

T.I.S.P. Community Meeting 2013

Berlin, 04. - 05.11.2013

Warum wir uns mit IPv6 beschäftigen müssen

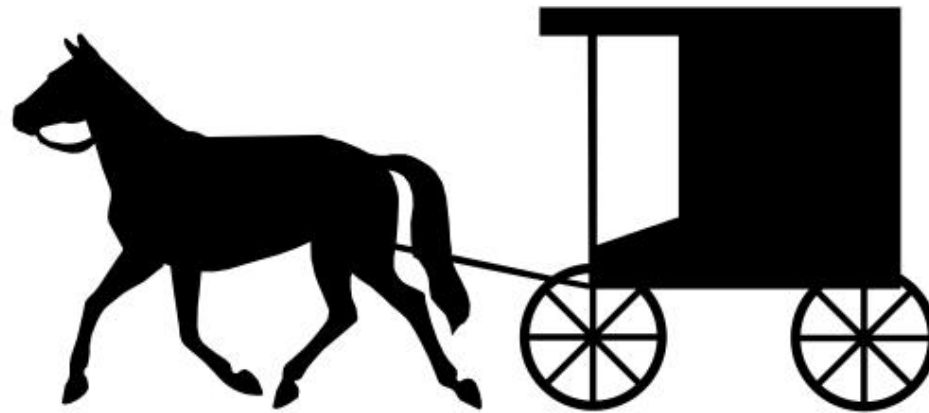
Dr. Safuat Hamdy
Secorvo Security Consulting GmbH

A close-up, blue-tinted photograph of a car engine cover. The cover is dark with a textured, honeycomb-like pattern. In the center, there is a white 'V6' logo. Above the logo is a circular emblem containing a stylized 'O'. Below the logo, there is a circular cap with the word 'OPEN' visible. The overall image has a technical and industrial feel.

