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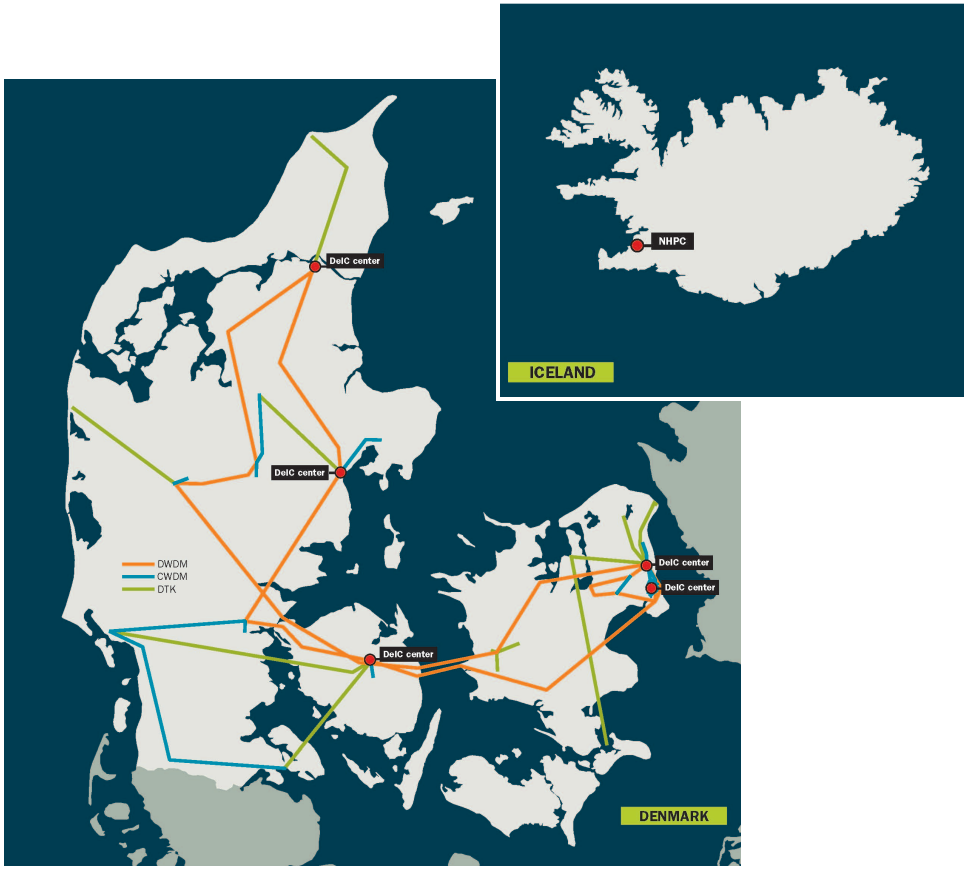
DANISH e-INFRASTRUCTURE COOPERATION

SIG-ISM (&TF-MSP) workshop:

DDoS Mitigation

in the NREN environment

Why is this important?



