

Netnod Internet Exchange

EIX

RIPE54 - Tallin

Kurtis Lindqvist

<kurtis@netnod.se>



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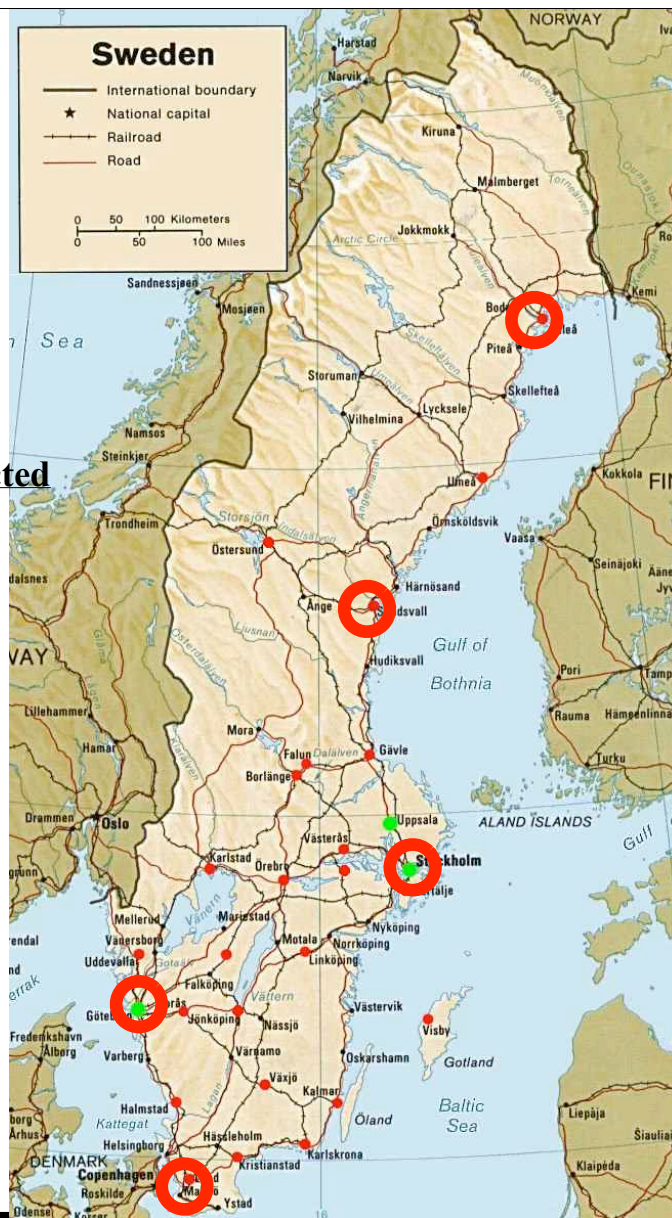
So who are we anyway?

- Netnod is owned by the TU-Foundation
- Largest Internet Exchange in Scandinavia
- We operate exchanges in five cities in Sweden
 - The locations are not interconnected



Examples of operator connected

- Tele2
- TeliaSonera
- B2
- Telenor
- SUNET
- Banhof
- Internet5
- Song
- Chello
- MCI WorldCom
- GlobalCrossing
- + 40 more



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Connecting to Netnod

- In Stockholm the charges for connecting to Netnod includes the cost for two separately routed fiber pairs.
 - One to each bunker
 - The bunkers are not interconnected
- In the other cities, the ISP have to find a fiber provider themselves
 - Co-ordination needed to patch through to us



News: Pricing structure

- Invoiced quarterly in advance
- Fees per year
 - Stockholm outer city
 - 2x10GE: 410k SEK (\$58.6k)
 - 2x1GE: 310k SEK (\$44.4k)
 - Stockholm inner city:
 - 2x10GE: 325k SEK (\$46.5k)
 - 2x1GE: 225k SEK (\$32.2k)
 - Malmö/Gothenburg/Sundsvall:
 - 10GE: 140k SEK (\$20k)
 - 1GE: 90k SEK (\$12.9k)

