NETNOD TECHNICAL IX UPDATE

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IX Update

• Netnod Copenhagen Rebuild
• New Product Options for IX
• Optical IX Services
• Timeplan
• Route server update
Netnod Copenhagen rebuild

• Expansion required to meet increasing customer demand
• First steps in the rebuild were made in December
• New solution for both Layer 0, Layer 1 and Layer 2
• Started to talk to vendors in October last year
• Talked to 11 Vendors in total
• Final negotiations are underway
• Implementation will start Q2
• Migration to be finished by end of Q2
Netnod Copenhagen rebuild

• Make Netnod IX:s look more like each other
  – Make Netnod Copenhagen look like Netnod Stockholm
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• Launch of Optical IX Products
New product options

- **Netnod IX Redundant Port (Current Stockholm product)\)**
  - The current product. No changes
  - 1 Port connected to blue VLAN, and 1 port connected to green VLAN
  - Speeds: 1G, 10G or 100G
  - Available Q3 at Netnod Copenhagen
New product options

• **Netnod IX Single Port**
  • Non redundant
  • 1 port physically connected to either blue or green network
  • Both blue and green network as multiple VLAN on port
  • Speeds: 1G, 10G or 100G
  • Available Q3 at Netnod Stockholm
Netnod IX Products

• **Netnod Optical IX (Layer 1)**
  • A new product. Not connected to the switching fabric
  • Point-to-Point transport between Netnod On-Net Locations in an area
  • Speed: 10G or 100G
  • Available Copenhagen Q3 and Stockholm Q4 this year

• **Netnod Optical IX Spectrum (Layer 0)**
  • A new product. Not connected to the switching fabric.
  • Offered on Request
  • Point-to-Point 50GHz Spectrum between Netnod On-Net Locations
  • Available Copenhagen Q3 and Stockholm Q4 this year

• **Netnod Optical IX Customer Node**
  • Establish an On-Net location at a customer site
  • Offered on Request
  • Supports all Netnod IX Products (L0-L2)
Timeplan

**Rebuild Netnod IX Copenhagen**
- To be finished before end of Q2

**Rebuild Netnod IX Stockholm**
- Start rebuild Q3
- Finished before end of Q4
Route server update

• As previously announced we started doing IRR based filtering 4th April

• Result of IRR based filtering
  – 79 000 Routes accepted
  – 3800 prefix filtered
  – 2600 of above from one peer

• Please make sure you have your IRR filters updated!
Route server update

• All our routeservers now also support BGP Large Communities

• The following Large Communities are currently supported:

52005:0:0 Do not announce to any peer
52005:0:ASx Do not announce to ASx
52005:1:ASx Announce to ASx if 52005:0:0 is set.

52005:101:ASx Prepend peer AS 1 time to ASx
52005:102:ASx Prepend peer AS 2 times to ASx
52005:103:ASx Prepend peer AS 2 times to ASx
THANKS!

Questions?

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