

AMS-IX New Services

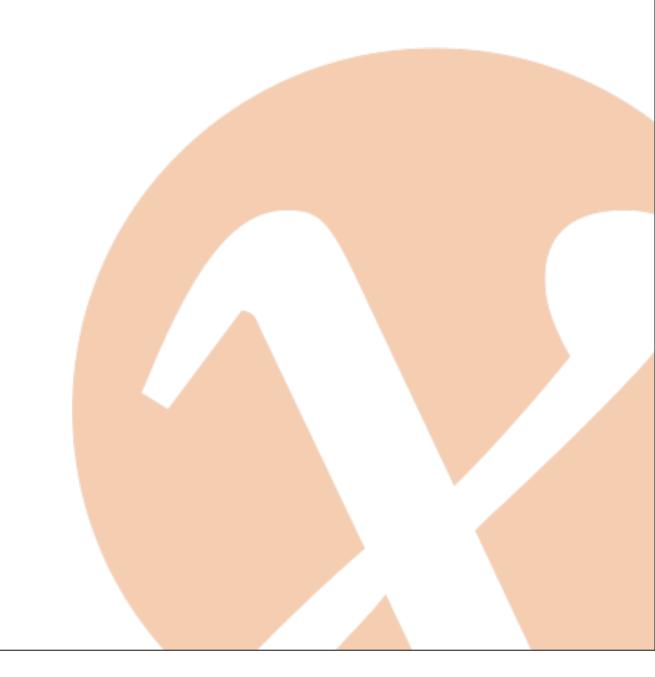
Membership Discussions, Surveys and Technology lead to new services

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Agenda

Discussions and Surveys



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Discussions and Surveys

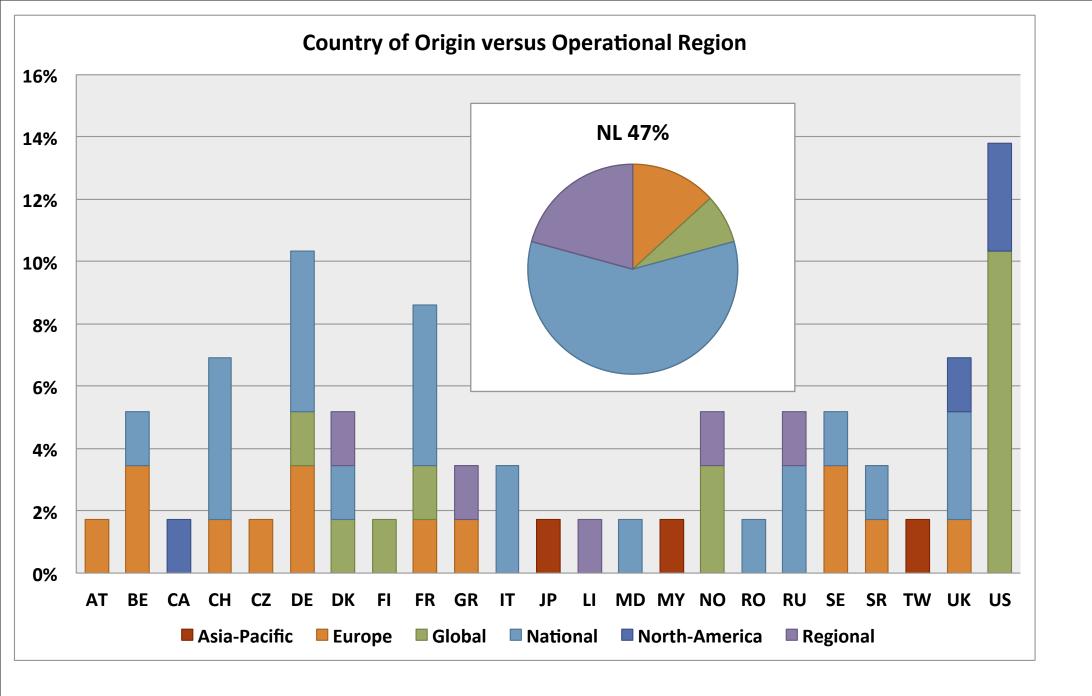
- New Services
 - Customers instead of members
 - ▶ I-IPX
 - SLAs
 - ▶ 100GE



