Netnod Update

28 February 2023

Emil Palm, Netnod

Netnod staff at LINX 118

Emil Palm

Network Engineer

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Global Interconnection Relations Manager

Netnod background

A neutral organisation with more than 25 years working at the core of the Internet

- Operates the largest **Internet Exchange (IX)** in the Nordics

- Manages I-root, one of world's 13 root name **DNS** servers

- Provides **DNS services** to enterprises and some of the largest Top Level Domains in the world

- Develops **Time and frequency** services with the highest levels of accuracy and security

Interconnecting the Nordics

Flexible, reliable and secure interconnection across the Nordics.
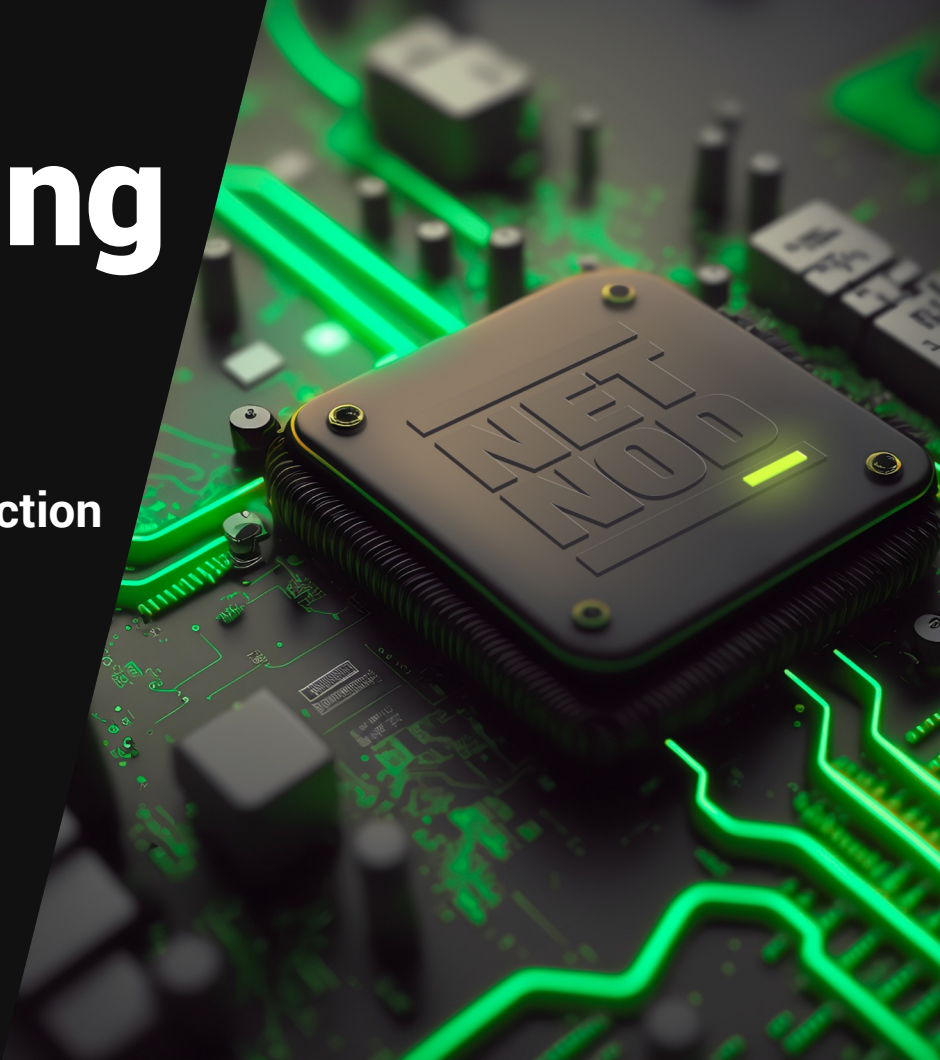
The largest IX platform in the Nordics

- **Peak traffic 2+ Tbps**

- **200+ connected ASNs**

- **100% uptime since 2002**

LULEÅ

SUNDSVALL/GÄVLE

OSLO

HELSINKI

STOCKHOLM

GOTHENBURG

COPENHAGEN/MALMÖ

NET NOD

Netnod IX Copenhagen

- **Fastest growing IX in the Nordics**
- **60+ networks**
- **460+ Gbps peak traffic**
- **Malmö / Copenhagen interconnected with multiple, redundant paths**

