

The London Internet Exchange - a presentation to the France-IX 2016 annual meeting

**John Souter
Chief Executive Officer
September 2016**

My presentation topics



**France-IX and LINX,
working together**



The future of IXPs?

Some remarks about France-IX



Working together

France-IX and LINX,
working together

An update on LINX



LINX

VISION

WHAT OUR MEMBERS WANT

AN OPEN COMMUNITY OF
NETWORK OPERATORS

INTERCONNECTING

TO MAINTAIN AND GROW AN
“INTERNET FOR EVERYONE”

ALL WITHOUT INTERFERENCE



LINX

WHAT LINX IS FOR **MISSION**

TO PROVIDE WORLD-LEADING INTERNET EXCHANGE POINTS FOR THE MUTUAL BENEFIT OF MEMBERS, THAT PROVIDE INCREASING PERFORMANCE AND VALUE FOR MEMBERS

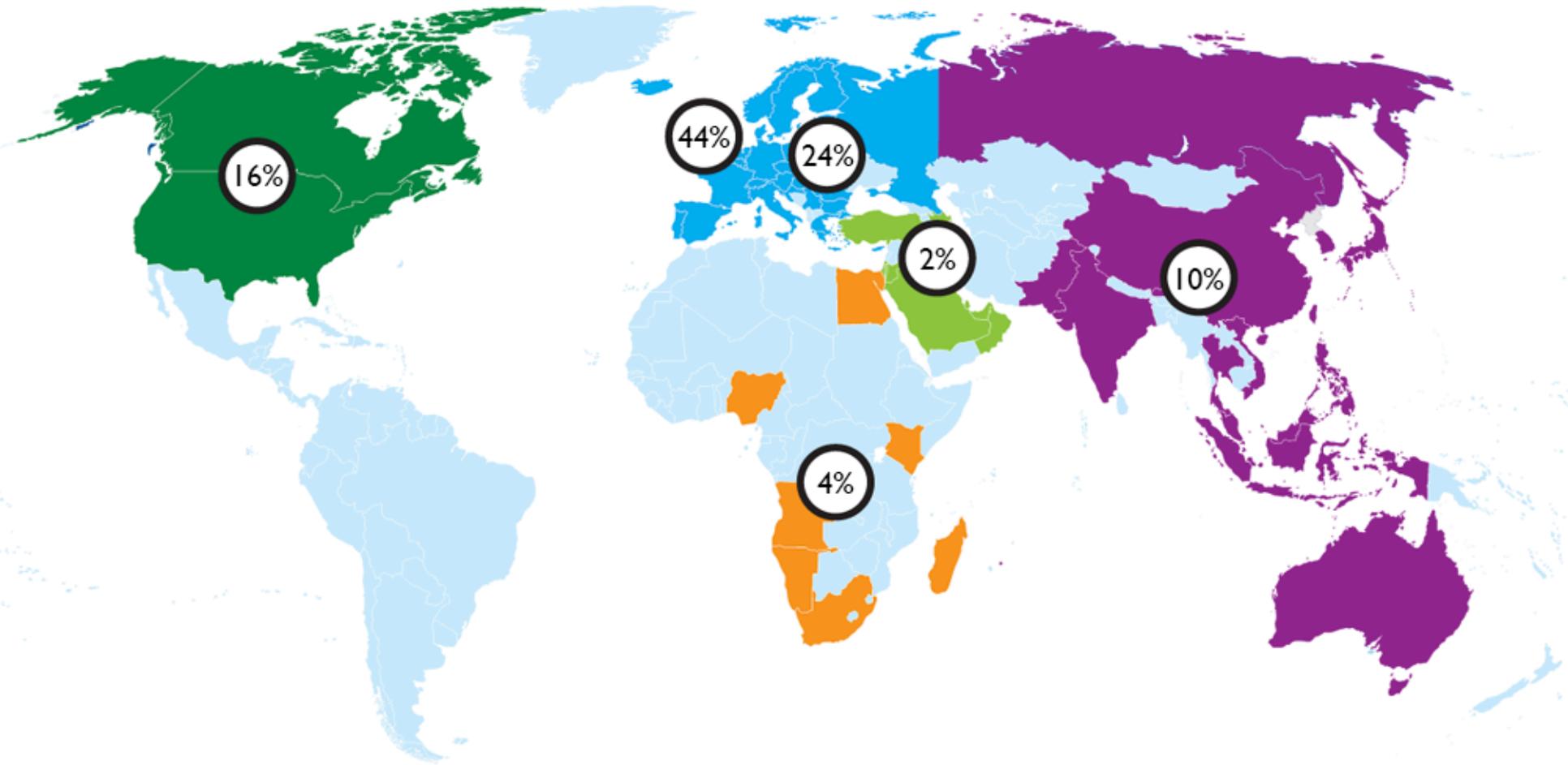
TO REPRESENT THE INTERESTS OF ITS MEMBERS IN MATTERS OF PUBLIC INTEREST

TO PROMOTE THE INTERESTS OF ITS MEMBERS

...ALL AS A MEMBERSHIP ORGANISATION



LINX membership reach



LINX Prices

- We just announced a big price cut:
 - 10% reduction in LON1 prices
 - 40% reduction in other port prices
- New price list looks like this:

Port size	LON1 London	LON2 London	IXManchester	IXScotland & IXCardiff	LINX NoVA
1GE	No charge	No charge	No charge	No charge	No charge
10GE	GBP £834	GBP £424	GBP £424	No charge	USD \$1000
100GE	GBP £5288	GBP £2679	GBP £2679	POA	POA

LINX Public Affairs



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About Public Affairs



Posted by Sam Frances on Tuesday, September 6th, 2016 at 15:29

Warner Brothers reports own site to Google as pirate site

The Warner Brothers film studio has asked Google to de-list several pages from the warnerbros.com website, in an incident which highlights the shortcomings of the DMCA notice and takedown system and other similar systems around the world. The report was made by Vobile, an anti-piracy monitoring...

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05 September 2016

OSCE issues communiqué on free expression and counter-terrorism

Posted by Sam Frances

The Organisation for Security and Cooperation in Europe (OSCE), the world's largest security-focused intergovernmental organisation, has published a communiqué "on free expression and the fight against terrorism". The main focus of the communiqué is to urge participating states to avoid

26 August 2016

Radicalisation: Home Affairs Committee report targets social media companies

Posted by Sam Frances