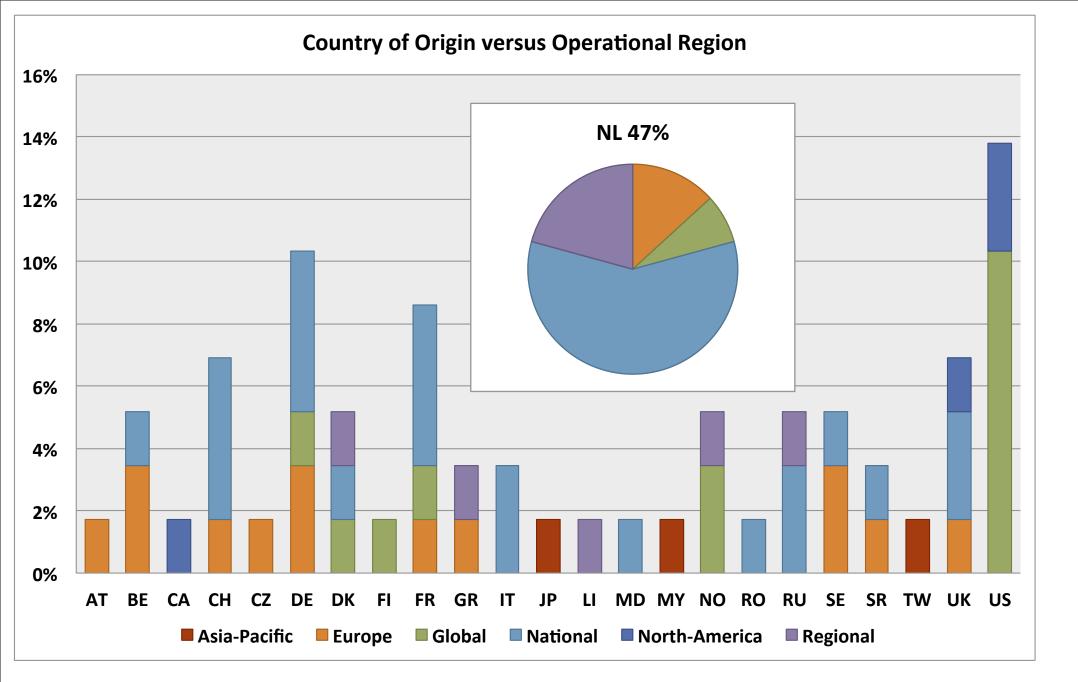
Member Input

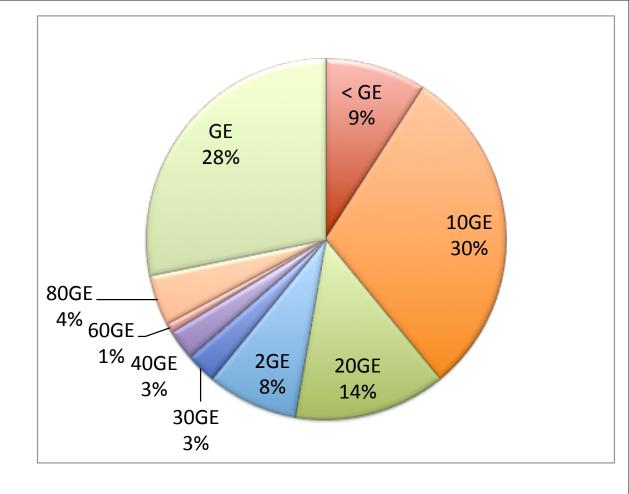
Discussions and Surveys

- 2010: Four AMS-IX general assembly meetings (instead of the usual two)
- November 2010 Survey to Organizational and Admin representatives of membership
- Februari 2011 survey to technical representatives of membership
- ▶ Both surveys over 25% response

