



IPv6 in AMS-IX

Maksym Tulyuk, maksym.tulyuk@ams-ix.net
ENOG 7, Moscow, 27/05/2014

AMS-IX and IPv6

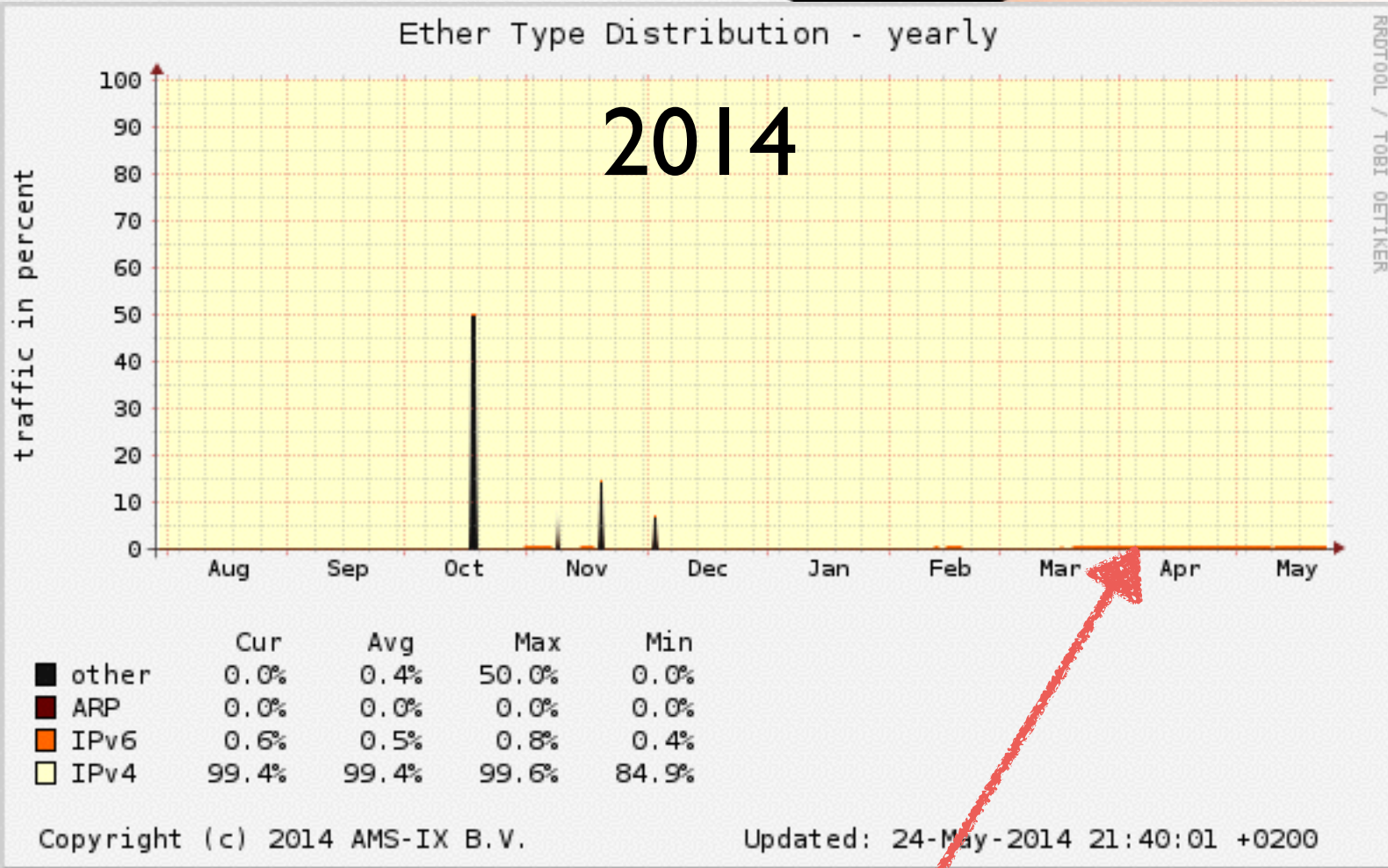
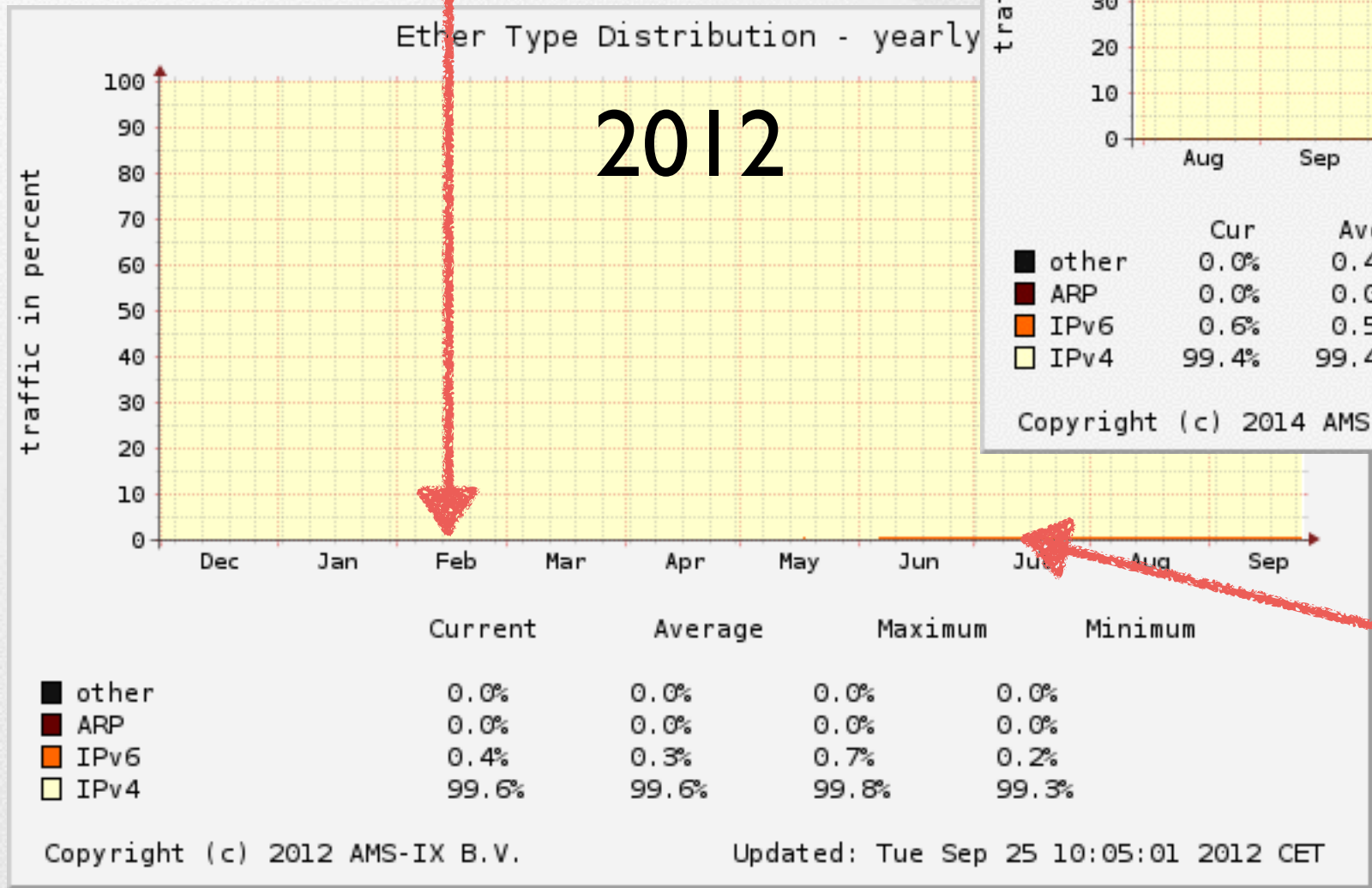


- AMS-IX is IPv6 agnostic because we forward **Ethernet frames**
- However we must provide an IP address for each member
- IPv6 network 2001:7f8:1::/48 for the Peering VLAN is available since **2001**