Vienna, 18th March 2015

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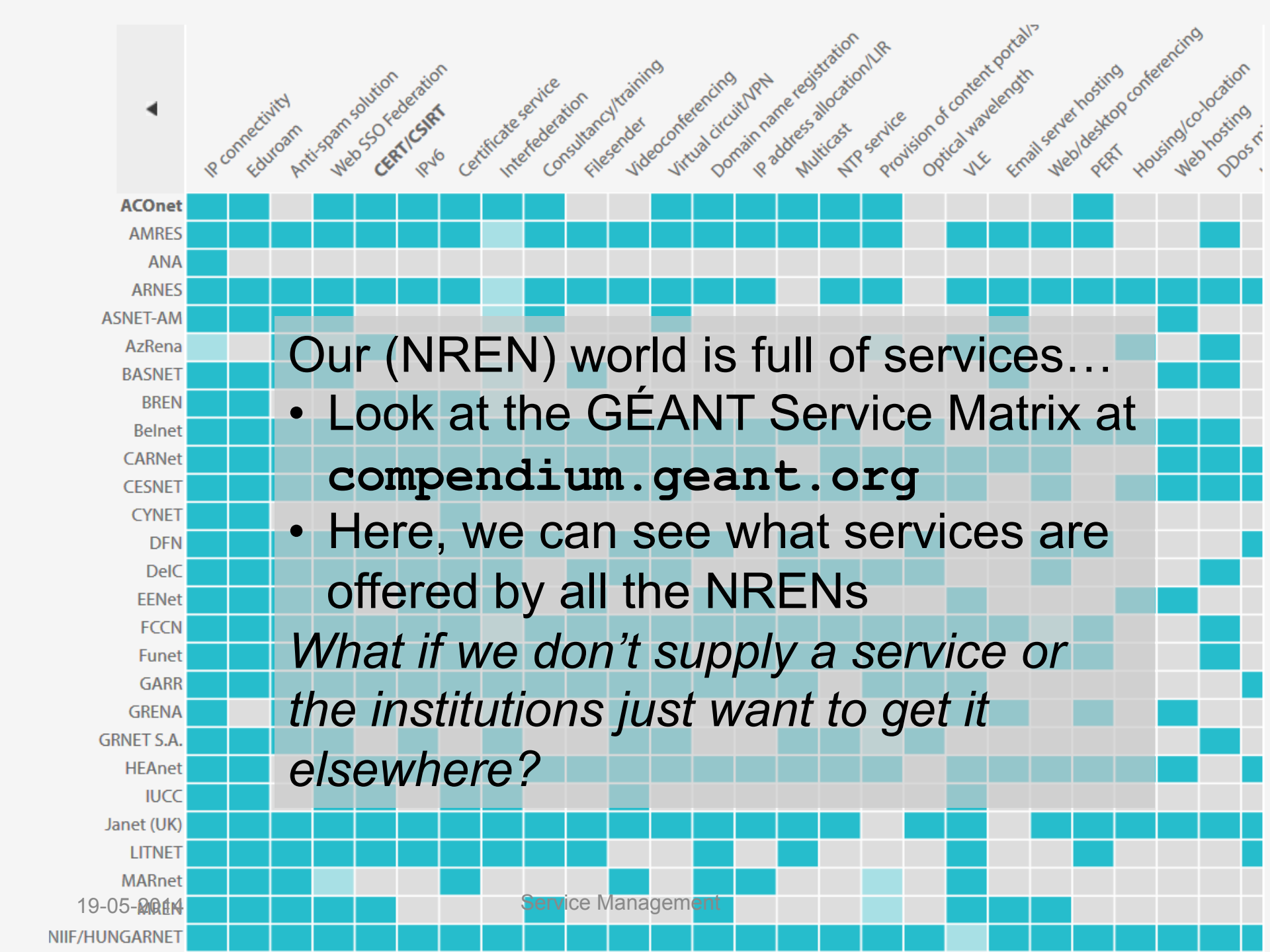
Head of NREN

