



# SwissIX Update #11

SWINOG#23 - 10.Nov.2011

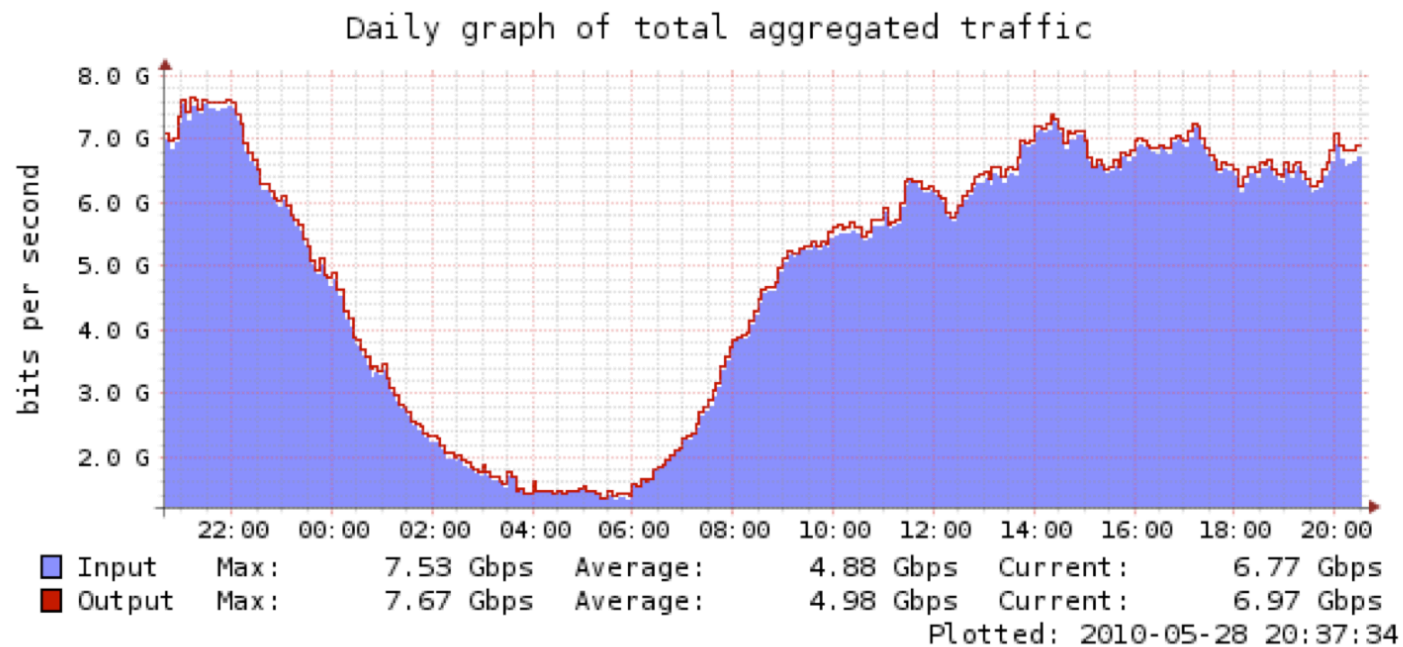
Basile Bluntschli



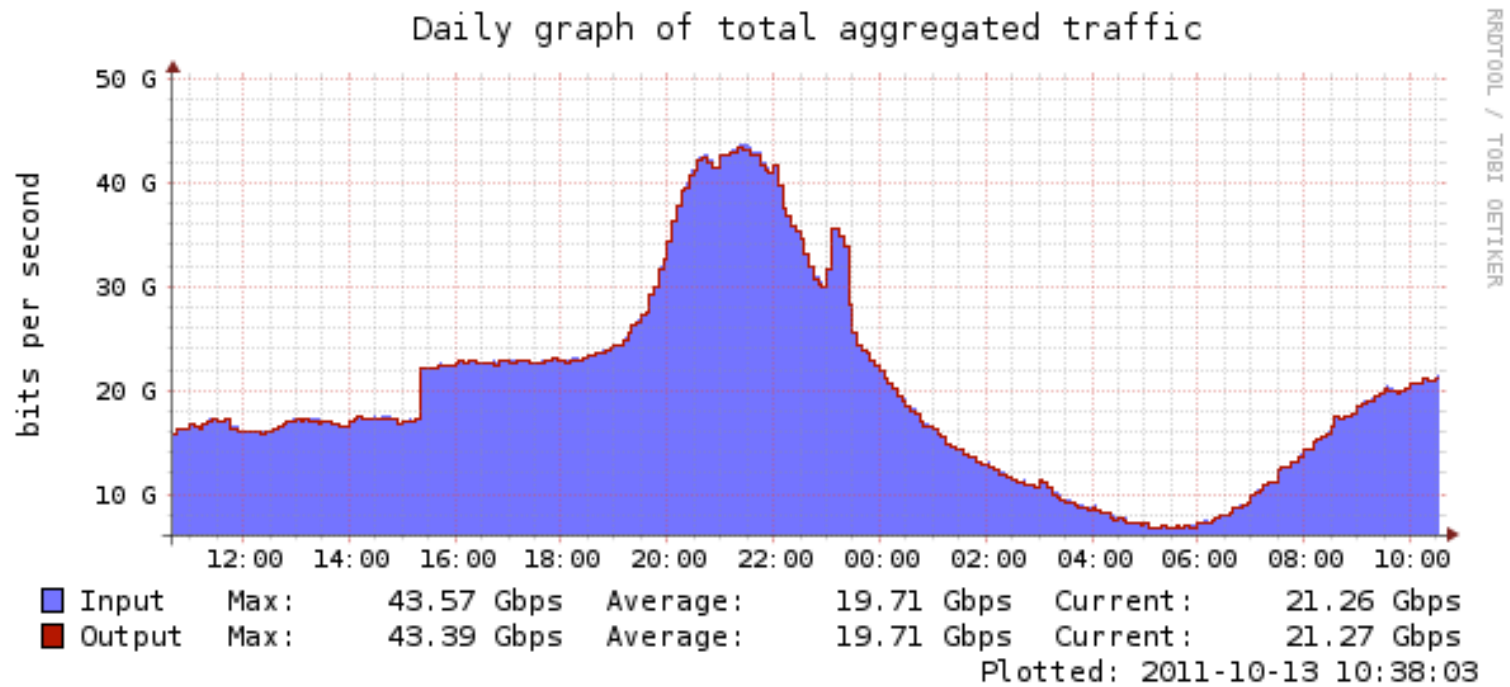


- Members
  - 138 Active Members connected
