

UA-IX: exit from the turbulence

Vadim Garbuz
Director, Business Development

ENOG 4

23.10.2012



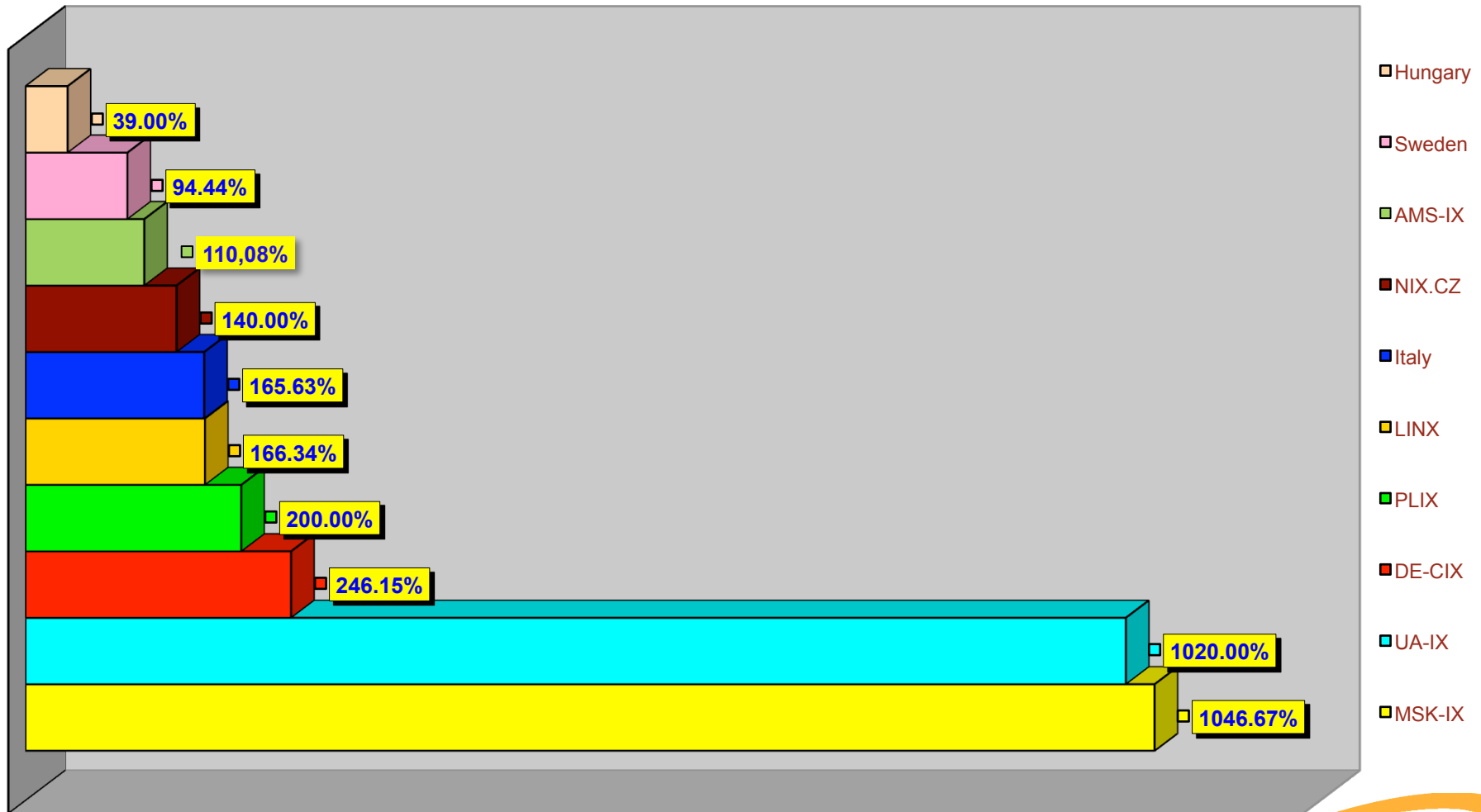
UA-IX Brief History and Present State

- **2000 – UA-IX has been founded at UkrSat site**
- **2001 – New site DG at Leontovicha 9**
- **2003 – New site TSUA at Leontovicha 9**
- **2004 – 1GE member ports available**
- **2007 – First Extreme Networks BlackDiamond 8810 installed**
- **2007 – First 10GE member connection**
- **2009 – New site Mirohost at Gaydara 50**
- **2011 – IPV6 implemented and fully supported**
- **2011 – F-ROOT and I-ROOT DNS servers installed**
- **September 2012:**
 - **Members: 122**
 - **Ports: 182**
 - **Traffic: 282 Gbps**

