

# 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

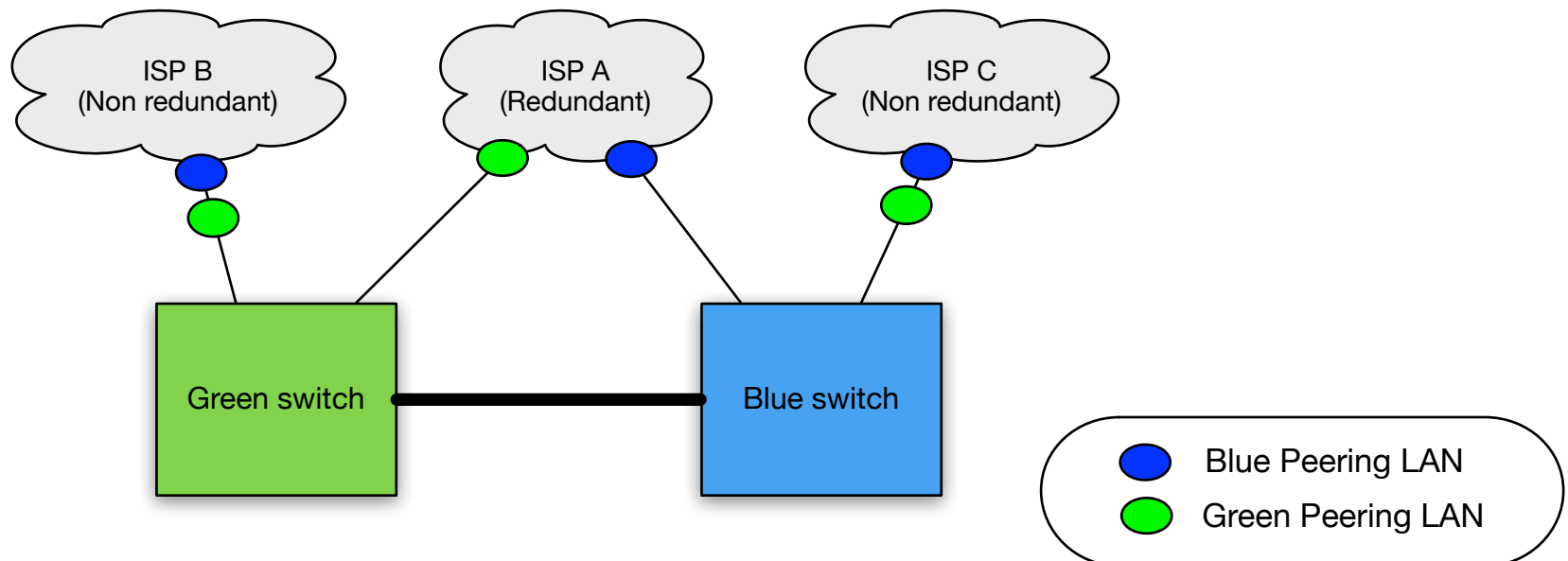
- Expansion required to meet increasing customer demand
- First steps in the rebuild were made in December
- New solution for both Layer 0, Layer 1 and Layer 2
- Started to talk to vendors in October last year
- Talked to 11 Vendors in total
- Final negotiations are underway
- Implementation will start 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
  - Make Netnod Stockholm look like Netnod Copenhagen
- Launch of Optical IX Products

# New product options

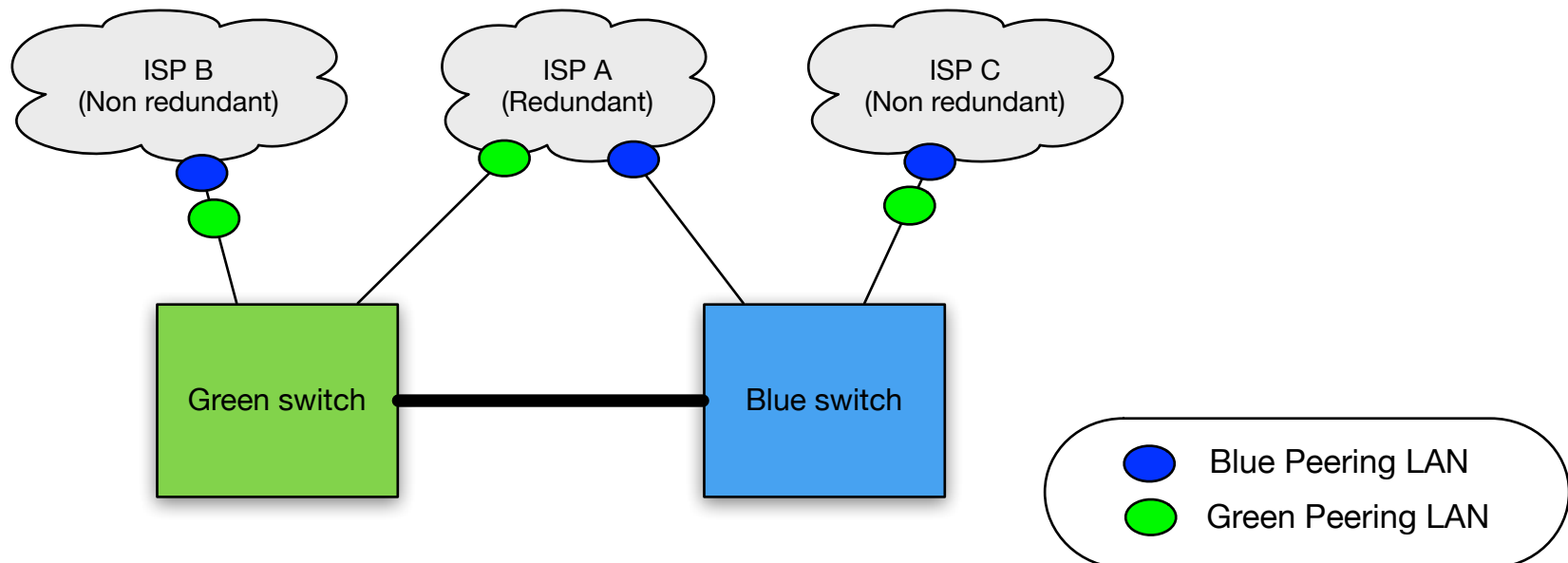
- **Netnod IX Redundant Port (Current Stockholm product)**
  - The current product. No changes
  - 1 Port connected to blue VLAN, and 1 port connected to green VLAN
  - Speeds: 1G, 10G or 100G
  - Available Q3 at Netnod Copenhagen



# 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 4<sup>th</sup> 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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