Warum wir uns mit IPv6 beschäftigen müssen

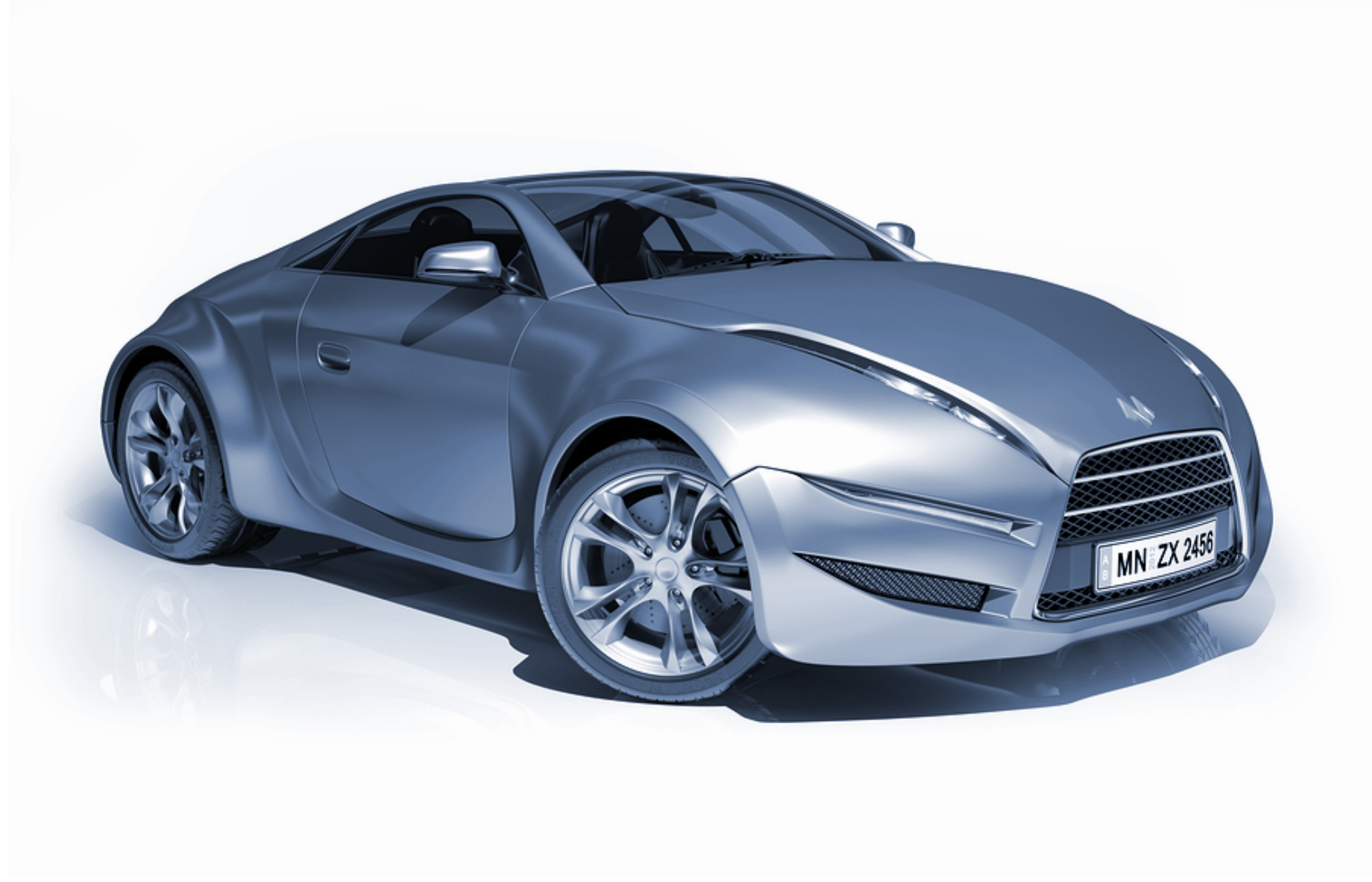
Dr. Safuat Hamdy

! CAUTION



Legacy IP Only

organization
~~This product~~ does not support
the current generation of the
Internet Protocol, IPv6.



Warum IPv6?