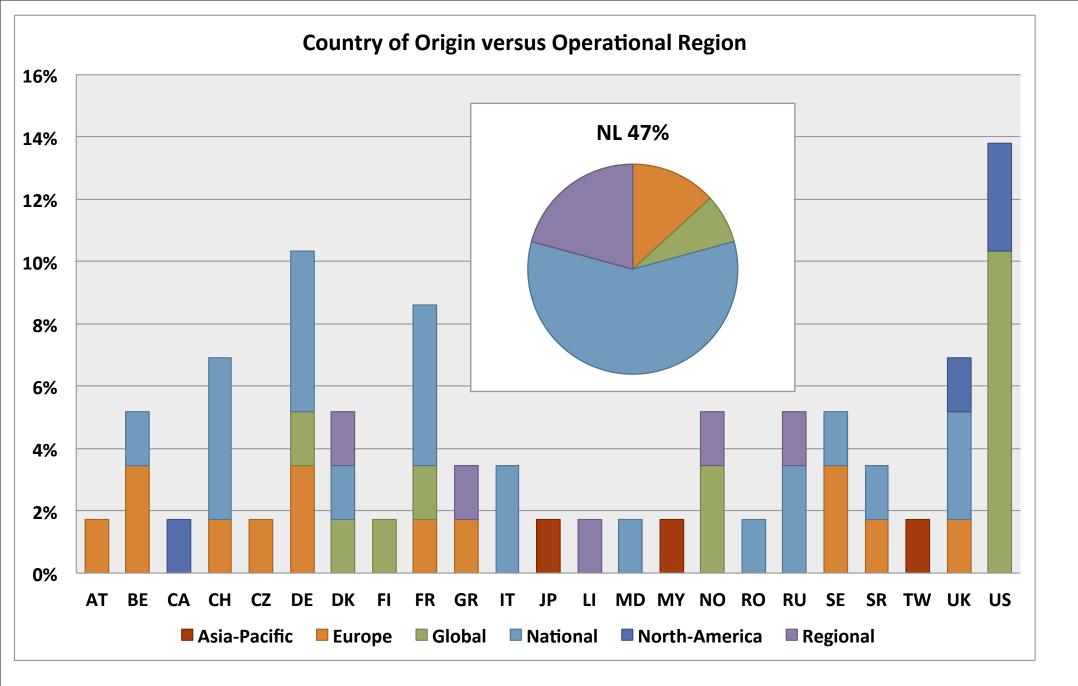


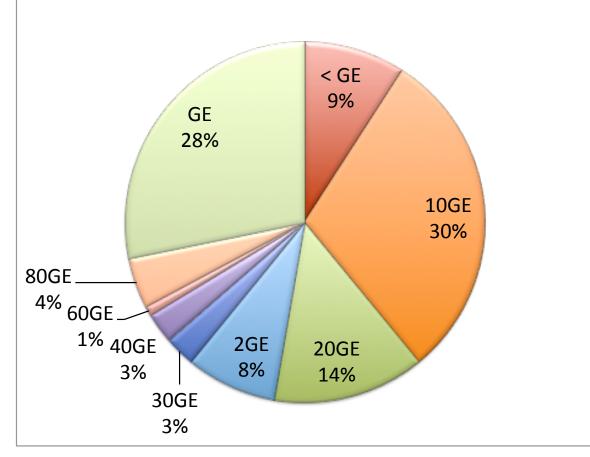
Survey Participants: 115 Technical Survey

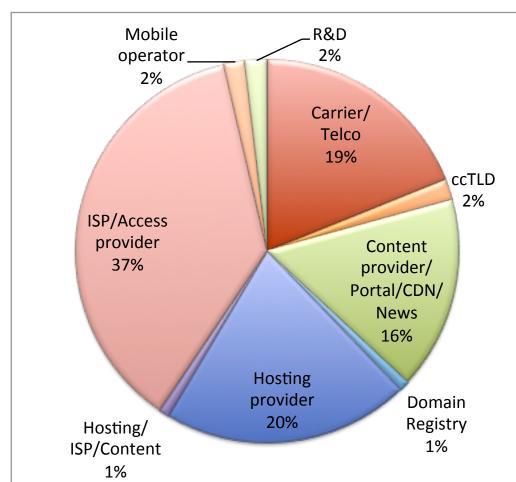




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Technical Survey

Members and or Customers

Result from discussion in GA

- Feedback from existing and potential members show that "membership" of association can be big hurdle to connect
- After discussion in GA meetings membership agreed to allow connections to the exchange by non association members
- Contract based on same terms and conditions
 - Customers contract does not include membership