Time	Region	Organisation		LINES	FILL
Mont… ▼	Copenhagen ▼	All organisations ▼			

Total
Copenhagen – Monthly – Timestamps in UTC

Incoming traffic min: 73.32 Gbit/s avg: 228.47 Gbit/s max: 419.59 Gbit/s
Outgoing traffic min: 82.63 Gbit/s avg: 253.33 Gbit/s max: 466.55 Gbit/s
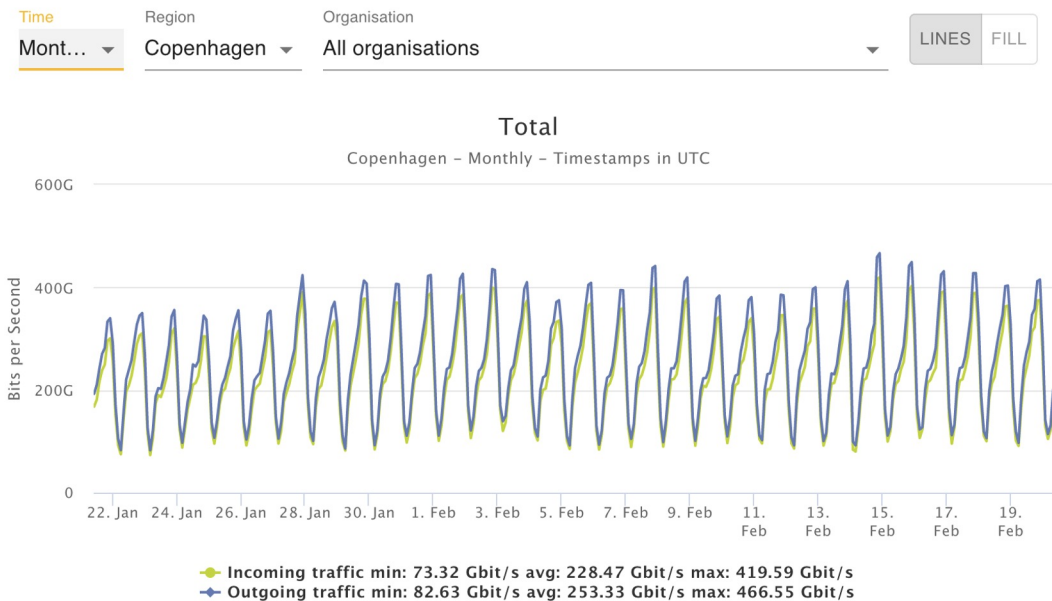
Netnod Helsinki

3 PoPs:
- Digita Helsinki Pasila

- Equinix HE7

- Telia Helsinki

Remote peering

Use your Netnod IX port to peer throughout the Nordics with 200+ networks exchanging more than 2 Tbps of traffic.

Shaped port

Pay only for the capacity you need with a flexible connection that scales with your network.

Metro access

Get fully managed, immediately provisioned point-to-point transport in metro areas with multiple, redundant routes.

Netnod AB
Emil Palm

- 🏠 **Dashboard**
- 📑 **Services** ⌃
  - ⚙ Internet Exchange - IX
  - 🌐 Domain Name System - DNS
  - 🕑 Time & Frequency - T/F
- 💲 Billing
- ✉ Contact us
- ⚙ Settings

🔚 Sign Out

Hello Emil!

Tutorial

Welcome to Netnod's customer portal. Here you can administer and monitor the different services you have at Netnod.
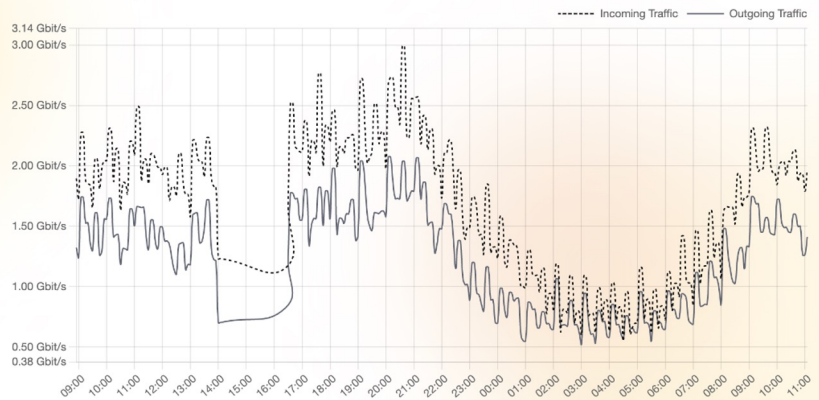
Statistics: IX Metrics