  - 8 new Members acquired during the last months
- Ports
  - increasing need for 10 Gig Ports
  - Total: 152 active Ports
- Capacity
  - 300 Gbps+

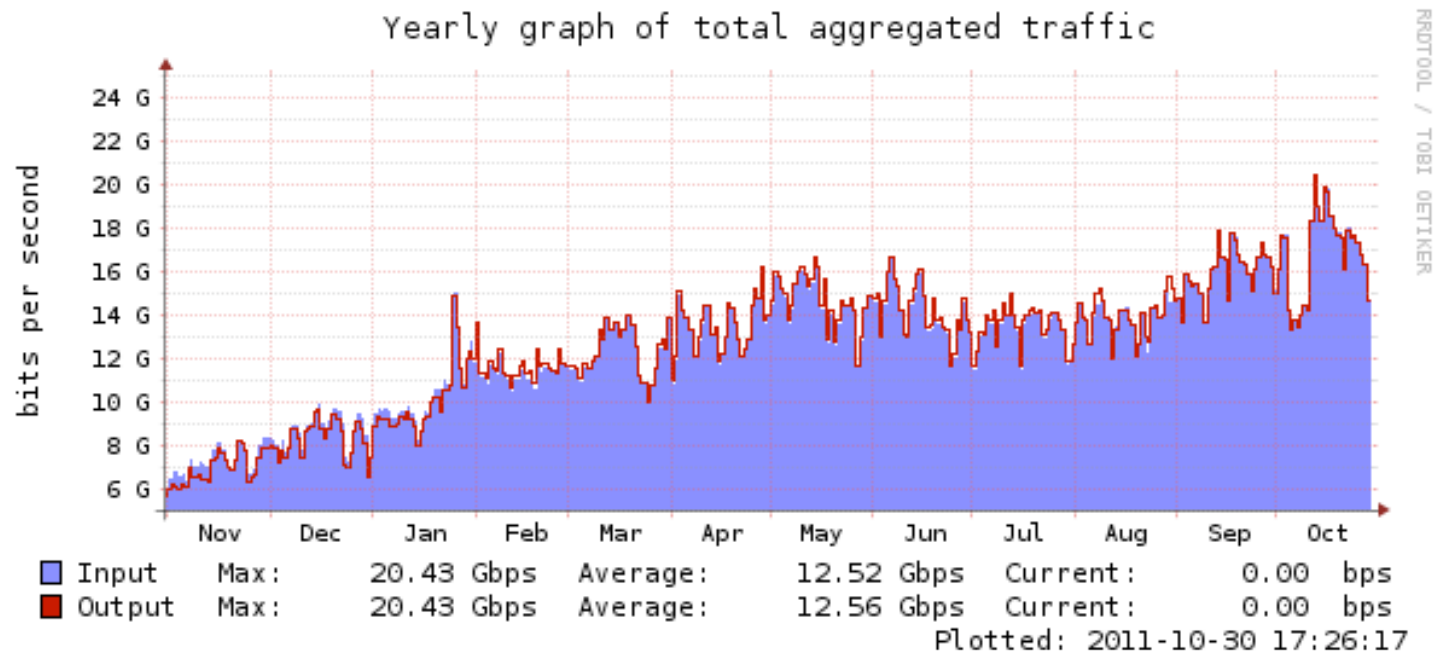
- Traffic 1 year ago:



- Traffic now:



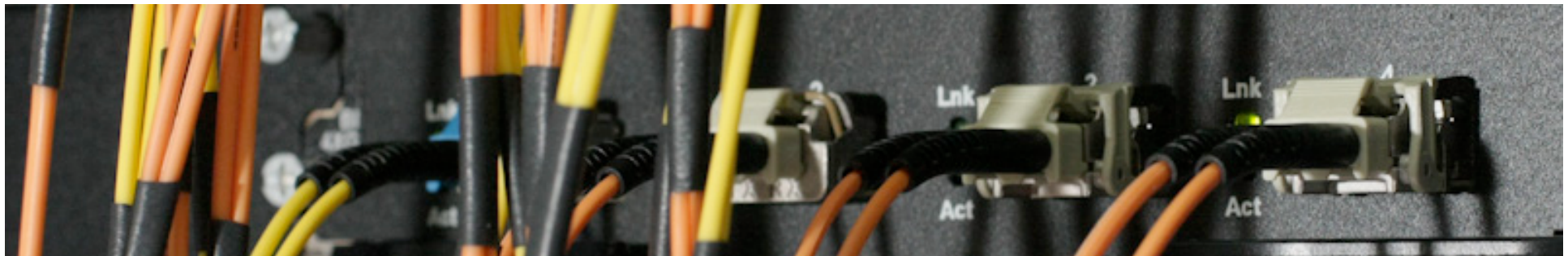
- Traffic growth:

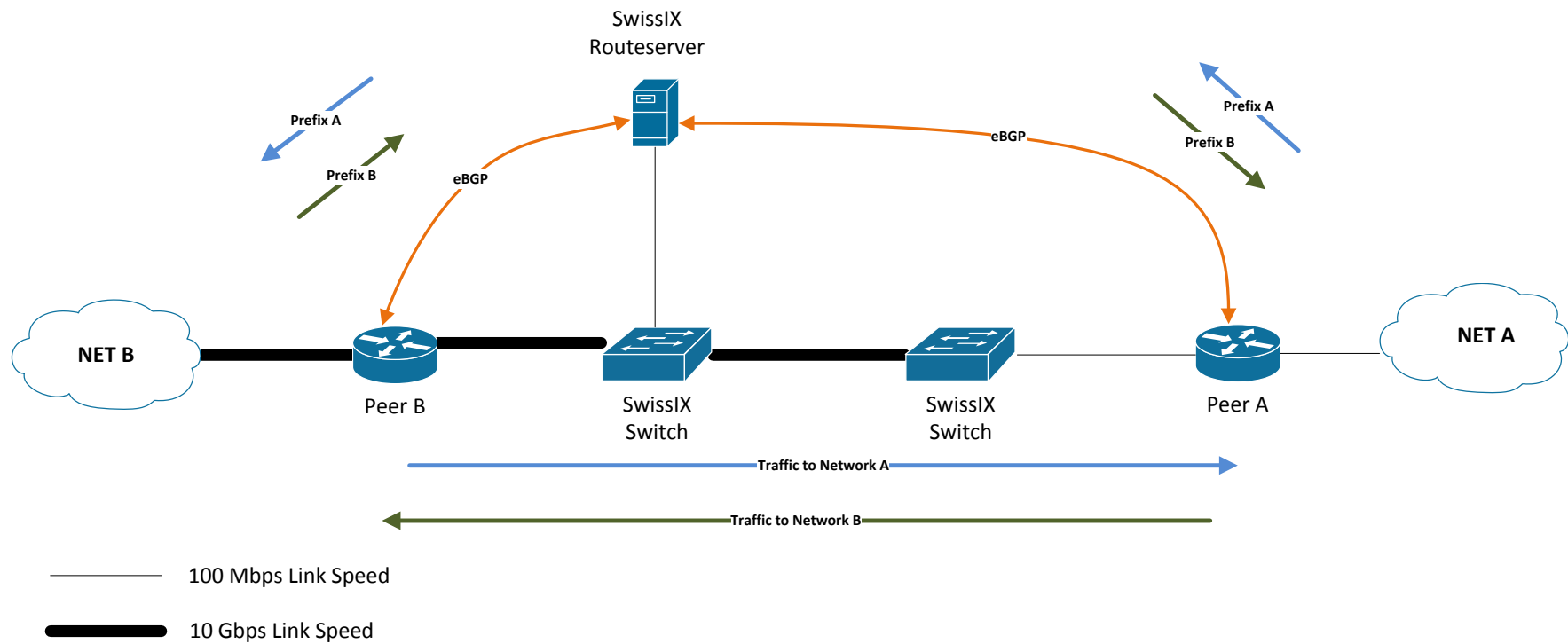


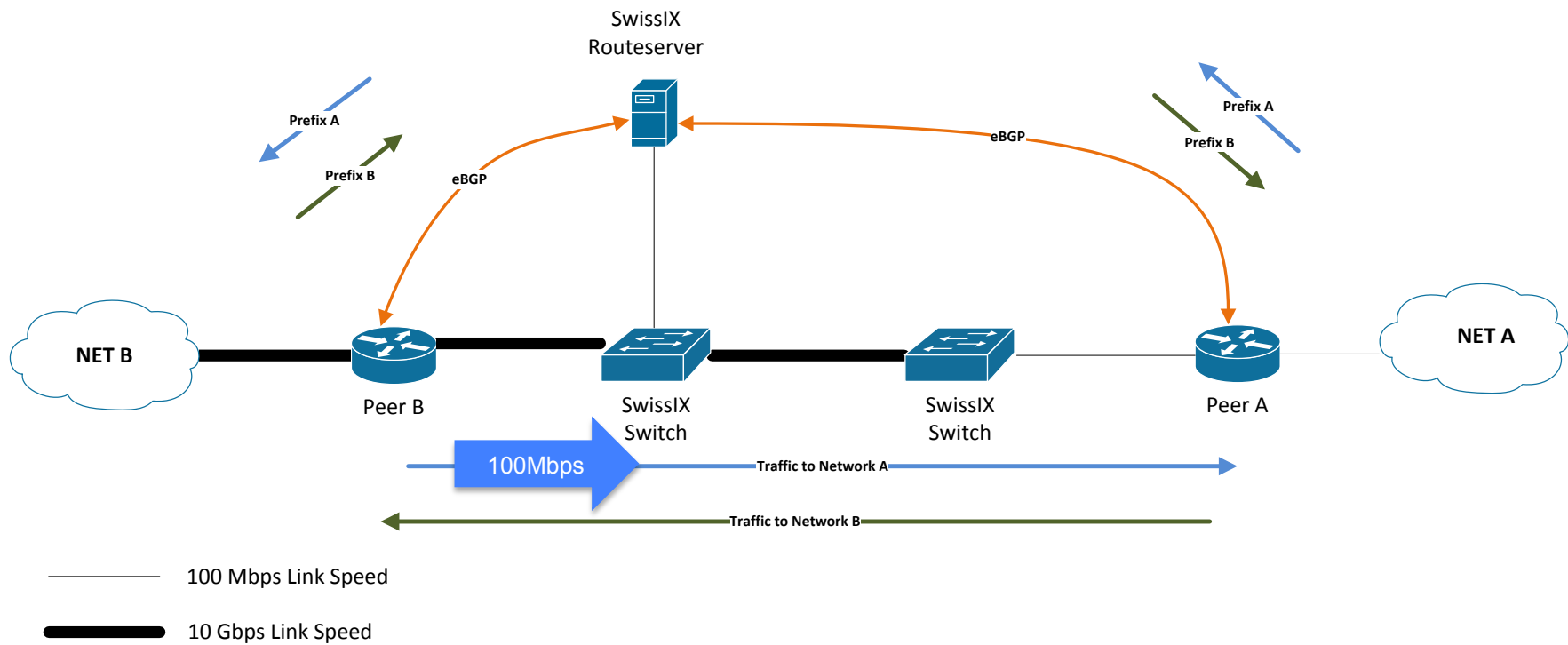
# Tech-Talk:

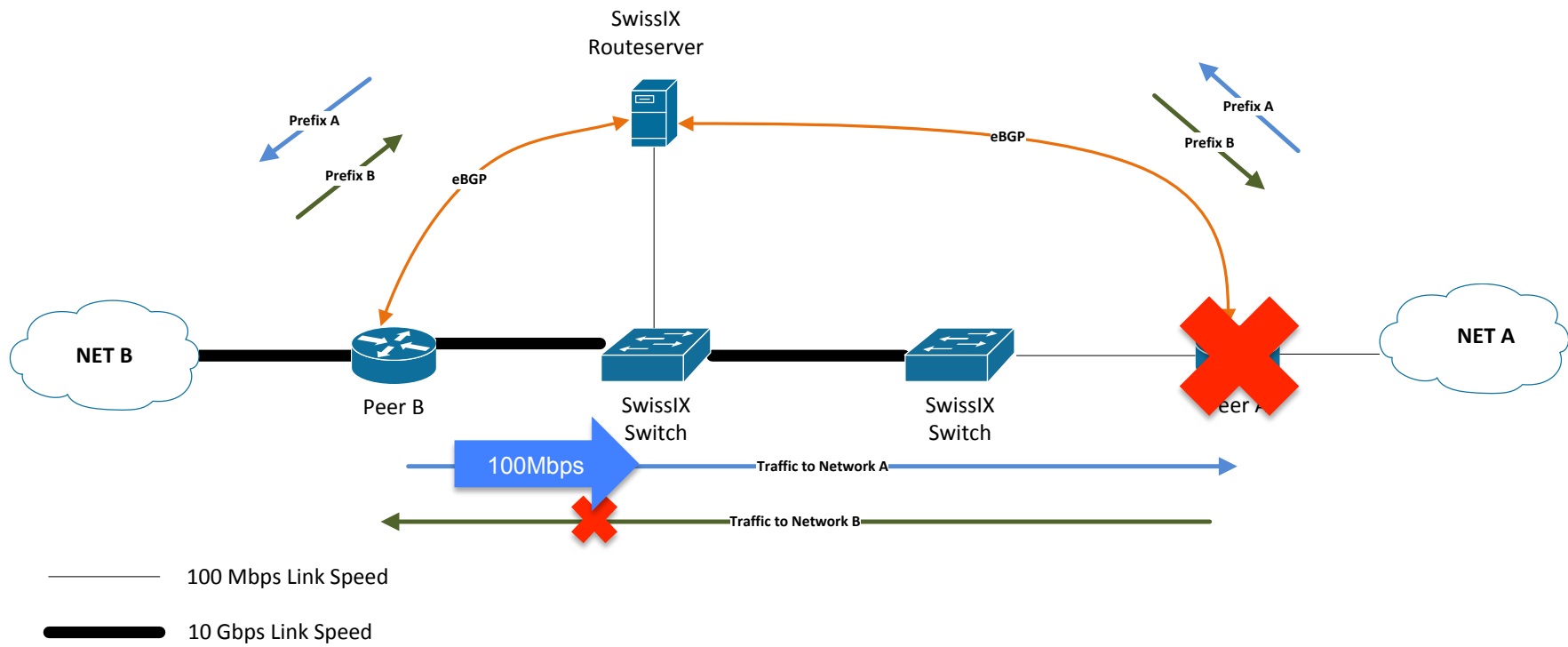
## Unknown Unicast Flooding

and how we discovered and fixed this issue plus  
prevent future occurrences







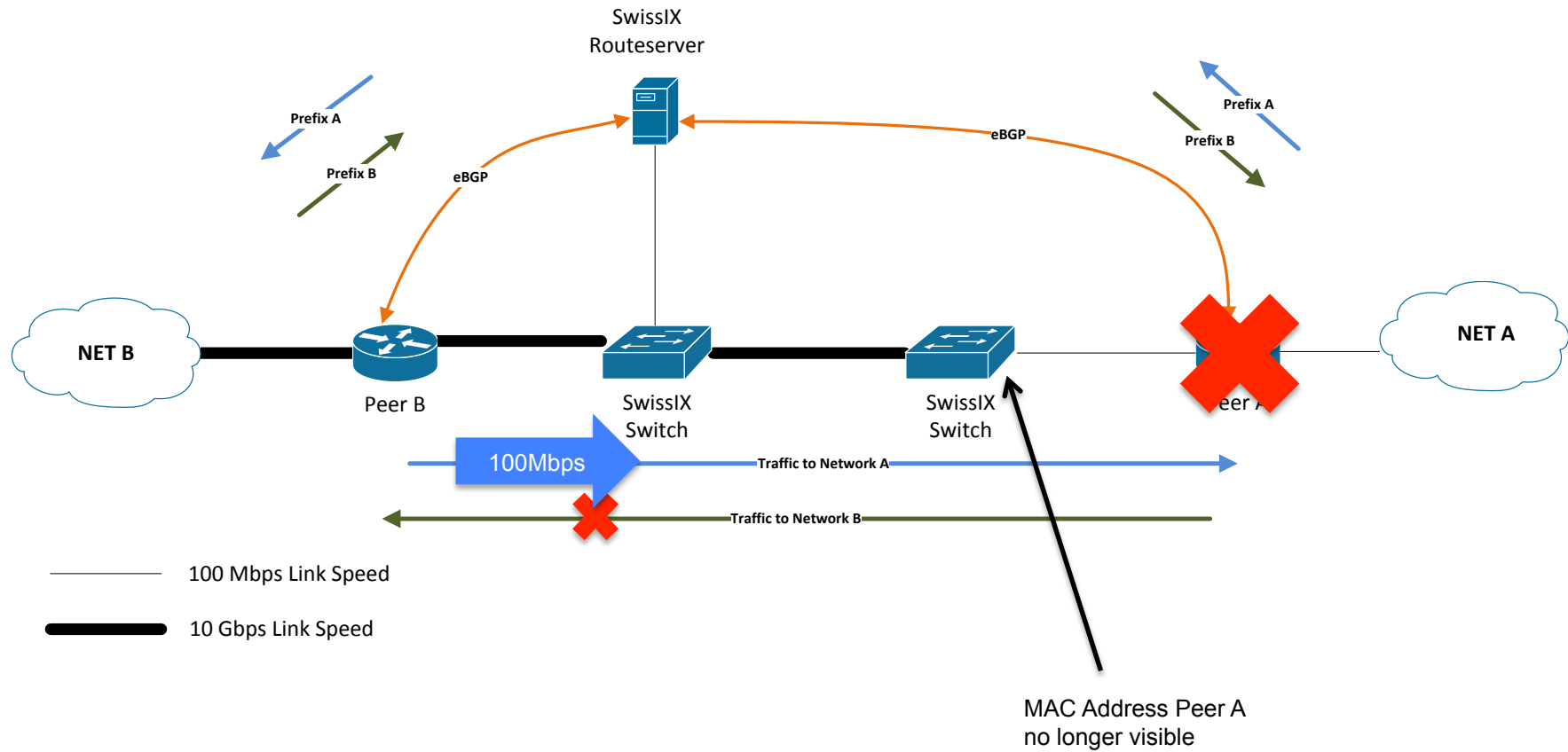




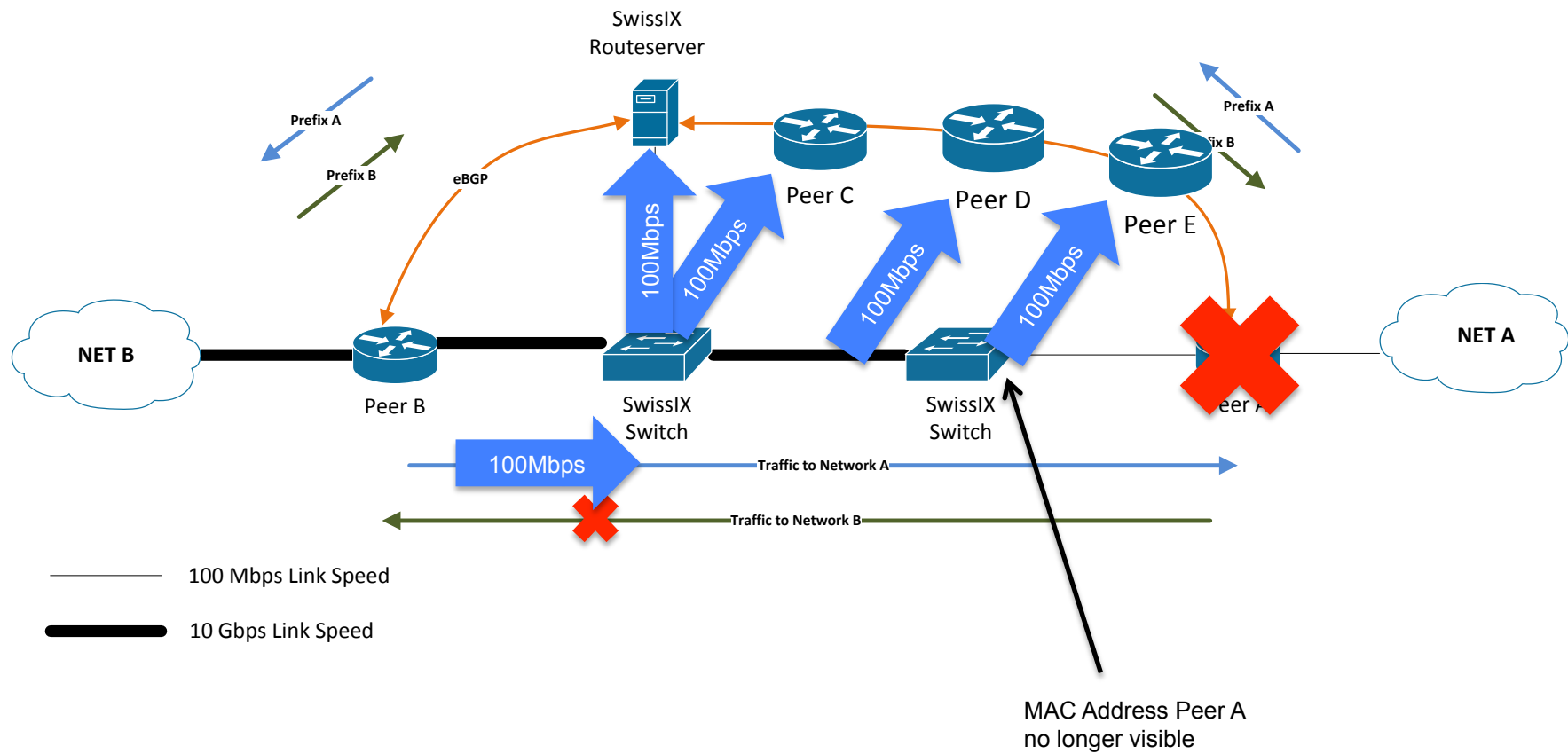
## What is happening to traffic originated by Peer B?

TCP: mostly will die pretty quick

UDP: hm... depends on the application?



**So Peer B will unicast 100 Mbps towards Peer A**  
 because of unknown destination unicast MAC address traffic gets flooded all over





- What can you do about it?
  - ⇒ Monitor your links
  - ⇒ Capacity planning
  
- What can the SwissIX do about it?
  - ⇒ Limit the max Amount of unknown Unicast traffic

# What's Next?





- We want every ASN
- Small company's do attract CDN's
- We will add more capacity to the backbone
- Ensure IX health