IPv6 traffic from 2001



Traffic until IPv6
Launch Day

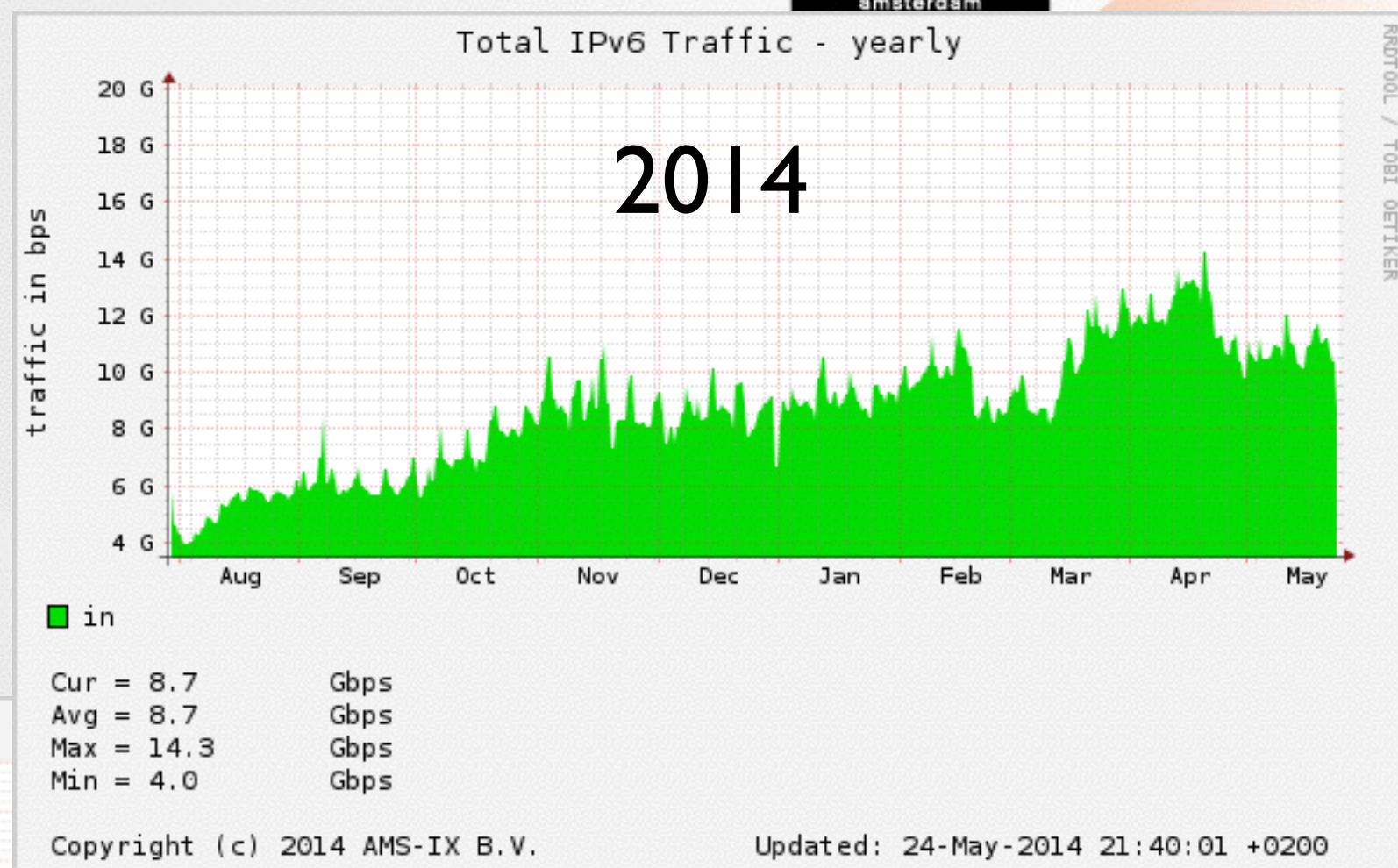
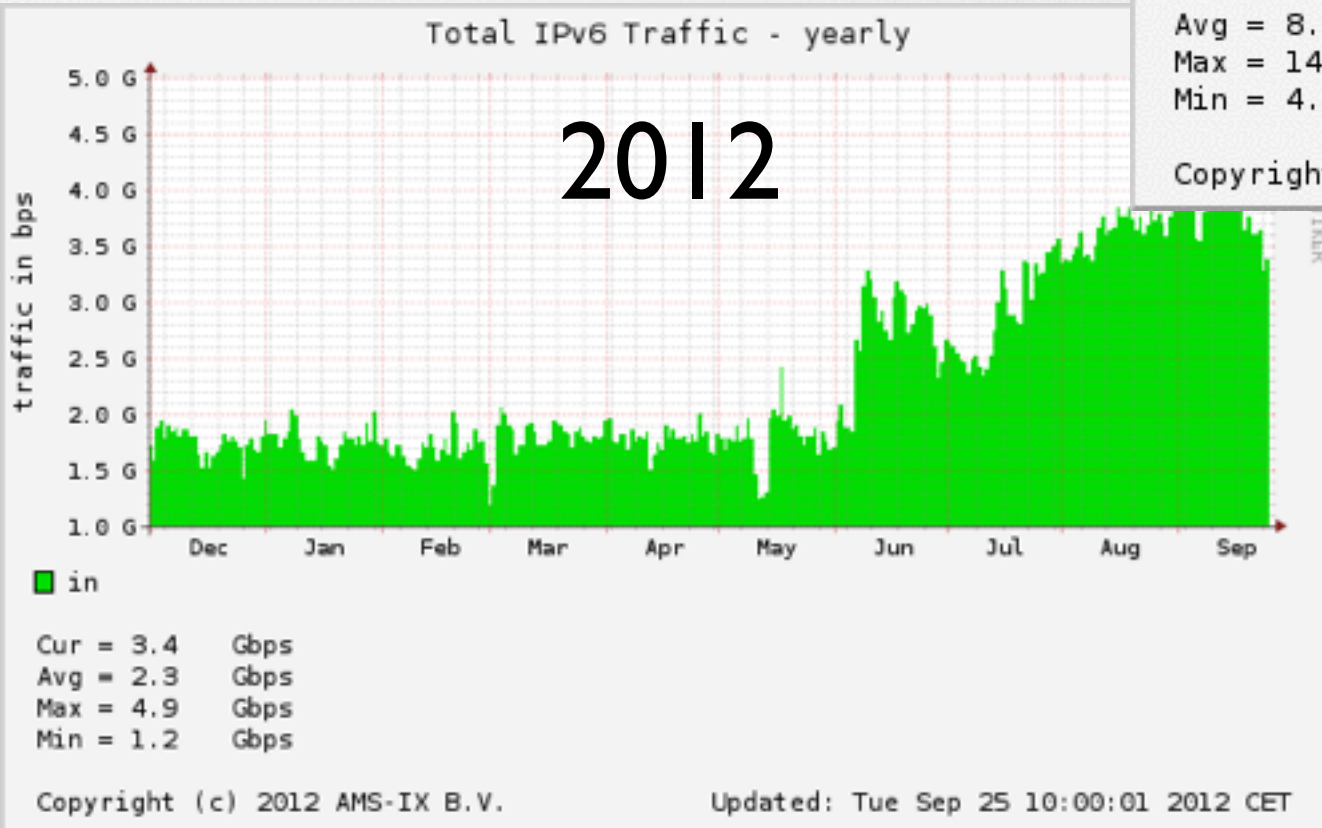