SLAs

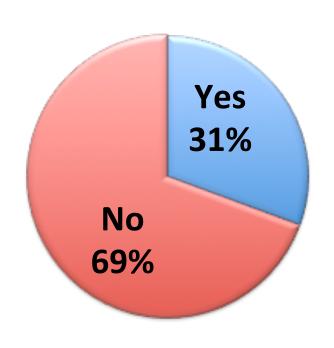
Initially addressed during GA to support I-IPX

Suggestion from Members: why not also support SLA on Internet Peering VLAN

Interest tested in members surveys

- ► An SLA is part of the I-IPX offer
- ▶ Discussion at GA showed general interest in SLA on AMS-IX connection

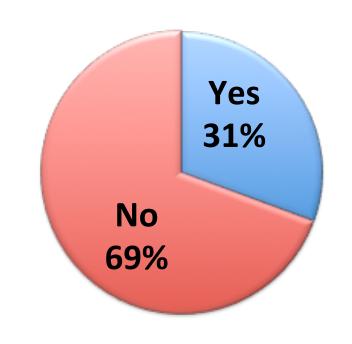




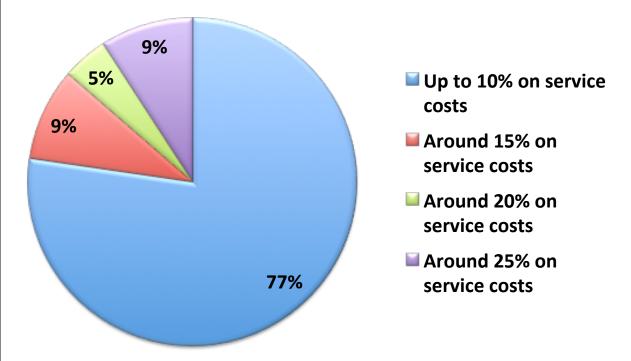
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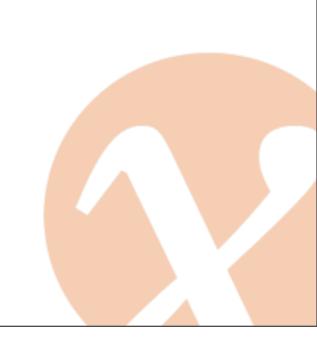


General November 2010 Survey Are you interested in an SLA?



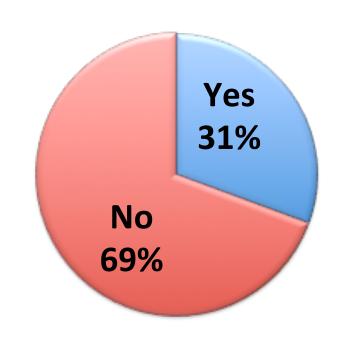
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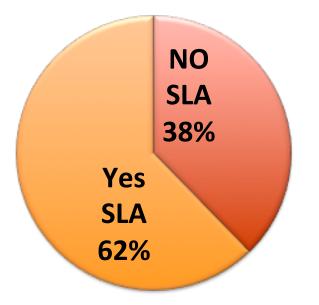


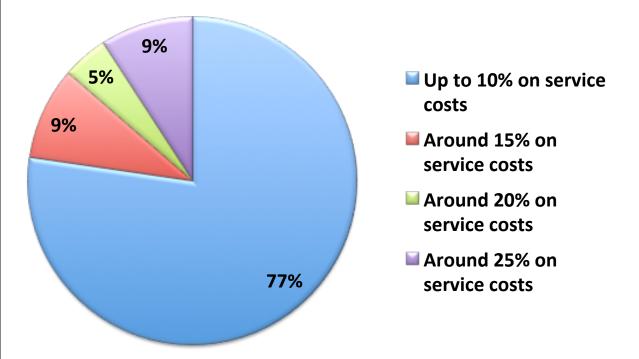
General November 2010 Survey Are you interested in an SLA?

