

„show ixp updates“



Internet Exchange Point (IXP) Updates from:

SwissIX (Swiss Internet Exchange)

DE-CIX (Deutscher Commercial IXP)

Euro-IX (European IXP Association)

15' Agenda

- Short intro
- Update of SwissIX, DE-CIX and Euro-IX in a single presentation approach
- In parallel: „IXP Buzzword Bingo“
- Inspired by: the presentation of RIPE#60 INEX-IXP Update from Nick Hilliard

The Game

- Please grab a „IXP Buzzword Bingo“ Playcard...
- Listen to the presentation and mark the already used „Buzzwords“ on your personal card
- Once you've marked all „Buzzwords“ on your card, please shout „BULLSHIT!“ and you've won a price

Ready? Let's start...

- All available playcards and pens handed out?
- Game starts on the next slide!

SwissIX Update

- Locations: Reduced to 9 sites
- Network: Almost a „brocade only network“
- Routing: 2 Route Server serve 5K+ prefixes
- Participants:
 - Colt (new)
 - UPC, Akamai (upgraded to 10GigE)
- Traffic: Increased, see stats

SwissIX Outlook

- **Focus on the development** of the association and the needs of our participants, members and sponsors
- **General meeting** on Thursday, 3rd of June 2010 at Interxion, Glattbrugg starting at 18:00 CET

DE-CIX Update

- Upgrading Edge to Force10 ExaScale
- Highest 10GE port density (140ports)
- Adding 2nd switch to each core
 - Makes a total of 4 core switches
 - 2.6 Terabit interconnect capacity
 - Brocade MLX32

DE-CIX Update

- Routerservers
 - Upgrading hardware (16GB DELL R510)
 - Dual boot (Linux, OpenBSD)
 - Initially replacing Quagga by BIRD
 - Full as-path and prefix filtering
 - Per peer tables
 - 3rd routerserver in June 2010

Other DE-CIX IXP

- WORK-IX
 - 2 sites in Hamburg (both Wendenstraße)
 - 1st 20GE customer now (Akamai)
 - 33 customers, ~13Gbps peak

Other DE-CIX IXP

- ALP-IX
 - 2 sites in Munich
 - Seidlstraße (Hopfenpost)
 - Landsberger (since March 2010)
 - Adding 10GE customers (Hansenet, Akamai, I&I)
 - 13 customers, almost 3Gbps peak

Euro-IX Short Intro

- European Internet Exchange Association
- Formed in May 2001
- Details see: www.euro-ix.net

