

PLIX presentation PLNOG2

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It was supposed to be a technical presentation. However there's so much to tell about, that I've decided to make some marketing bull..it at the beginning.

Agenda:

1. What is PLIX?
2. Where the hell it is?
3. Why should you take a look at it?
4. How do we do it?
5. Who stands behind it?

What is PLIX?

Some history:

1. 1995 - the first IXP in Poland/Warsaw (GIX)
- NASK & GTS
2. 2000 - the second IXP in Poland/Warsaw
(WIX) - ASTER
3. 2006 - the third IXP in Poland (PLIX)
4. In the meantime - small exchanges came up
(LIX - Łódź, GIX - Gdańsk, KIX - Cracow,
WRIX - Wrocław)



What is PLIX?

PLIX is currently the biggest IXP in Poland.

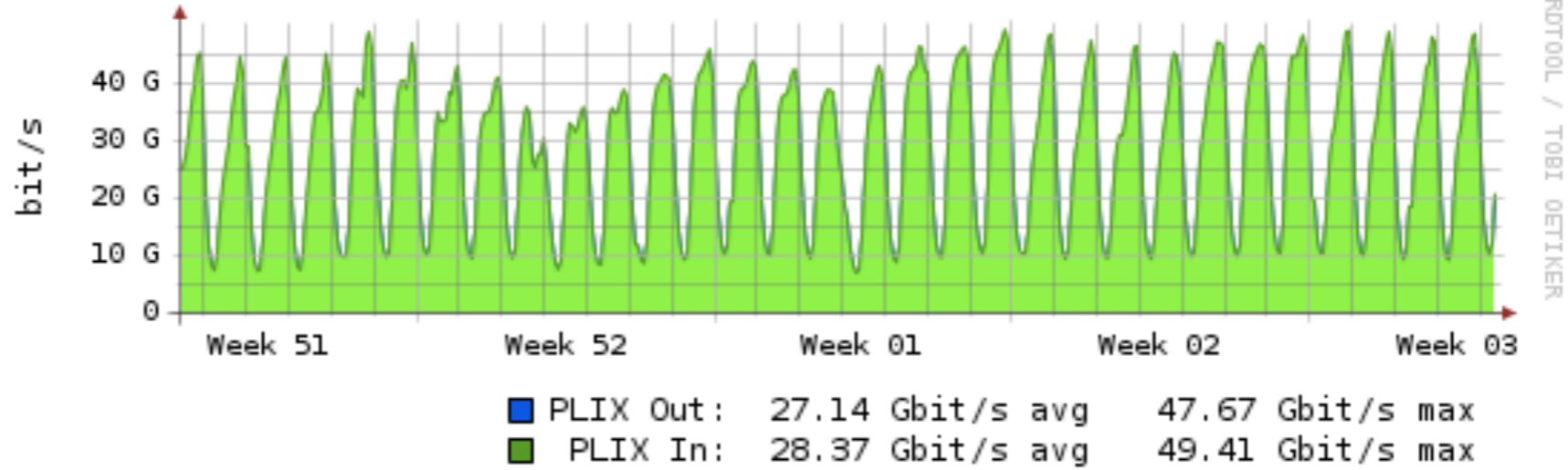
Polish law does not allow to create association which would be the owner of any company (cannot perform any economic activities).

That's why PLIX is Ltd. company owned by three people:

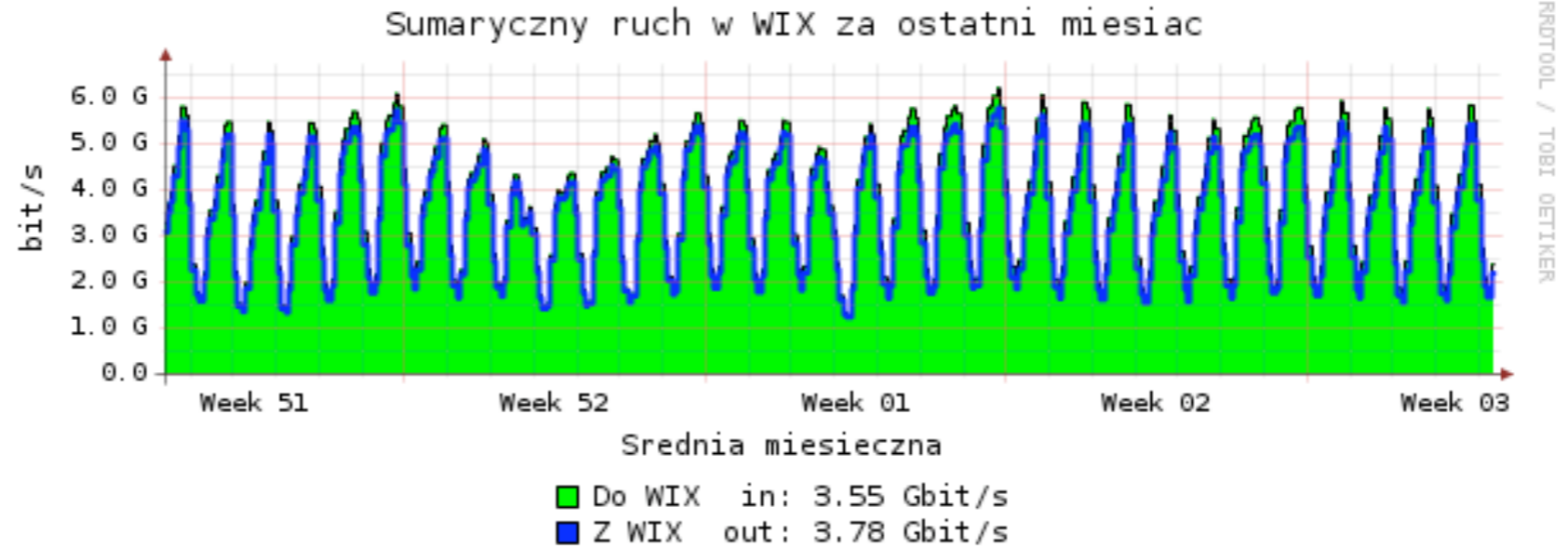
- 1) me
- 2) myself
- 3) I
;-)

What is PLIX?

PLIX



WIX
Warsaw
Internet
eXchange





What is PLIX?

PLIX in a pill:

~90 Members

~200 active ports

~50Gbps mainly polish traffic

- only 1Gbps & 10Gbps ports

- 3 locations in Warsaw



Where the hell it is?

Some facts about Poland:

1. Population: 38 million
2. Area: 312.679 sq km
3. Currency: Polish Zloty (yes, we still do not have Euro, though it is planned for 2012 - UEFA Euro2012 :-))
4. Internet Access: 4 million in 2006, 7.8 million at the end of 2007
5. The biggest polish network: France Telecom
Poland^z^z^z^z^z^z^z^z^z^z Polish Telecom
(42% of the market)

Why should you look at it?

1. 21% ratio of internet access
2. 87% increase in internet access in one year
3. still growing
4. ~3 years from start and PLIX has 50Gbps of traffic now and ~90 members which gives the 10th place in Europe

How do we do it?

1. We are neutral & professional IXP.
2. We use one stable vendor of switches.
3. We help our members to create correct configuration for PLIX Public VLAN.
4. We assume route-servers are one of the main services our members wish to get.
5. We monitor as much as we can.
6. We provide more services than just a possibility to peer with everyone.
7. We run 24/7 NOC working on-shifts 365 days a year.

How do we do it?

1. We use Force10 switches.

Polish networks are almost always connected to PLIX via switch extending L2 to ISP's location. We have eyeball networks trying to connect via Planet switch, with whole their network gathered into one segment, to PLIX public vlan ;-)

That's why we chose one vendor in every location we have switches.

2. We help our members

- transparent-as route-servers (IOS & no bgp enforce-first-as issue)
- linux boxes sending arp announces from different vlans to PLIX Public VLAN
(`net.ipv4.conf.default.arp_announce=2`)
- arpwatch watching changes in Public VLAN
- looking-glass service

3. route-servers

- 2 OpenBGD transparent-as route-servers for v4
- 1 Quagga for v6
- support for communities
- filtration using RIPE AS-MACROs
- PLIX provides WHOIS service with NRTM mirror of RIPEdb for PLIX members
- support for one-click installation with previous checking whole configuration in quarantine VLAN

4. Monitoring

- BGP session states on route-servers
- interfaces on the switches (up/down)
- ping to BGP neighbors
- smokeping to some hosts in members network
- port saturation
- 24/7/365 NOC engineers on-shifts looking at big screens with all of these

5. Services

- transparent-as route-servers
- IPv6 support
- free NEWSFEED for all members
- Verisign RIRS servers
- LG service
- WHOIS service
- IPTV multicast access