DeiC

19-05-2014

Service Management

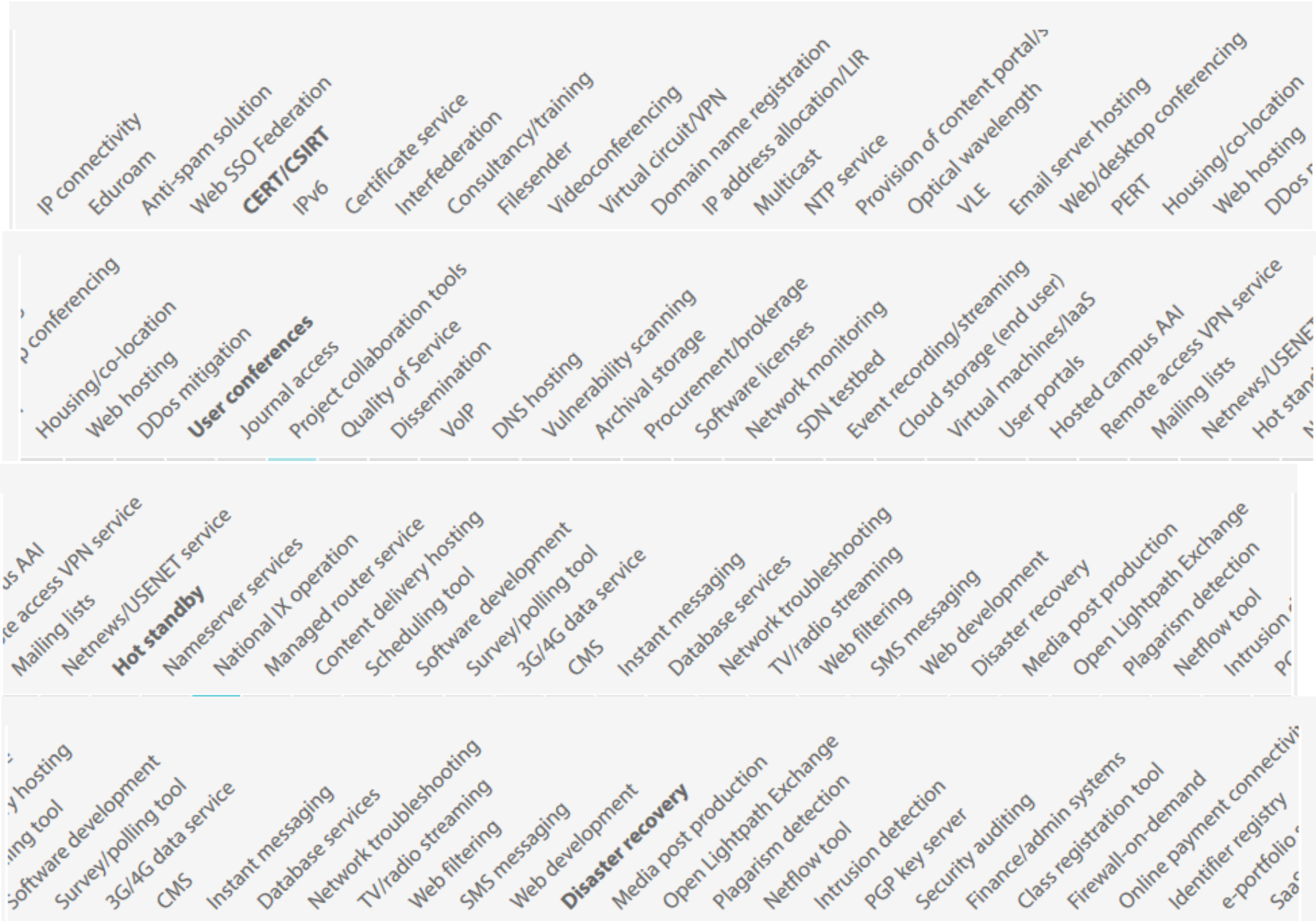


Our (NREN) world is full of services…

- Look at the GÉANT Service Matrix at **compendium.geant.org**
- Here, we can see what services are offered by all the NRENs

What if we don't supply a service or the institutions just want to get it elsewhere?

When we look at all the services…



Our institutions can get most services elsewhere!

- Out of a total of 77 services
- We only have a monopoly on 6:
  - IP Connectivity
  - IPv6
  - Optical Wavelengths
  - DDoS Mitigation
  - QoS
- The users can not get these 6 services from other providers than us without leaving the NREN