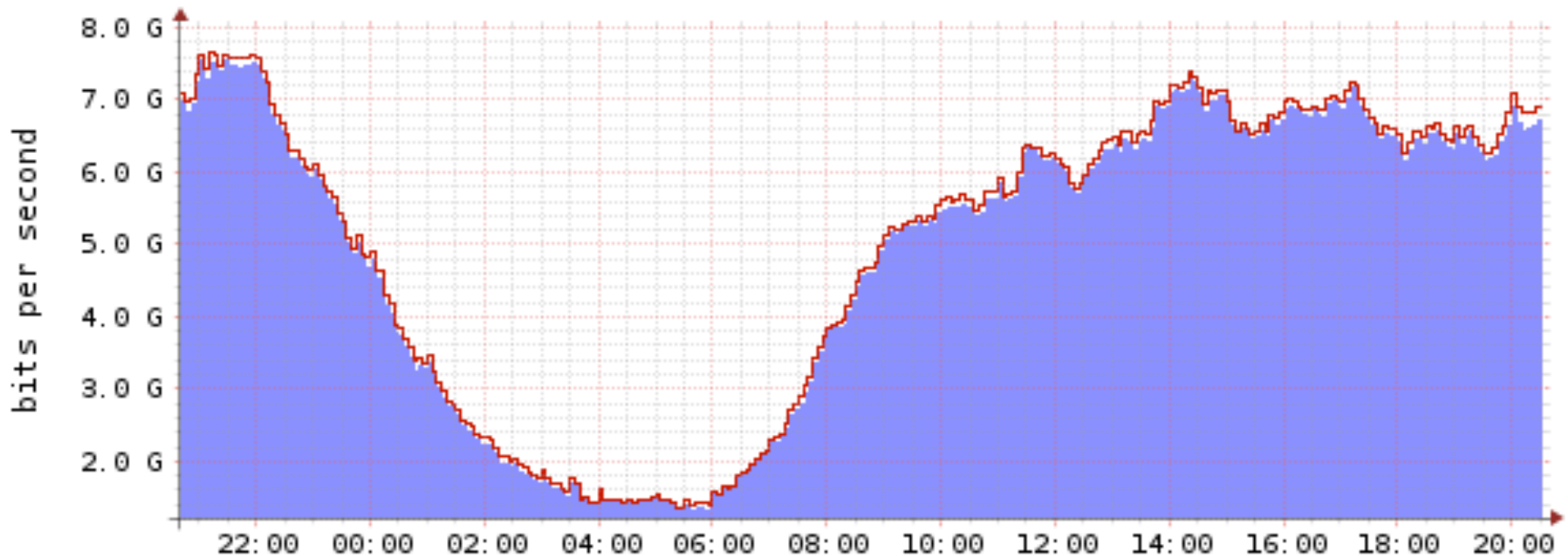
Euro-IX Online Tools

- Peering Matrix
- Service Comparison Matrix
- List of European IXPs
- ASN Database + Filter
- Newest ASN db entries
- Most common ASNs

Traffic increases...