5. Planned services

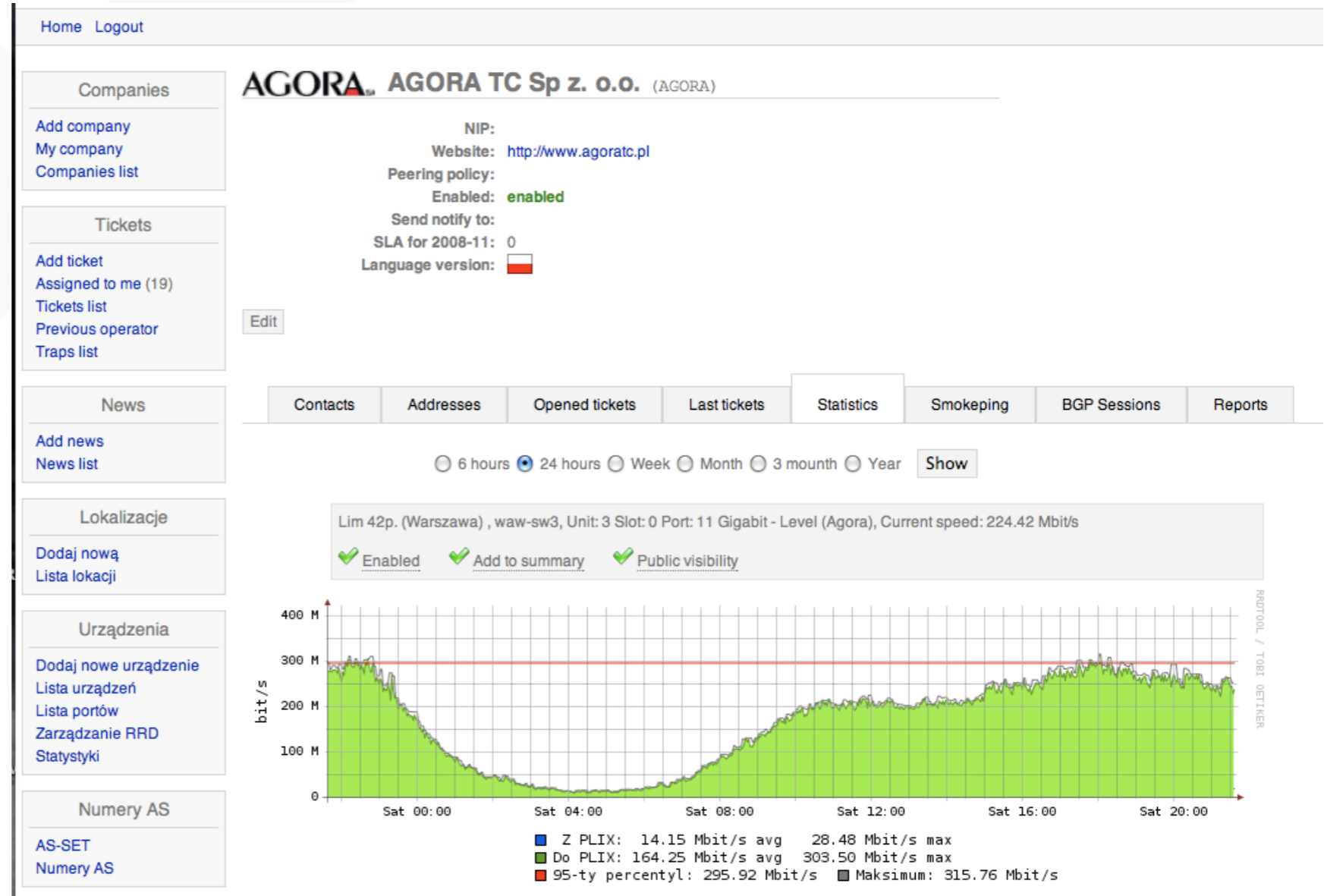
- more and more 10GE ports
- Google Cache (2 days ago we've finally received Google servers)
- Akamai
- v6 webpage
- transit to v6 world
- tunnelbroker for whole Polish IPv6 networks
- new data center & NOC on 13th floor in LIM
- waiting for more content and new data centers :)

6. PLIX NOC

- monitors all events on wide screens
- 24/7/365 on-shifts
- contact with members via mail, phone, sms
- remote-hands 24/7
- senior engineers response time: 30mins at night in case NOC engineers need support

How do we do it?

my.plix
 unique system
 for management
 and maintaining
PLIX





Who stands behind it?

PLIX staff is 10 people now - you probably saw all of them during yesterday evening party.

We are open to any new ideas you have.
We are young IXP with growing number of traffic, switches, members and services.

We do our best and our members appreciate that :)

Questions?

drop me a line: s.biernacki@plix.pl