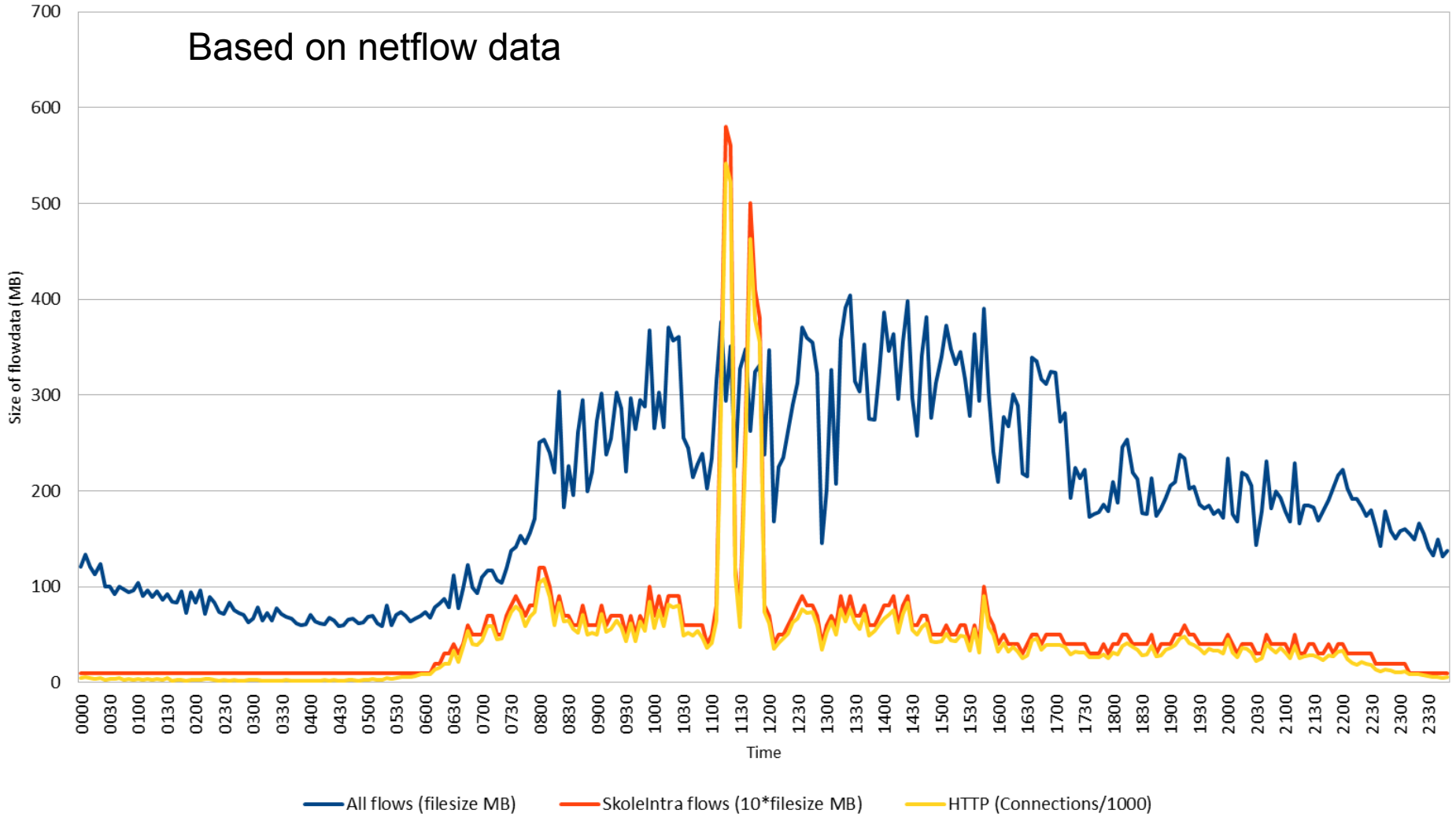
By DDoS protection I mean broad coverage of a network block – not just a proxy for a selected web service

Can we handle this problem as part of general NOC operation?