SwissIX traffic

Daily graph of total aggregated traffic

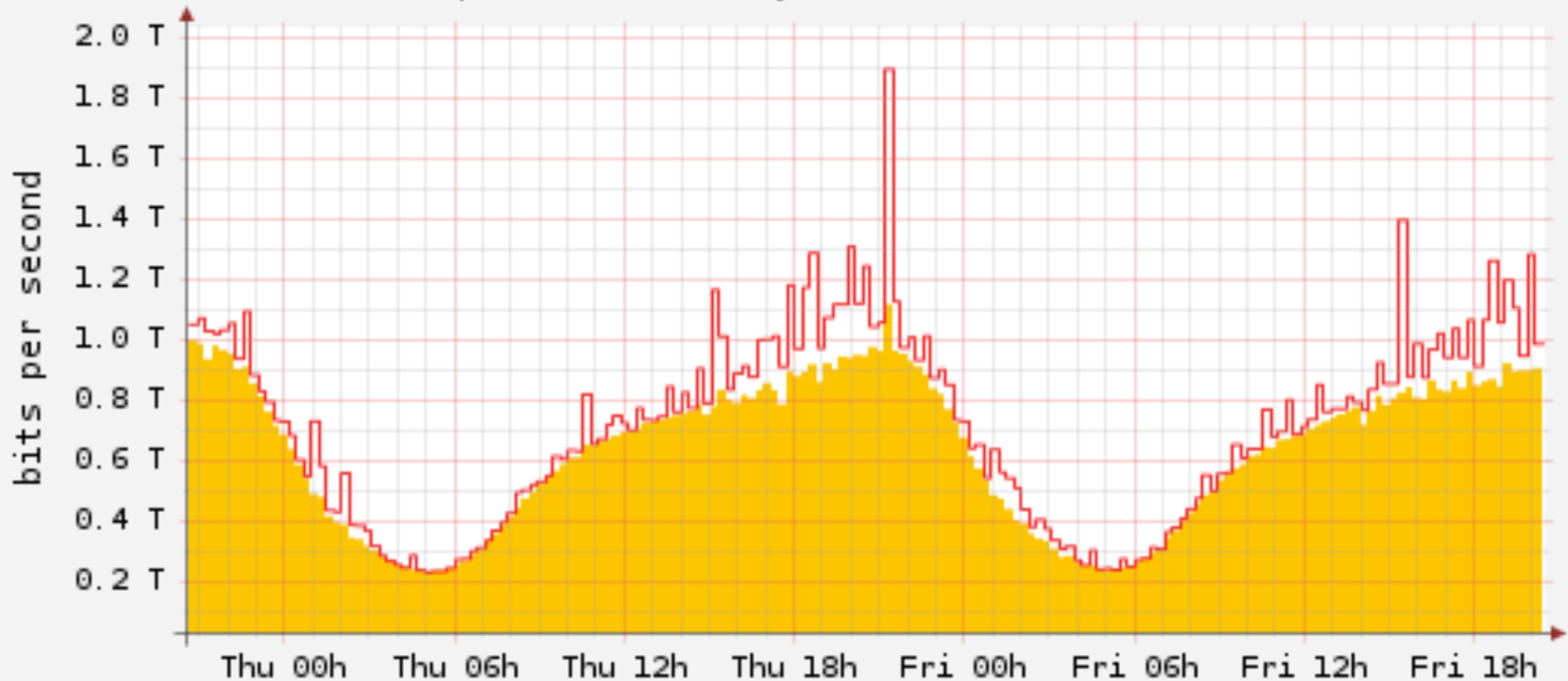


Input	Max:	7.53 Gbps	Average:	4.88 Gbps	Current:	6.77 Gbps
Output	Max:	7.67 Gbps	Average:	4.98 Gbps	Current:	6.97 Gbps