Technical Februari 2011
Survey
Are you interested in an SLA?

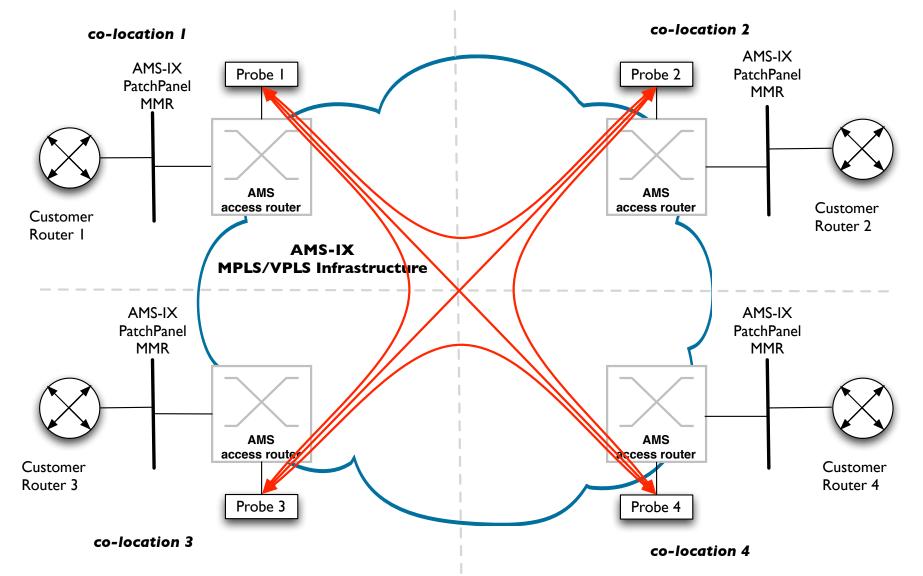


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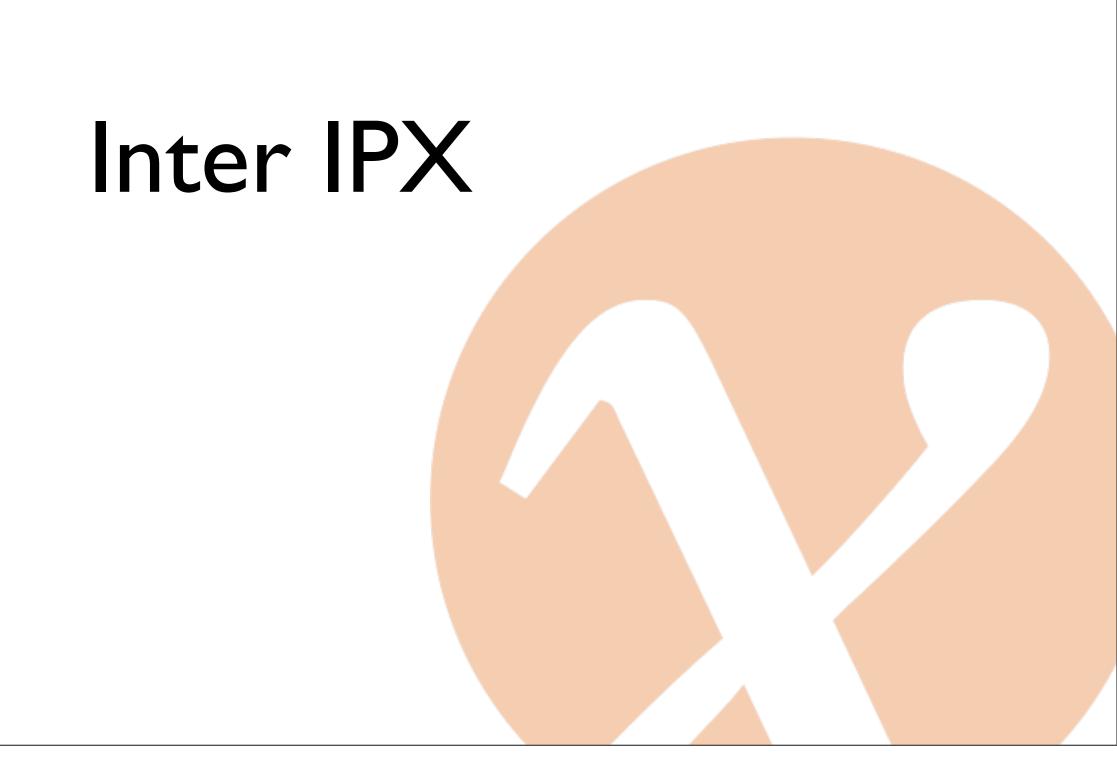
Standard SLA