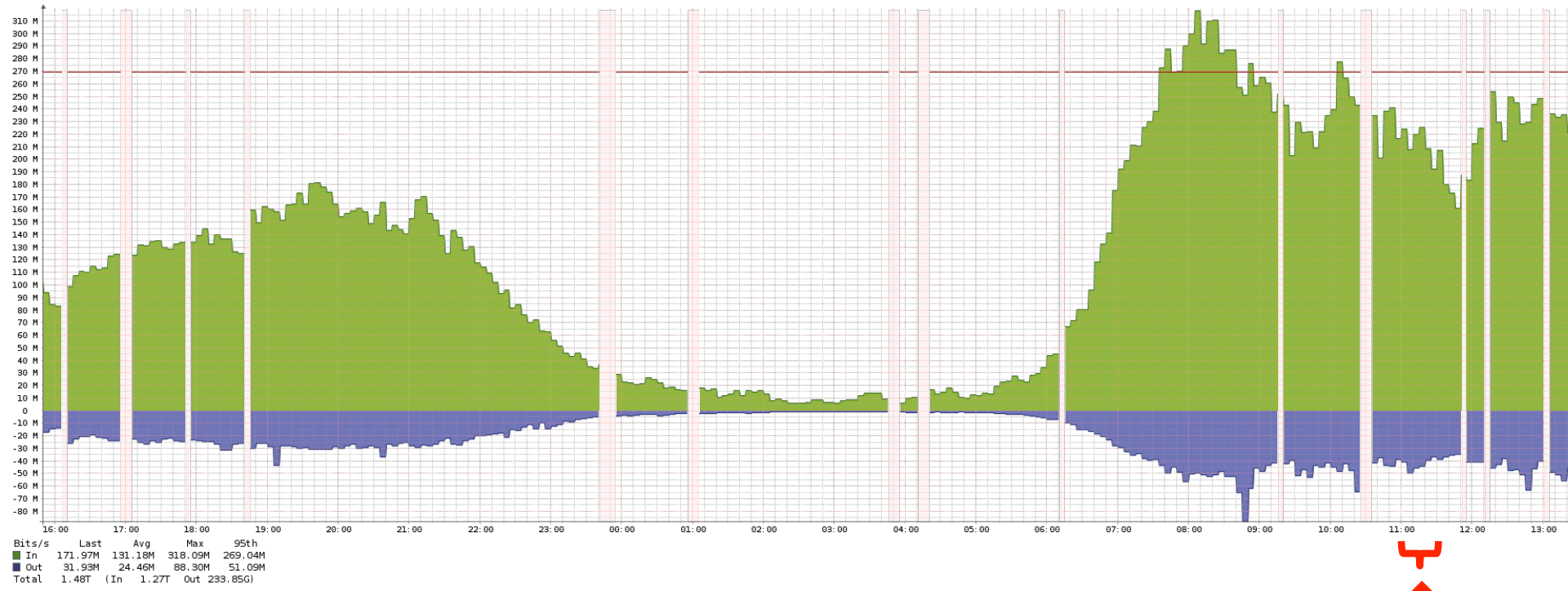
- Why not just look at traffic volumes as part of the on-going general network monitoring?
- …and manually add filters

- Will not work because we do not have the data at the NOC level

A real-life DDoS attack from our network



If we look at traffic volumes, we see nothing



DDoS is here

We do not necessarily see DDoS attacks as part of normal NOC operation

- The only parties who will surely see the attack are the targets (and their users)
- We need to enable users (user institutions) to report the attacks online and real-time

The commercial ISPs offer DDoS protection

TDC Privat Erhverv TDC Play Om TDC

TDC Rådgivning Løsninger Produkter Perspektiv

DDoS Prote

Beskyt jer mod ar

Døgnet rundt monitorere
øjeblikkeligt, hvis it-krim
tjenester ned

Alle virksomheder med onlin

DDoS Beskyttelse - Zen Systems | DDoS protection - Effekti... | DDoS Beskyttelse - Secure...

beskyttelse/ Søg

LAN2LAN Zen Secure Internet WiFi 24/7/365 Rådgivning Hosting Referencer Om

Produkt Ark | Referencer | Juniper Netw

zensystems

DDoS Beskyttelse

- beskyt din virksomhed mod angreb

Virksomheder og institutioner verden over oplever en eksplosiv stigning i antallet og i styrken af DDoS-angreb. Et DDoS-angreb forsøger enten at oversvømme dit netværk via kolossale trafikmængder, at bringe enkelte dele af dit netværk i knæ eller at udnytte svagheder og derigennem trænge ind i rket.

ZEN SECURE

- Firewall
- BGP - ISP In A Box
- **DDoS Beskyttelse**
- Rådgivning
- Anti-Spam

Vil du vide mere? Kon
Zen Syste

Indtast email

Skriv besked...

www.globalconnect.dk/produkter/cloud/data-protection/ddos

GlobalConnect Produkter Om GlobalConnect Corporate Kontakt

DDoS Protection

Data Protection Suite | Backup og restore | Disaster Recovery | DDoS Protection | Hosted Firewal

Effektiv beskyttelse mod DDoS-angreb

Er DDoS-angreb noget, I bekymrer jer om? Bare rolig - I er ikke alen
mange virksomheders hverdag og kræver en løsning, der er hurtig o

vice Management

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DDoS protection

- We need special tools to deal with this problem
- We need online, real-time reporting from the users
- Our users expect us to do it – they can not produce it themselves – they can not get it from another service provider
- All the commercial providers have it
- NRENs look old-fashioned when not offering it

So: Let's do it and do it as a community

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