Plotted: 2010-05-28 20:37:34

DE-CIX traffic

last update: Fri May 28 18:30:01 UTC 2010



RRDTOOL / TOBI OETIKER

■ average traffic in bits per second ■ peak traffic in bits per second

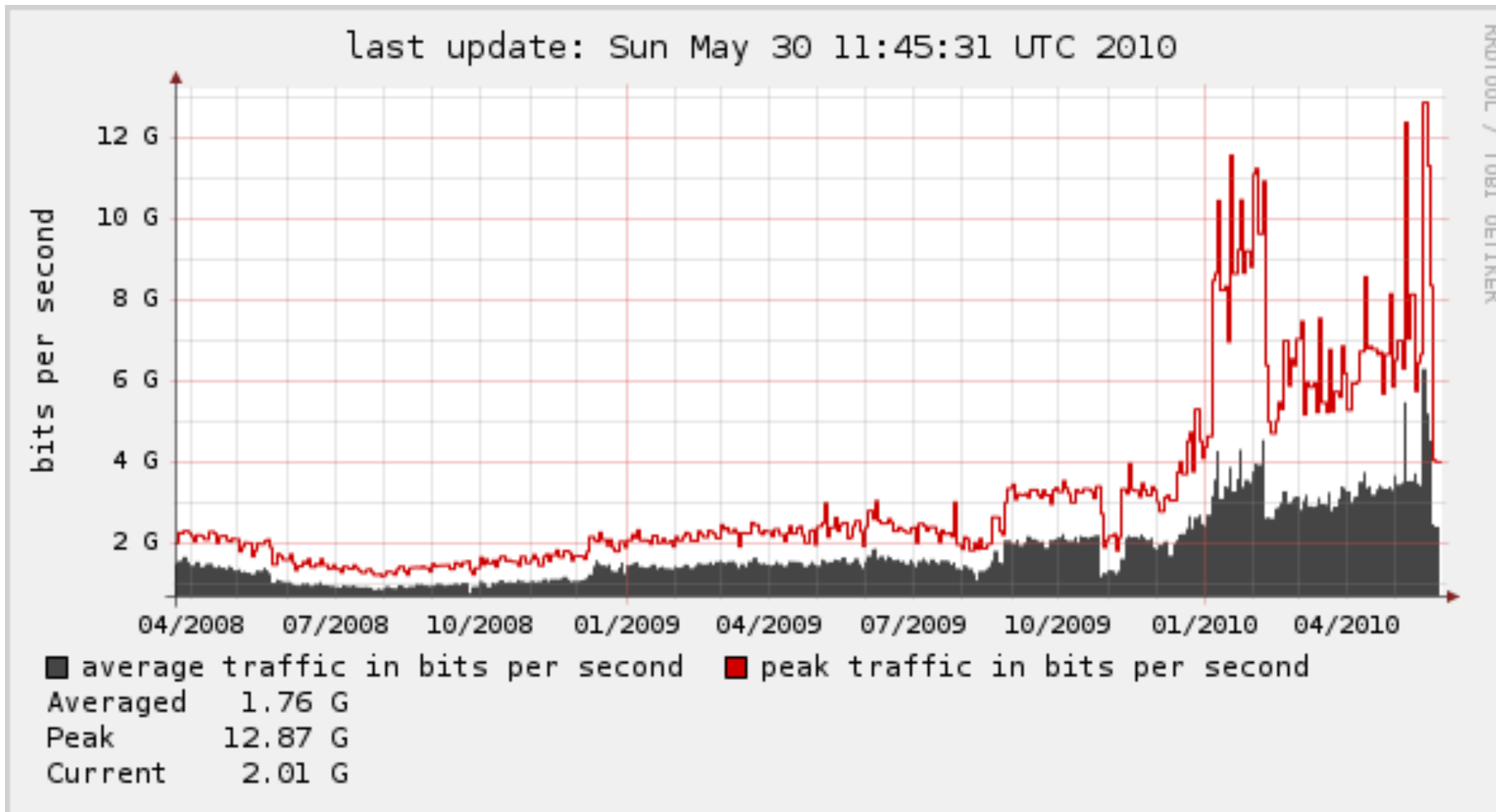
Averaged 628.6 G

Peak 1896.3 G

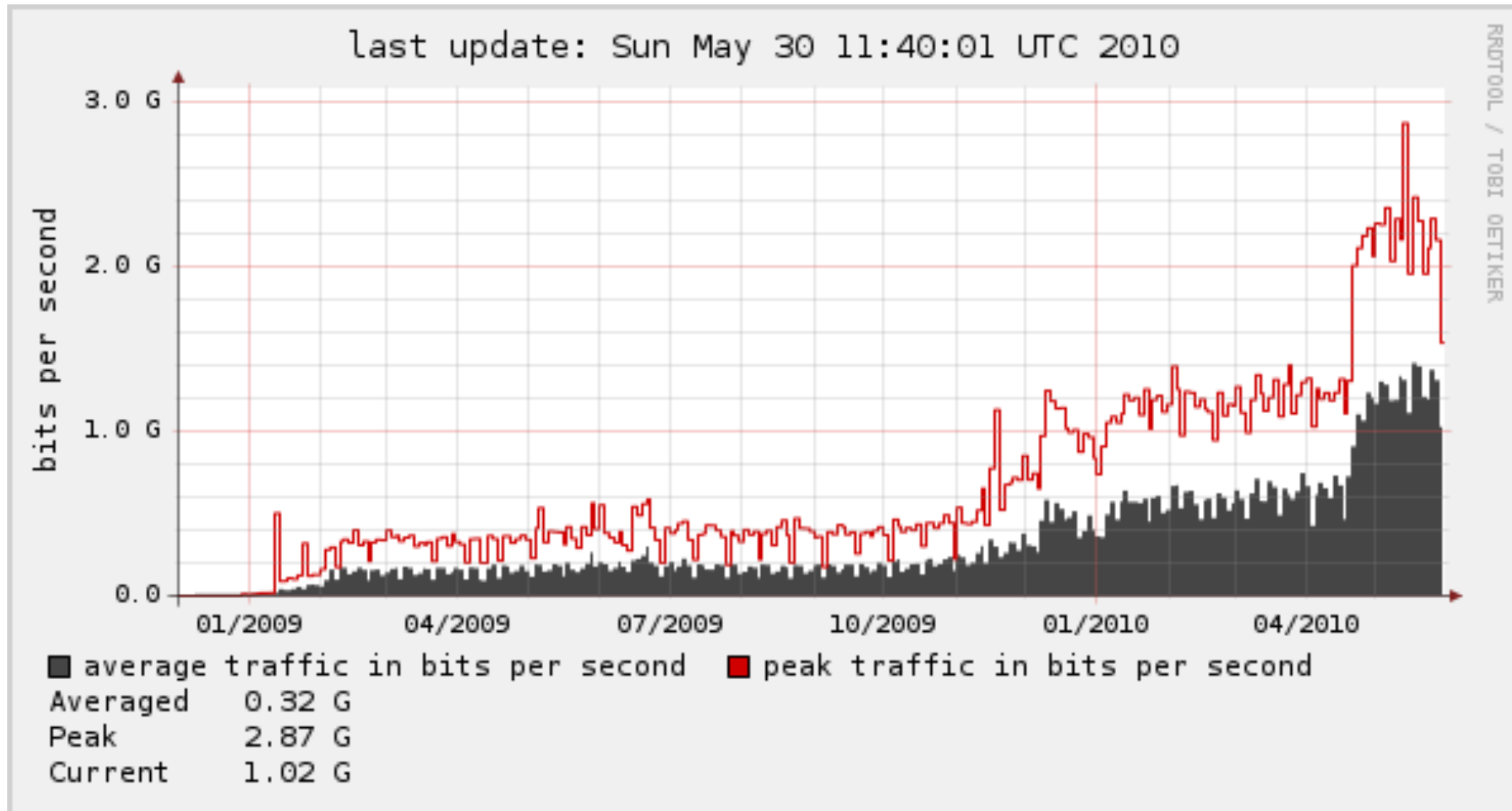
Current 900.9 G