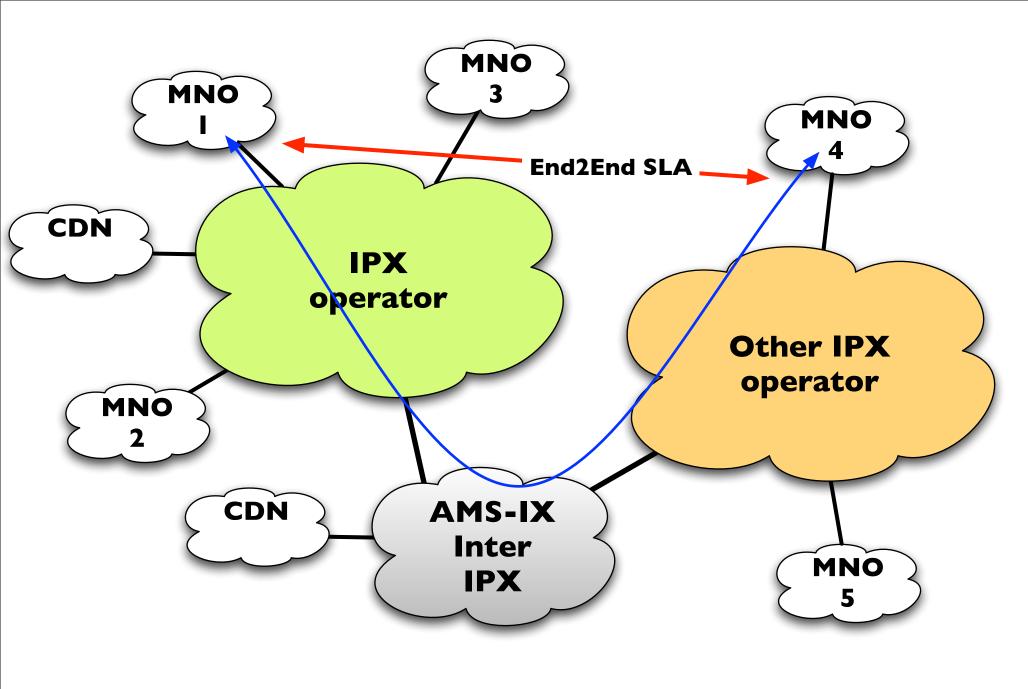
- Availability: 99.99% per month
 - Excludes announced maintenance
- *Packet Loss:* < 0.05%
- One way delay: < 500 micro seconds
- One way delay variation < 100 micro second

The three performance parameters are: average per hour in a 24 hour period

Implementation SLAs







- ▶ GSM standard (IR.34) for IP based services by MNO
- ▶ GRX model as a basis
 - Will be one of the services within the IPX environment
- General IP services, not only MNOs but also fixed line operators, CDNs etc.
- ▶ End to End SLA
 - Need to be supported by AMS-IX