TRAFFIC | BROADCAST

Daily ⌄ | All regions ⌄

········· Incoming Traffic ——— Outgoing Traffic

3.14 Gbit/s
3.00 Gbit/s
2.50 Gbit/s
2.00 Gbit/s
1.50 Gbit/s
1.00 Gbit/s
0.50 Gbit/s
0.38 Gbit/s

09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00 00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00

Reset zoom

Hold **Shift** to move when zoomed

IX Products ⓘ

10G Göteborg (IX / Single)   〔Active〕   Contract End Date 2022-12-31

Invoices

You have no invoices yet

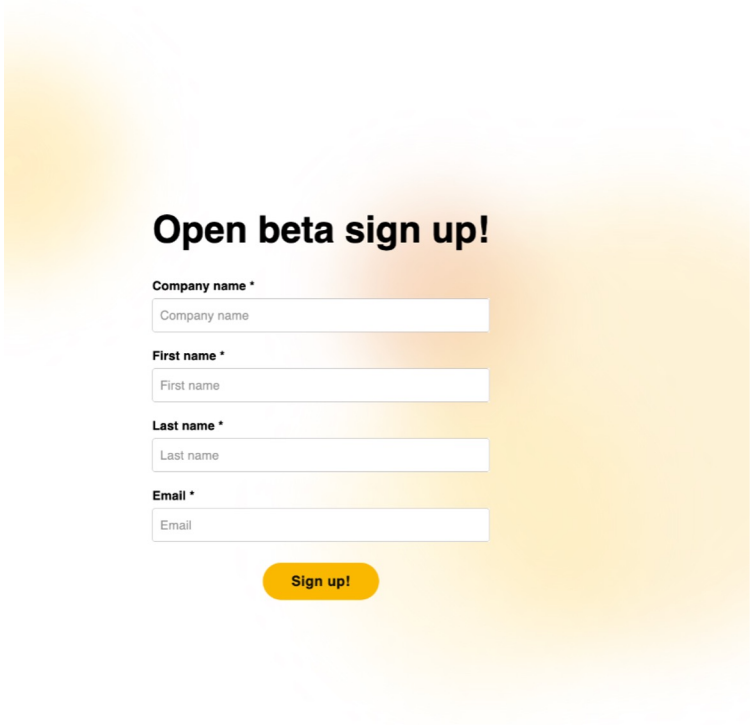Go to billing page

Latest news

Tue, 13 Sep 2022 13:00:00 GMT

New time service brings ultra-precise and robust time to companies in Sweden

NETNOD

Open beta sign up!

Company name *

First name *

Last name *

Email *

Sign up!

https://signup.portal.netnod.se

ROUTE SERVER SUPPORT FOUNDATION

There are 13 root name DNS servers in the world.

The world trusts Netnod to operate one.

NET NOD

80+
GLOBAL DNS LOCATIONS

TLD service

Get robust, secure and fast DNS with 100% uptime, one of the most advanced anycast networks in the world, and DNS expertise from the provider of choice for some of the largest ccTLDs.

DNS enterprise service

Guarantee your customers 100% uptime by using one of the largest and most robust DNS services in the world.

I-root service

There are only 13 DNS root name servers in the world. The world trusts Netnod to operate one.

NET
NOD

We always know what time it is

Sweden trusts Netnod to distribute national time.

Swedish distributed time service

- **Operated by Netnod, monitored by RISE and financed by PTS**

- **6 time nodes placed in secure bunkers throughout Sweden (Stratum-1 time servers)**

- **Time traceable to UTC**

- **Free and commercial service with SLA**

LULEÅ ●

SUNDSVALL ●

● 2x STOCKHOLM

● GÖTEBORG

● MALMÖ/COPENHAGEN

Netnod's clock nodes: accurate and secure time

- ■ **Dual nodes with all critical equipment duplicated for redundancy (2x caesium clocks)**

- ■ **Dedicated battery backup for all time components**

- ■ **NTP/NTS servers use a custom-built FPGA-based hardware implementation**

NTP service

Connect for free to one of the most advanced and secure NTP services available which also includes…

NTS service

Connect for free to ensure you are receiving secure and accurate time from a trusted source

Questions?

NET NOD

Visit us at netnod.se