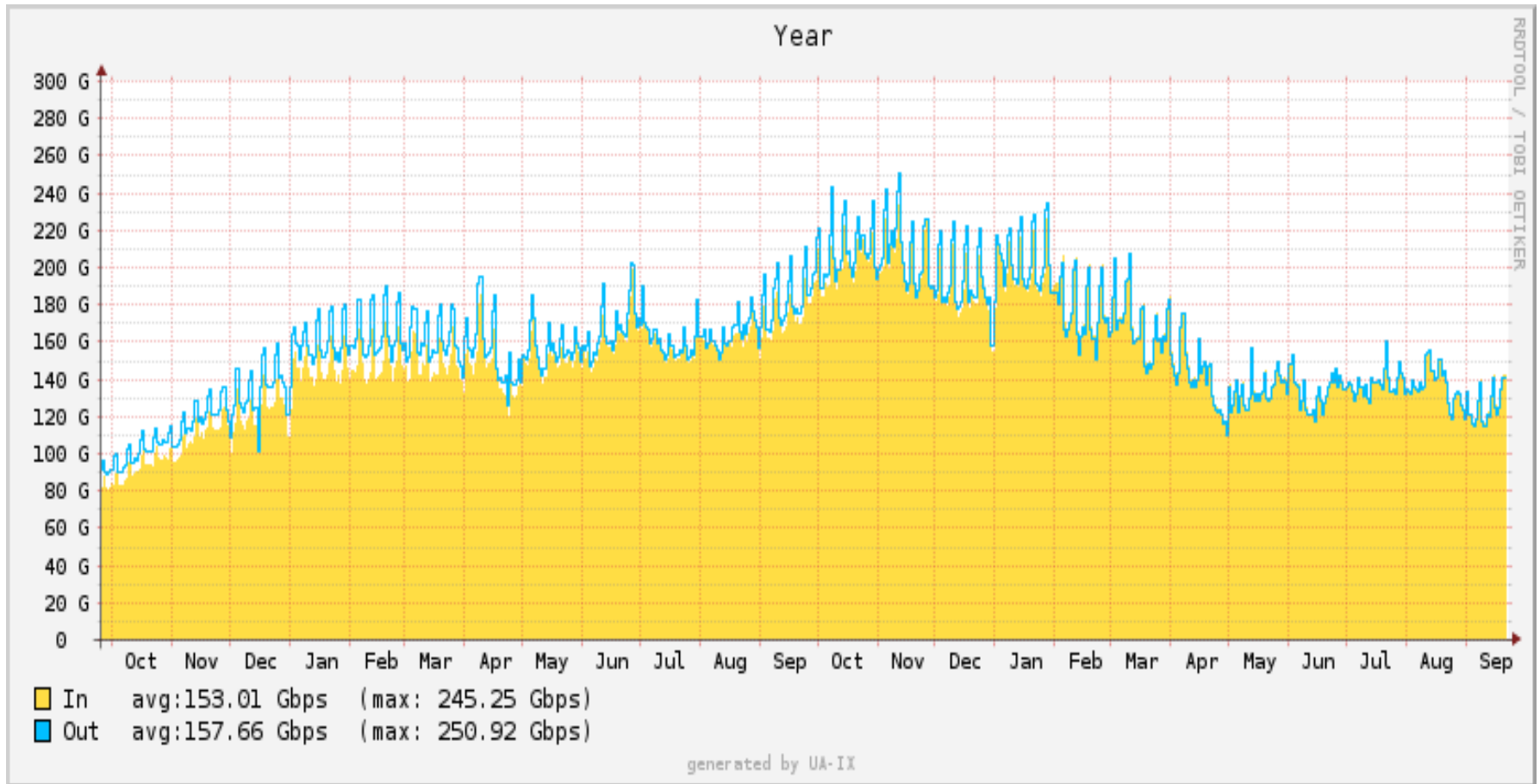
UA-IX key features

- Strong L2-L4 security (1 MAC per port, prefix based BGP filters, protected ARP, RFC-1918 traffic filtered out)
- Strict syntax compliance of all records in RIPE database (main requirement to join)
- **Mandatory IPv4 and optional IPv6 peering with two Cisco ASR route-servers (RS)**
- **All networks of member's AS must be announced**
- **All networks from RS must be received**
- **No private peering**

The rate of UA-IX traffic growth (2009 – 2011)



UA-IX Traffic Decrease Nov 2011 – Sep 2012



UA-IX Breakthrough

01 OCTOBER 2012

- New UA-IX design implemented
- Two Extreme Networks Black Diamond X8 installed
- 240 Gbps (6x40GE) L9-G50 interconnection launched
- First member's 40GE port connected