Traffic after IPv6
Launch

<https://ams-ix.net/technical/statistics/sflow-stats/ether-type>

IPv6 traffic from 2012

378% growth

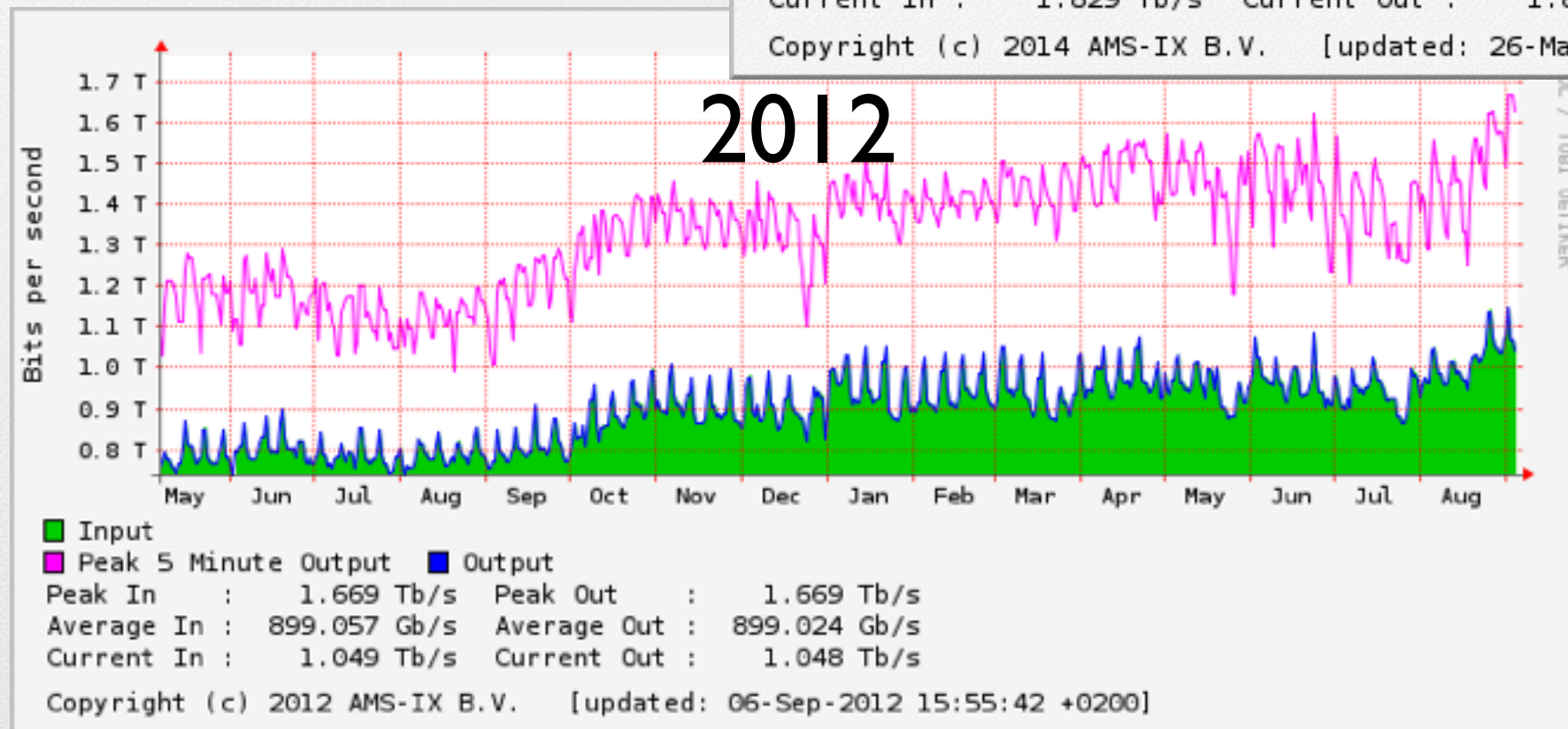
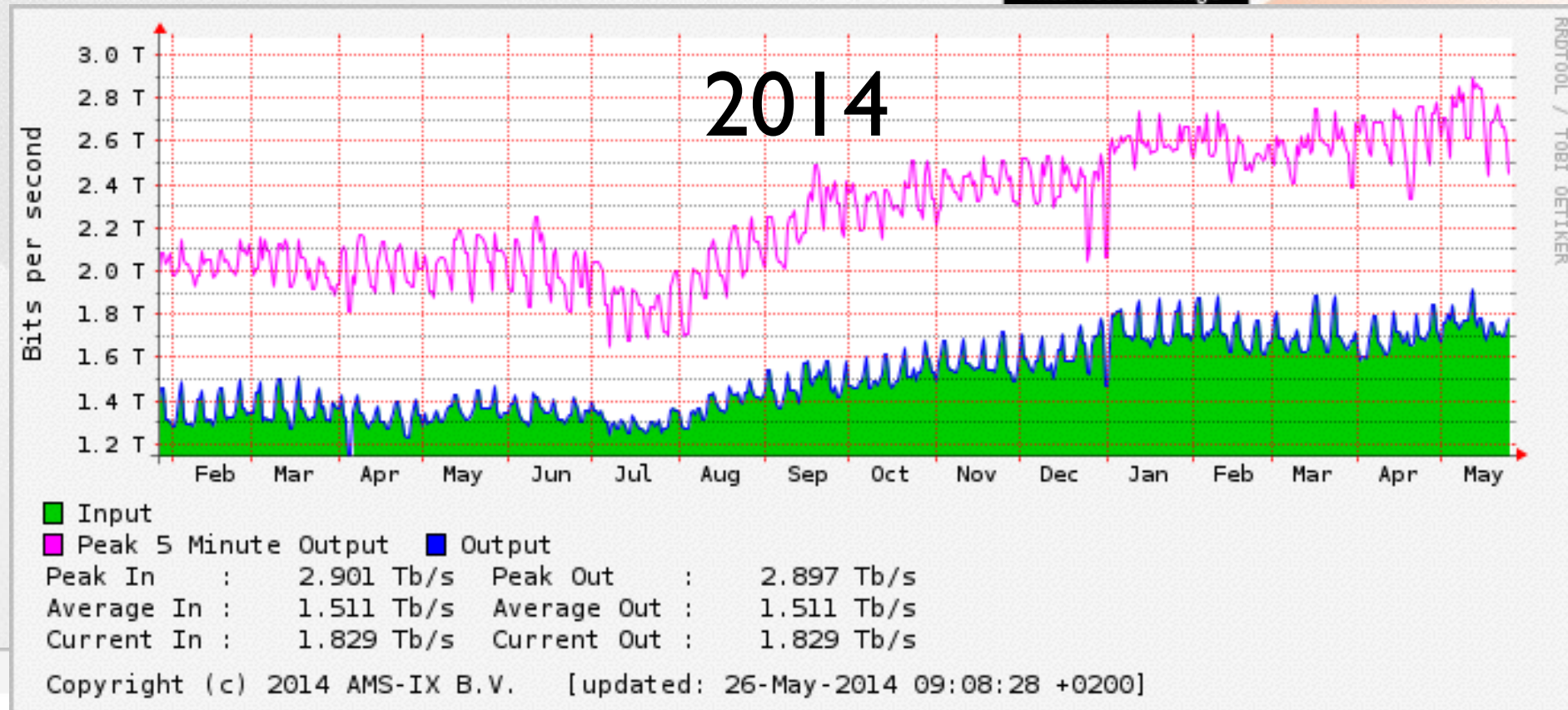