Common Services

- Official Swedish time through NTP
 - In Malmö, Sundsvall, Gothenburg and one bunker in Stockholm
 - i.root-servers.net
 - .SE TLD-service
 - Stockholm, Gothenburg, Sundsvall
 - A number of TLDs in Stockholm
 - Among others Verisign's .com and .net
 - .DK, .NL, .DE, .NO etc.
 - Copy or RIPE routing registry in Stockholm
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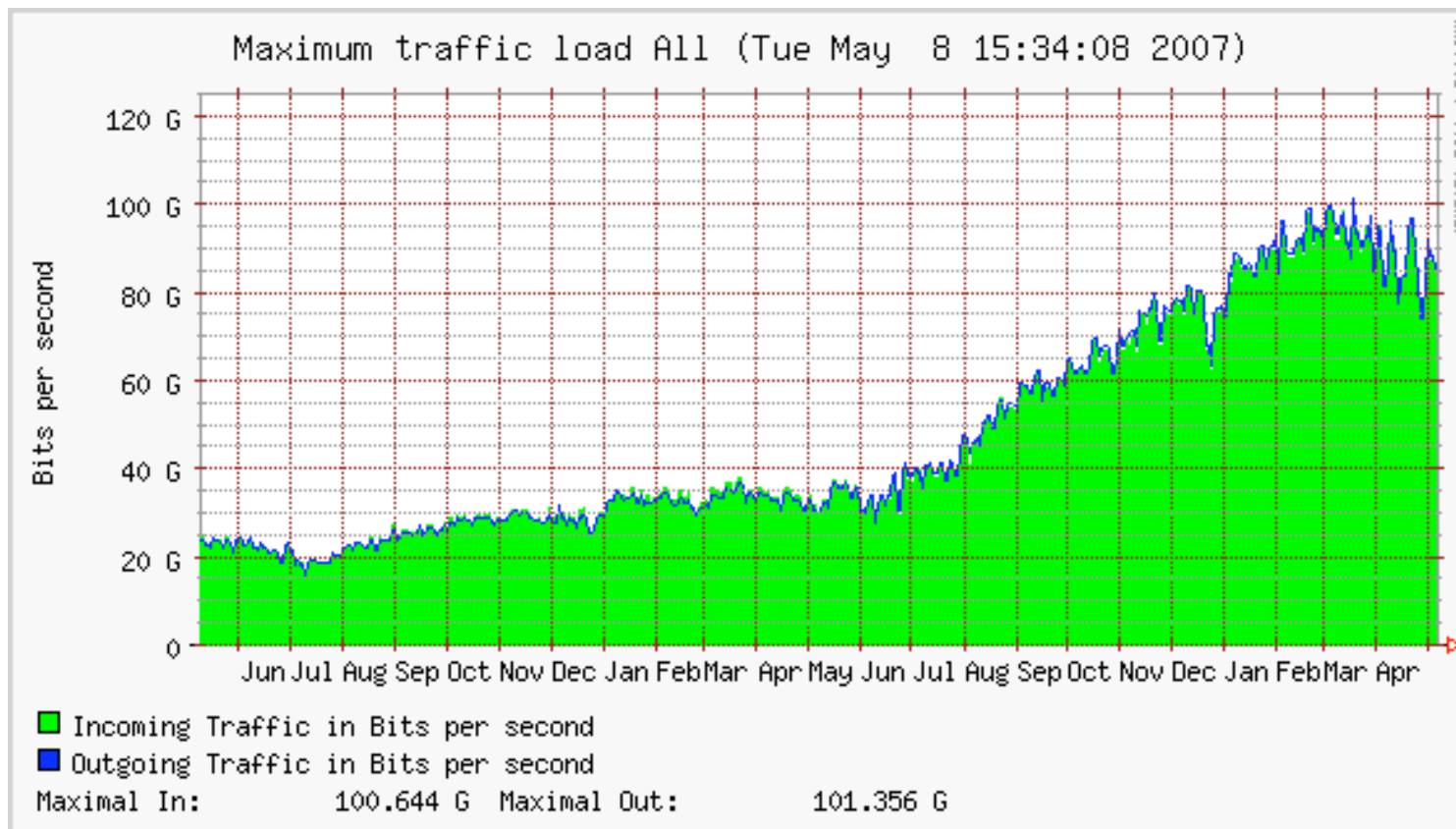


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Connected customers

City	Connections	
	1GE	10GE
Stockholm	29(32)	16(9)
Gothenburg	9(11)	5(3)
Malmö	9(12)	7(4)
Sundsvall	12	4(2)
Luleå	3	-

