interconnect small and large "traditional" Internet Service Providers, international carriers, mobile operators, VoIP providers, applications providers, webhosters and other related businesses all united in one Association: AMS-IX.

### **Amsterdam Internet Exchange**

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### **What is an Internet Exchange?**

As a network of networks the Internet builds onto the reliability of these networks. Interconnection, this is where Internet Exchanges come into the picture. At an Internet Exchange, the networks of Internet Service Providers, telecommunications carriers, content providers, webhosters and the like, meet to exchange IP traffic with one another.

Exchange points offer a shared infrastructure for these networks to interconnect on an individual basis with all the other networks. This exchanging of national and/or international IP traffic is generally known as 'peering'. AMS-IX is one of the world's largest Internet peering exchange points.

Every member at AMS-IX is in the position to peer with any of the other connected parties although they are not obliged to: each member might have a different peering policy, and this policy may differ depending on the party that is negotiating with them.

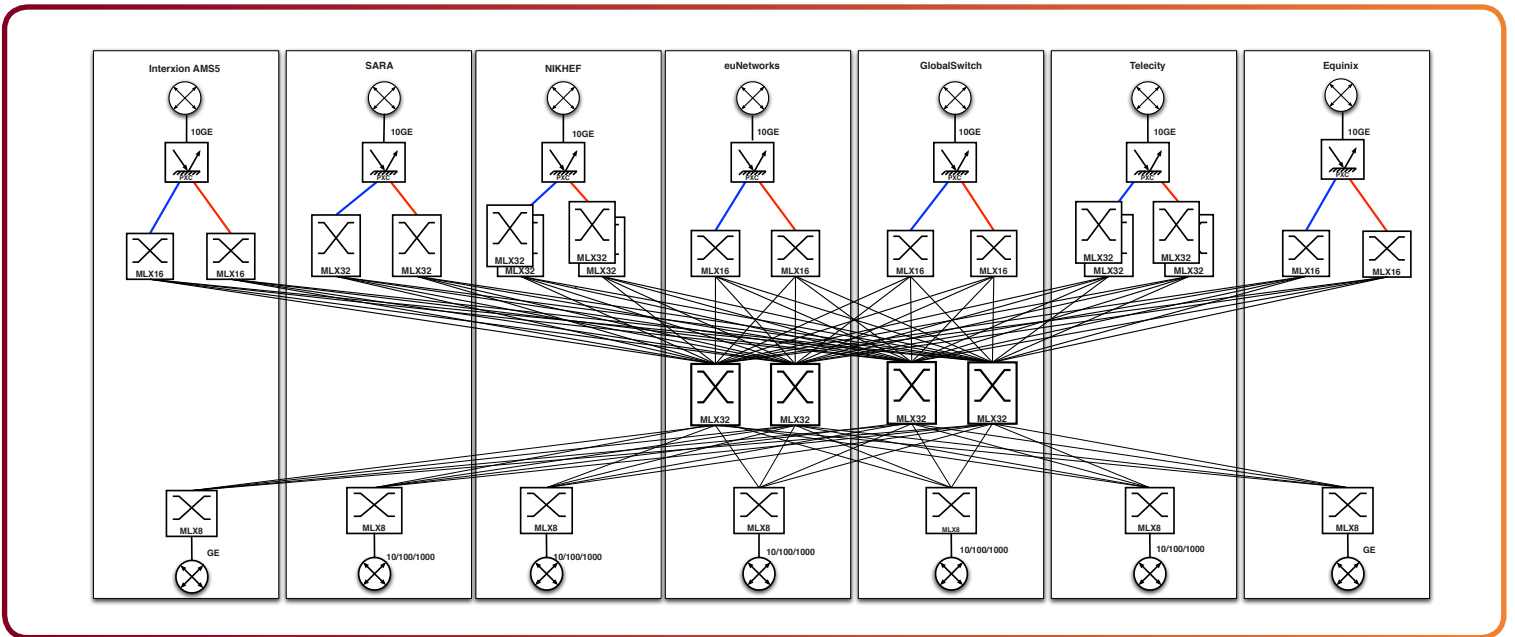
Peering is mostly done without an exchange of money and based on a balanced situation where parties see a mutual benefit. This mutual benefit is generally established by the traffic and routes sent and received, so unless parties have an open peering policy regardless, they will peer with parties of about the same size.



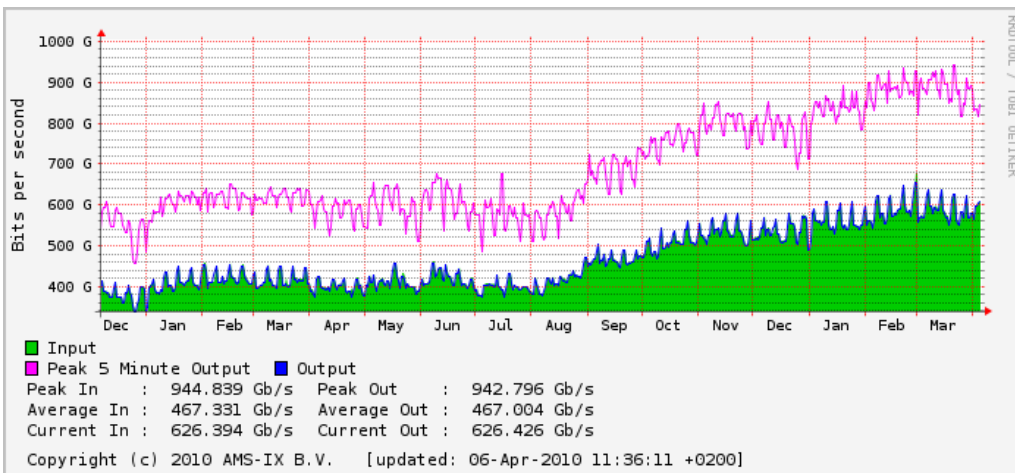
## AMS-IX Infrastructure

AMS-IX is a distributed exchange, currently present at multiple independent co-location facilities in Amsterdam. Each site is equipped with one or more access devices to enable connections to the AMS-IX infrastructure. Co-location services for members are available at all datacenter facilities, this is not part of the AMS-IX services.

The current implementation of the AMS-IX peering platform uses an MPLS/VPLS infrastructure. This setup allows for a resilient and highly scalable infrastructure inherent to MPLS, while at the same time the interface towards the members is still the common shared Layer 2 Ethernet platform.



Members connect with either Gigabit Ethernet (GE), 10Gigabit Ethernet (10GE) or multiples of these on the access devices. These are Brocade MLX-8 PE routers for GE connections or Brocade MLX-16 or MLX-32 PE routers for 10GE connections. To provide more resilience in the connection of 10GE connections to the platform, these are terminated on a Glimmerglass system 100 or 300 photonic cross-connect (PXC). The PXC connects the member router (at Layer 1) to one of the local PE routers and if necessary moves this connection to a backup router.



### AMS-IX Vitals (06 Apr. 2010)

Members: 350

Ports: 613

The current 5 minute peak traffic is over 944Gbits/s (on a five minute average).