Social media companies have come under criticism in a report on radicalisation published by the House of Commons Home Affairs Committee. The report accuses social media companies of "consciously failing to combat the use of their sites to promote

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LINX today

- One of the largest IXPs in the world
- Championing the mutual company IXP model
- Completely open, only technical/hygiene rules
- Some statistics:
 - >750 member ASNs
 - >16 Tb of connected capacity
 - 138 new applications in 2015; 95 already in 2016
 - Points of presence in eighteen sites in London, Manchester, Edinburgh, Cardiff and North Virginia
 - Offices in Peterborough & London, with ~60 staff

Some thoughts on the future

The future of IXPs?

IXPs and technology

- Three main themes emerged from our research
 1. Established, proprietary switch manufacturers (e.g. Cisco)
 2. Lower-cost Ethernet switch solutions, based on merchant silicon chipsets and proprietary NOS
 3. Disaggregated, bare metal switches or 'white-box', with independent NOS
- We consulted our members on this; feature set and cost to operate influenced our choice
- We have decided to migrate LON2 to a combination of switches from Edgecore Networks and software from IP Infusion– implementing EVPN over MPLS

IXPs and technology

- Our vision of the future features EVPN, offering benefits to the widest range of our members:
 - Multi-homed ports (appealing to our larger members)
 - Reduced flooding and broadcast/multicast (appealing to smaller members)
 - Predictable traffic behaviour (appealing to everyone)
- Full automation (to save on costs and make provisioning easier and quicker for everyone)
 - So LINX has invested in an in-house development team
- Watch this space!

IXPs and regional peering

- LINX has opened three UK regional peering sites
 - IXManchester is a beacon for what can be achieved!
- If we don't facilitate wider peering in the UK, who will?
 - (the UK is very, very London-centric)
- Where do we go from here?
 - Belfast is an obvious next location (currently under consideration)
 - But we will establish more IXPs, if and only if:
 - There is a local community of (network) interest
 - It makes sense to do it in the longer term (no profit motive!)
 - If the technical infrastructure makes it possible (data centres!)

Questions?

- I think you know where to find us 