<https://ams-ix.net/technical/statistics/sflow-stats/ipv6-traffic>

IPv4 traffic in 2012 and 2014



60% growth

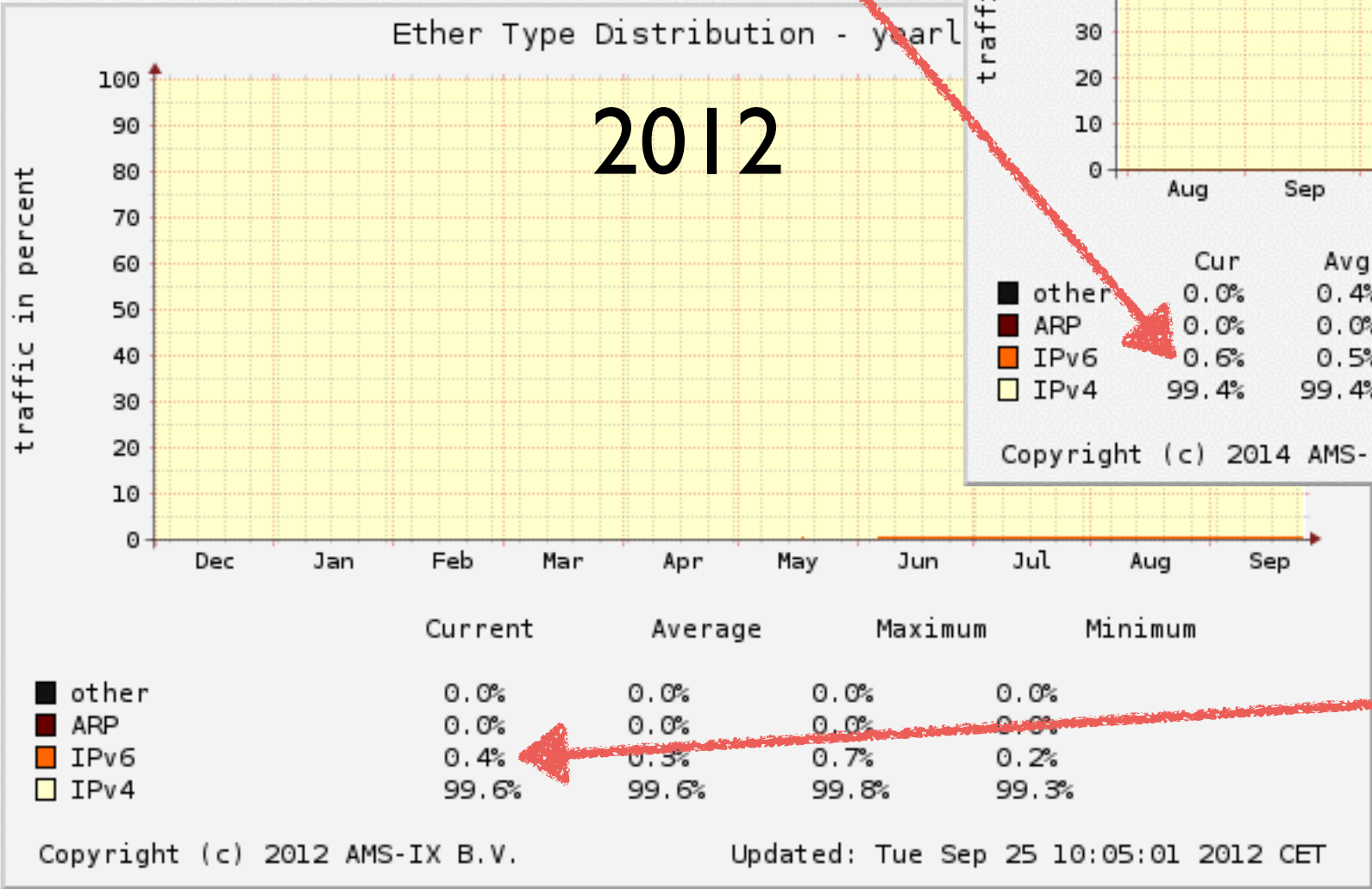
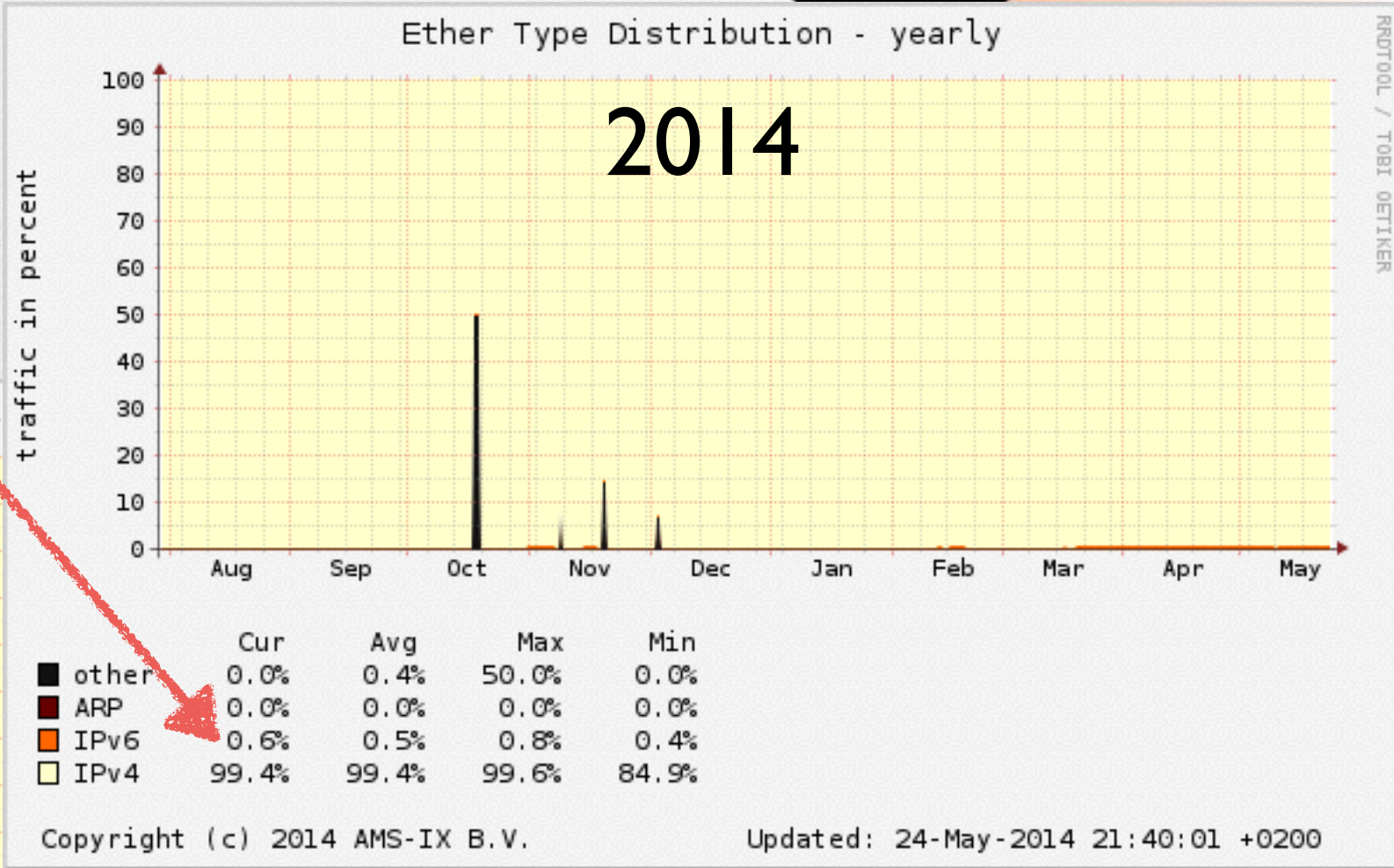


<https://ams-ix.net/technical/statistics>

Growth IPv6 traffic



0.6% from all traffic



0.4% from all traffic

<https://ams-ix.net/technical/statistics/sflow-stats/ipv6-traffic>

Statistics from route-servers

Summary

Routeserver1	IPv4	IPv6
Peers Total	603	460
Peers Active	41	42
Peers Established	562	418
Prefixes Received	132816	14761
Prefixes Send-out	92672	10688

75% adoption

Routeserver2	IPv4	IPv6
Peers Total	603	460
Peers Active	38	42
Peers Established	563	416
Prefixes Received	137736	14956
Prefixes Send-out	92695	10783

<https://ams-ix.net/technical/statistics/route-server-stats>

Statistics on local statistics

21 (80%) Russian customers have IPv6 address

Customer's origin

NL	165	25%
US	76	11.5
GB	63	9.6%
DE	54	8.2%
FR	48	7.3%
IT	31	4.7%
RU	26	3.9%

Summary



- IPv6 traffic is growing
- If you have no IPv6 address yet, ask it



Questions?

Maksym Tulyuk, maksym.tulyuk@ams-ix.net
ENOG 7, Moscow, 27/05/2014