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WorkIX traffic

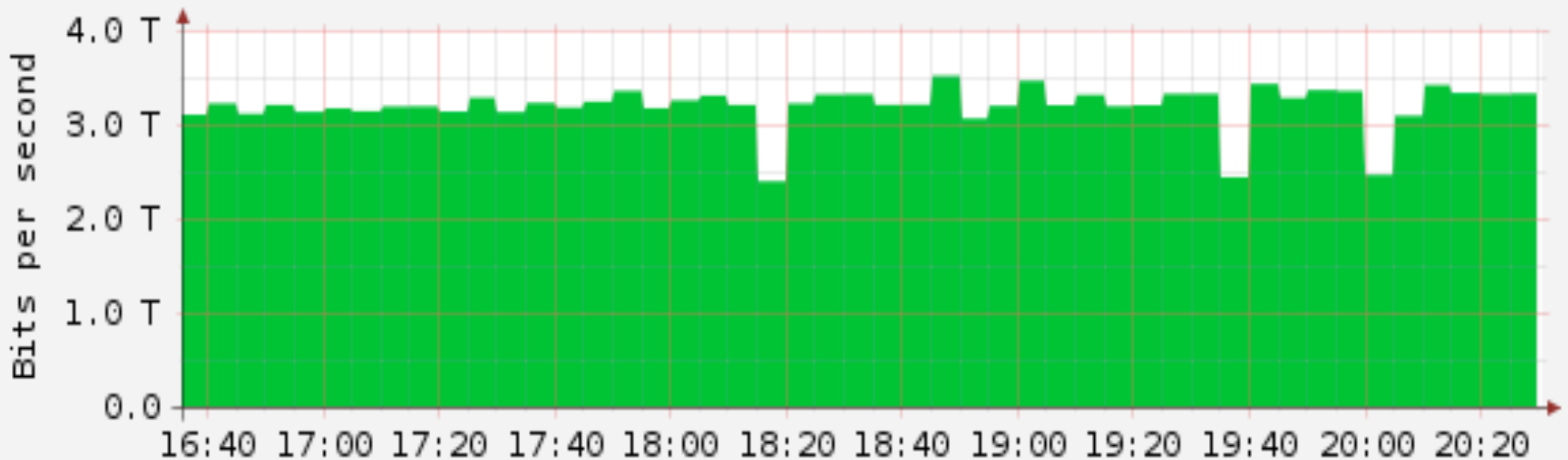


AlpIX traffic



Euro-IX „traffic“

Aggregate Stats of 51 IXPs



■ TOTAL

Avg 3.19 T Cur 3.32 T

Max 3.51 T Min 2.39 T

**Thanks for listening
and enjoy your lunch!**

**If you have any
questions, please have a
chat with us...**