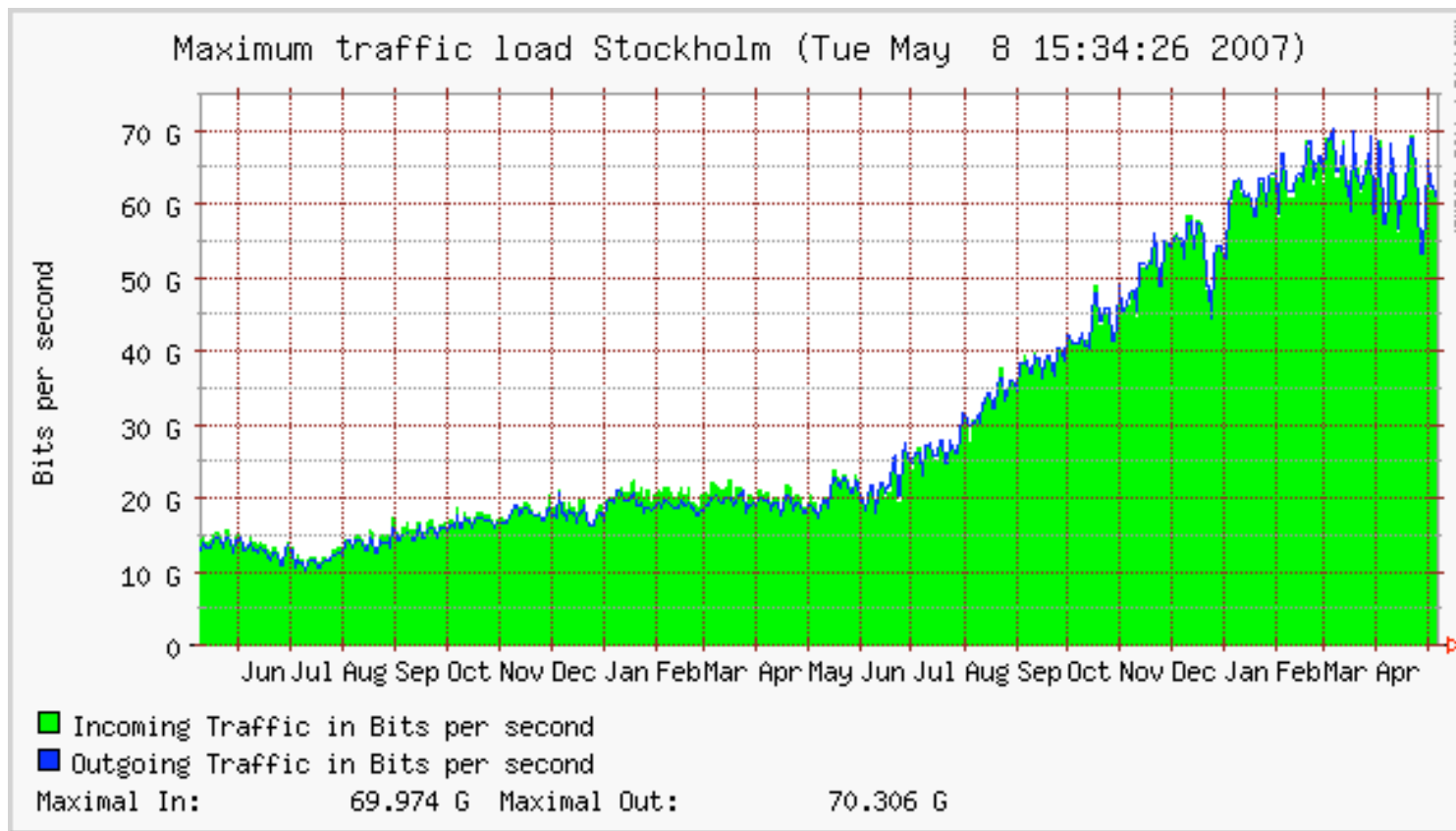
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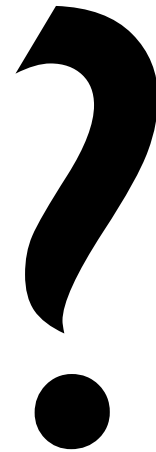
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Top ISPs (Highest average last 24 hours)

Num	ISP	AS	Traffic
1	Com Hem AB	39651	6.65 Gb/s
2	B2 Bredband AB	8642	6.41 Gb/s
3	B2 Bredband AB	2119	5.50 Gb/s
4	TeliaSonera AB Networks	3301	5.32 Gb/s
5	Labs2 i Lund AB	29518	4.26 Gb/s
6	Port80/Rix Telecom AB	16150	3.46 Gb/s
7	TDC Song AB	3246	3.04 Gb/s
8	Bahnhof AB	8473	2.68 Gb/s
9	Cogent Communications Deutschl	174	2.66 Gb/s
10	IP-Only Telecommunication AB	12552	2.63 Gb/s
11	Finnet Carrier Ltd	16086	1.54 Gb/s
12	Lidero Network AB	13189	1.47 Gb/s
13	Tele2 Sverige AB	1257	1.42 Gb/s
14	SUNET	1653	1.23 Gb/s
15	Net at Once Sweden AB	35706	1.22 Gb/s
16	Saunalahti Group Oyj	6667	1.09 Gb/s
17	Telenor AB	8434	994.54 Mb/s
18	NORDUnet A/S	2603	935.72 Mb/s
19	TDC Solutions A/S	3292	817.17 Mb/s
20	Verizon Sweden AB	8385	678.67 Mb/s



Contact

Netnod Internet Exchange i Sverige AB

Bellmansgatan 30^I

SE-118 47 Stockholm

Sweden

Office address: Bellmansgatan 30^I

Telephone: +46-8-615 85 70

Telefax: +46-8-442 09 67

E-mail: kurtis@netnod.se

URL: <http://www.netnod.se/>



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