MNO to MNO IP traffic, End to End SLAs Inter-IPX

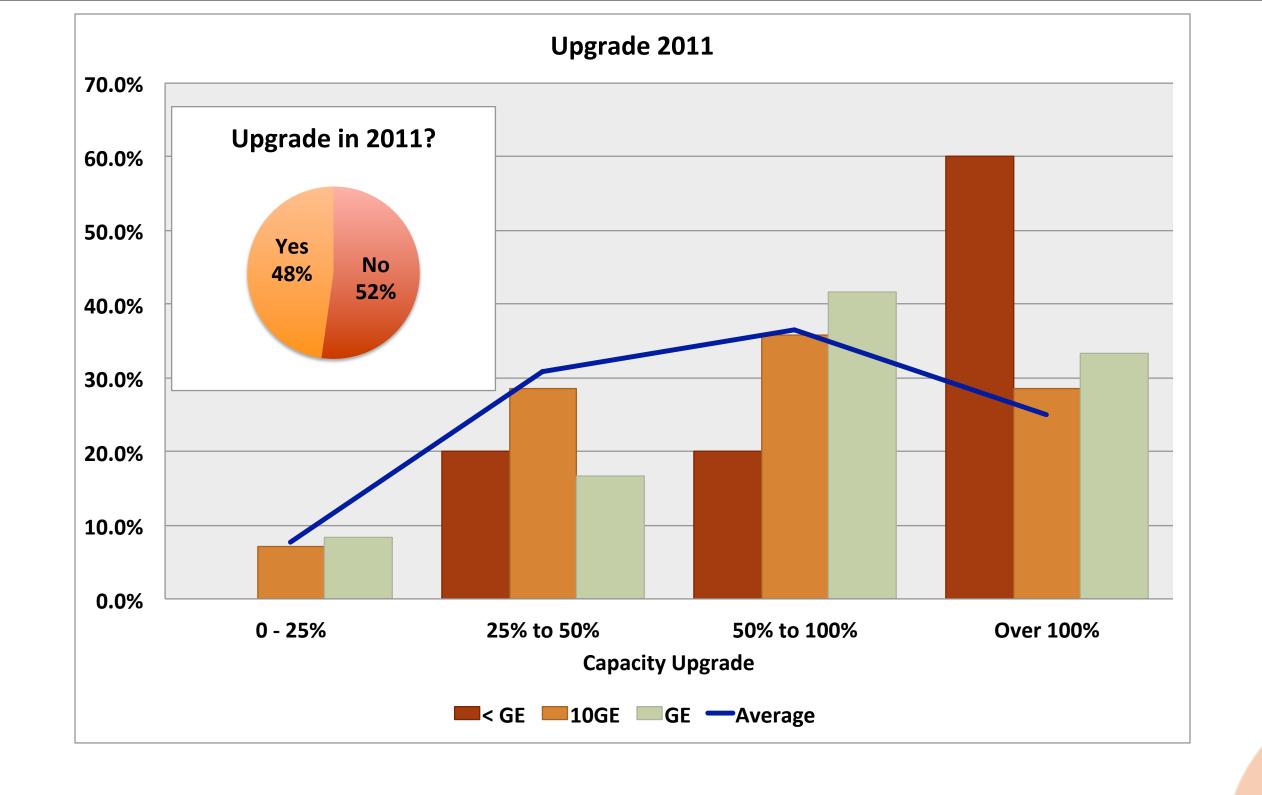
Inter IPX service

Timeframe

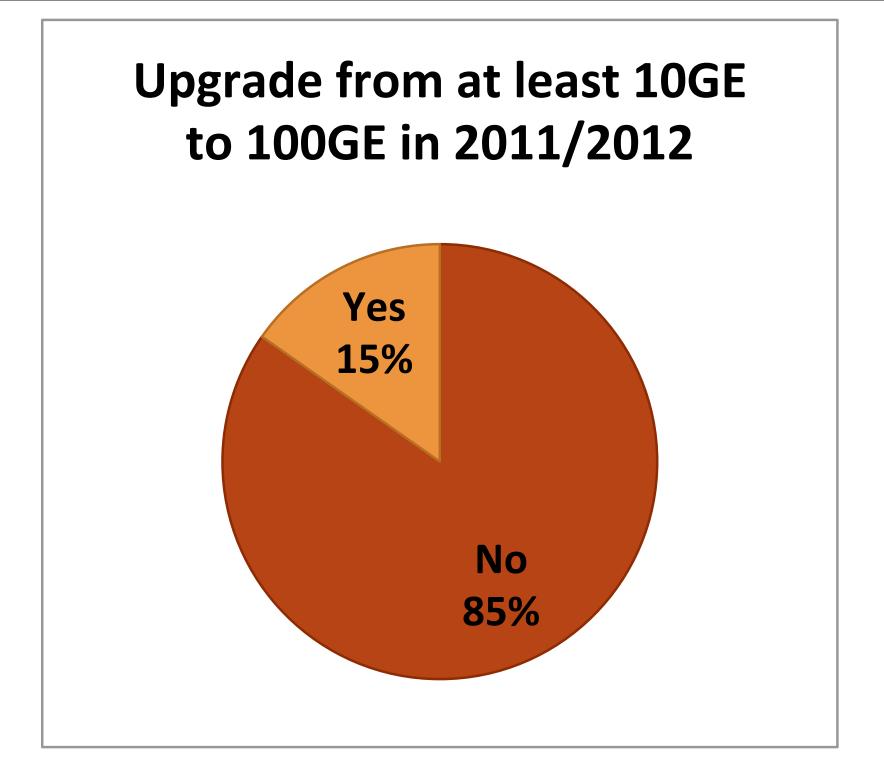
- AMS-IX implementation
 - Two connections on two different locations
 - Separate VPLS instance
 - SLA guarantees 99.995% availability (different from standard SLA)
 - SLA guarantee on performance as defined in IR.34 for service class with highest parameters
 - As defined in IR.34 as "Conversational Class of Service"
- Customer beta service May, fully operational July 2011