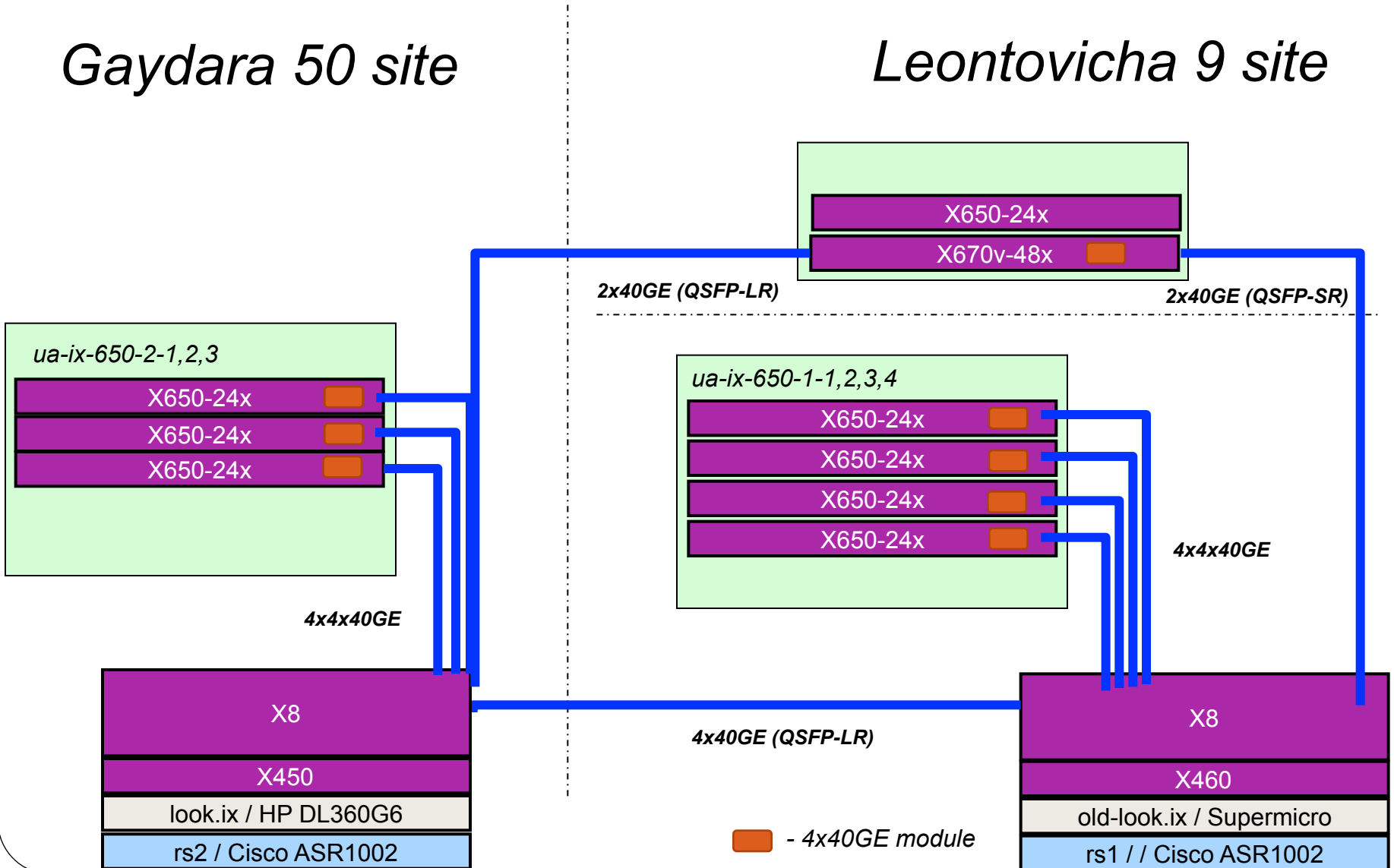


New UA-IX Design



Gaydara 50 site

Leontovicha 9 site



Outcomes

- **Scalability**
- ✓ **100 GE Ready (beginning of Y2013, depends on CFP2 modules market launch)**
- ✓ **TRILL-ready (end of Y2012 expected)**
- **No more bottlenecks**
 - **Interconnect between sites - 240 Gbps (up to 640 Gbps on 40 GE ports)**
 - **Core system performance - 20.48 Tbps (increased more than 50 times)**
- **Costs saving**
Cost-effective Summit X650 and X670 continue to be used to enable 10GE member ports
- **Empowerment**
 - **New high-speed member ports:**
 - **40GE - 01 October 2012**
 - **100GE - beginning of 2013**
- **Distributed infrastructure with no single point of failure**

UA-IX Mission

- Мы – нейтральная сеть обмена интернет-сервисами
- Мы обеспечиваем наилучшие условия и самые современные технологии взаимодействия участников рынка Интернет
- Мы даем возможность нашим Участникам увеличивать свою ценность
- Мы открыты для всех, кто разделяет наши принципы
- Мы вносим вклад в развитие информационного общества в Украине, сокращая расстояния Интернет-коммуникаций и обеспечивая возможности обмена данными
- We are the neutral Internet services exchange network.
- We provide the best conditions and the latest technologies for the Internet market participants interaction.
- We give the opportunity to improve their value to our Members
- We are open to everyone who shares our principles
- We contribute to the development of the information society in Ukraine by reducing distances of Internet communications and providing opportunities for data exchange



Thank you!

Vadim Garbuz
Director, Business Development

develop@ua-ix.net.ua

+380-67-5022870

+380-50-3520122