I00GE

If you currently connect with at least 10GE do you plan to upgrade to 100GE in the 2011/2012 timeframe?



General Upgrade Plans

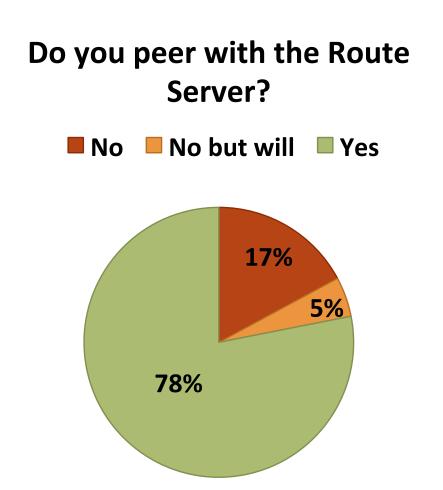


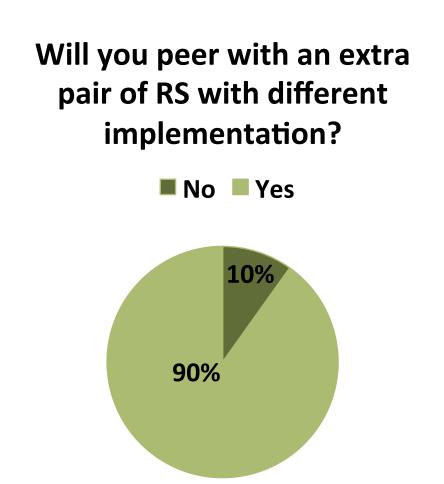
Optic preference LR10 Upgrade or Implement 100GE

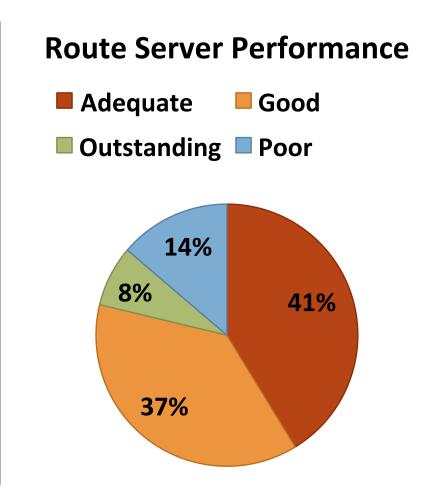
100GE service

Timeframe and pricing

- Lab testing in AMS-IX lab early April
- First customer testing (pre-production hard and software) half May
- General customer service June 2011
- Two optic types supported
 - ▶ 100GE-LR10 at 7*10GE price
 - ▶ 100GE-LR4 at 10*10GE price







Will implement another pair of route servers based on Bird AMS-IX route servers

More-IP event

http://www.more-ip-event.net



June 8 and 9 2011

- Formal announcements of new services
- Co-operation with world IPv6 day
- AMS-IX technical and general meetings