*Es sind noch viele IPv4-Adressen da
Wir kümmern uns darum, wenn es soweit ist*

Nicht vor meiner Rente

Es ist doch noch Zeit

WIR haben doch genug IPv4-Adressen

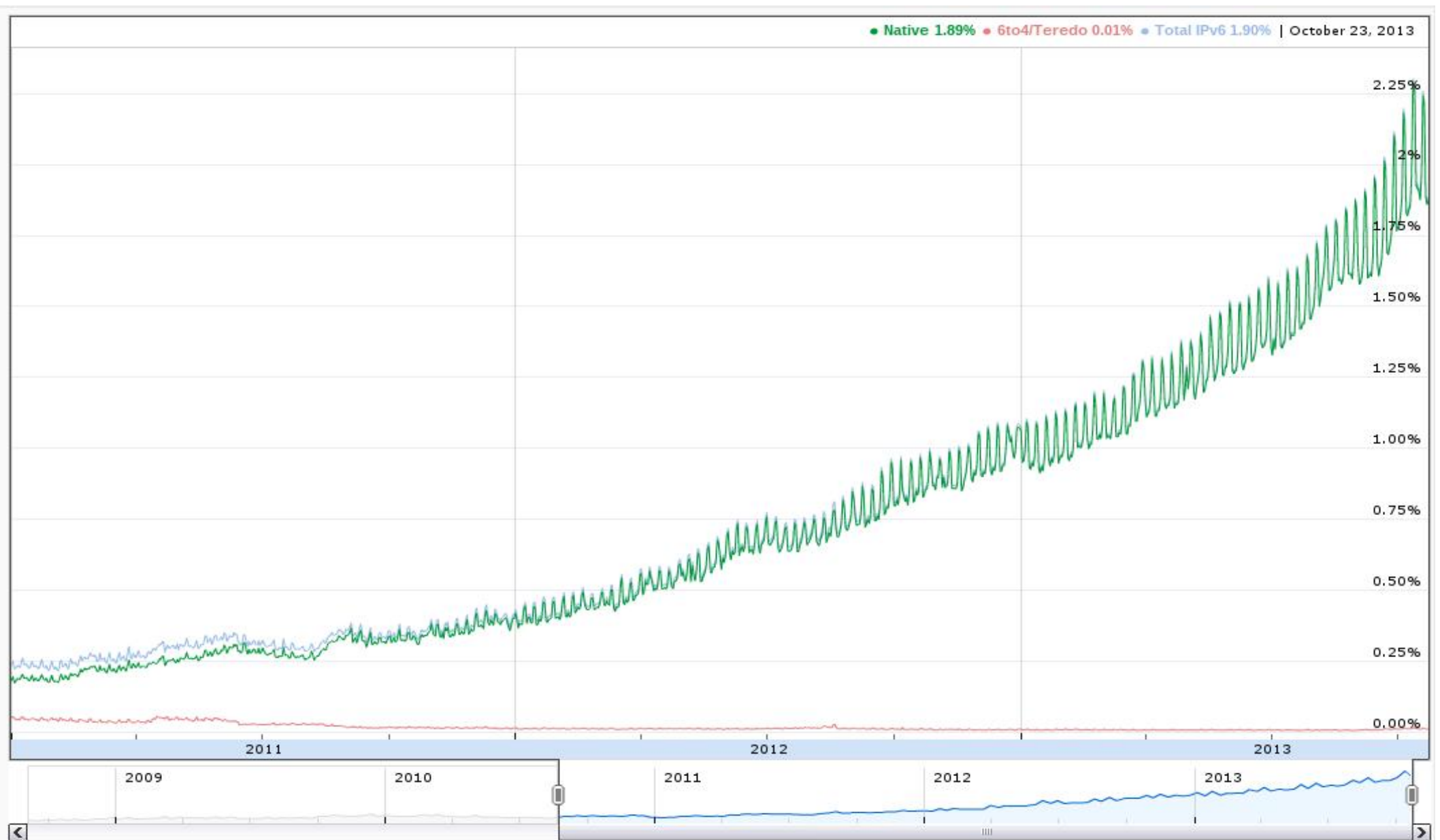
Die anderen stellen auch nicht um

Abwarten ist wirtschaftlich optimal

Auf das Optimum folgt der Niedergang

Warum IPv6?

<http://www.google.com/ipv6/statistics.html>



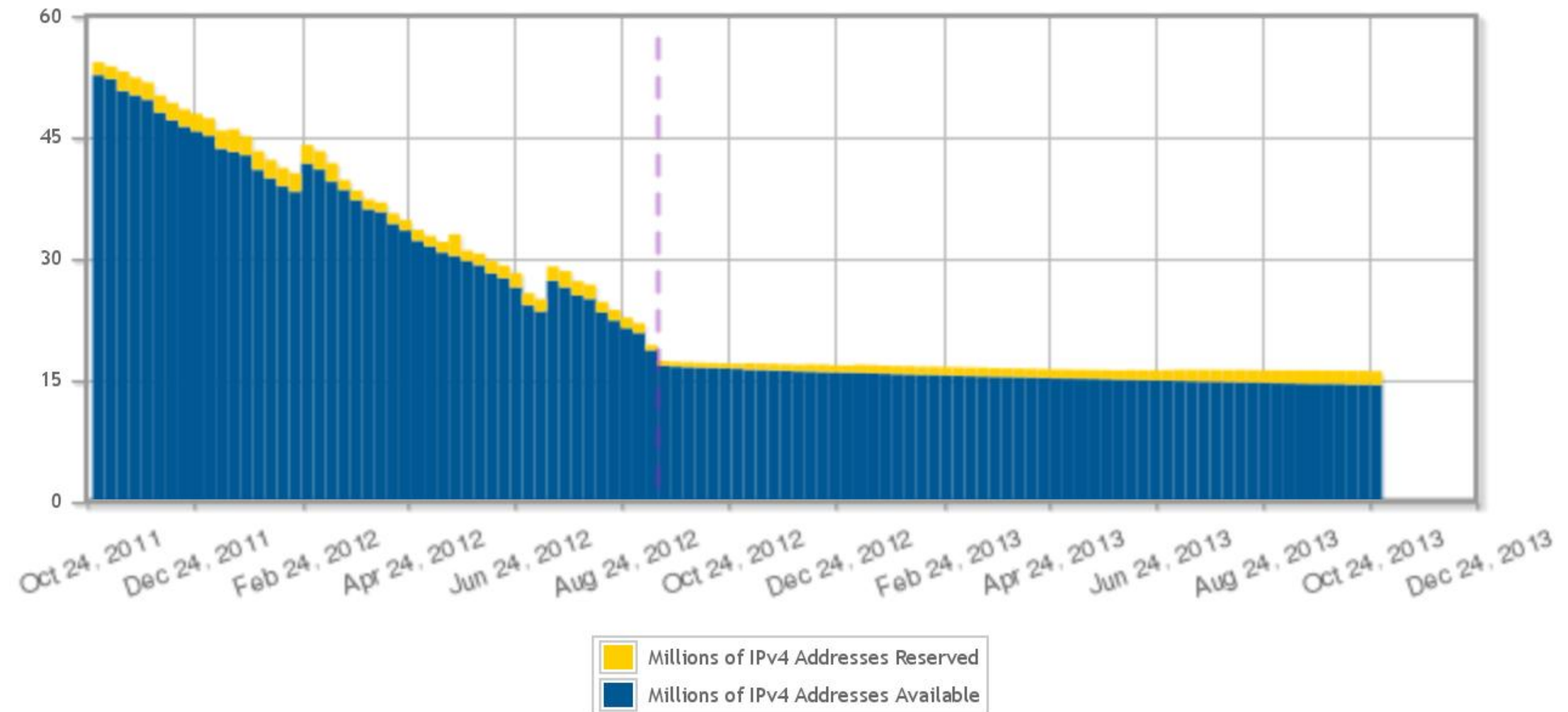


0 1/2 1/1

UNLEADED GASOLINE

<https://labs.ripe.net/statistics>

RIPE NCC IPv4 Pool — Last 24 Months



Network Address Translation



Carrier Grade NAT



Anmelden

Route berechnen

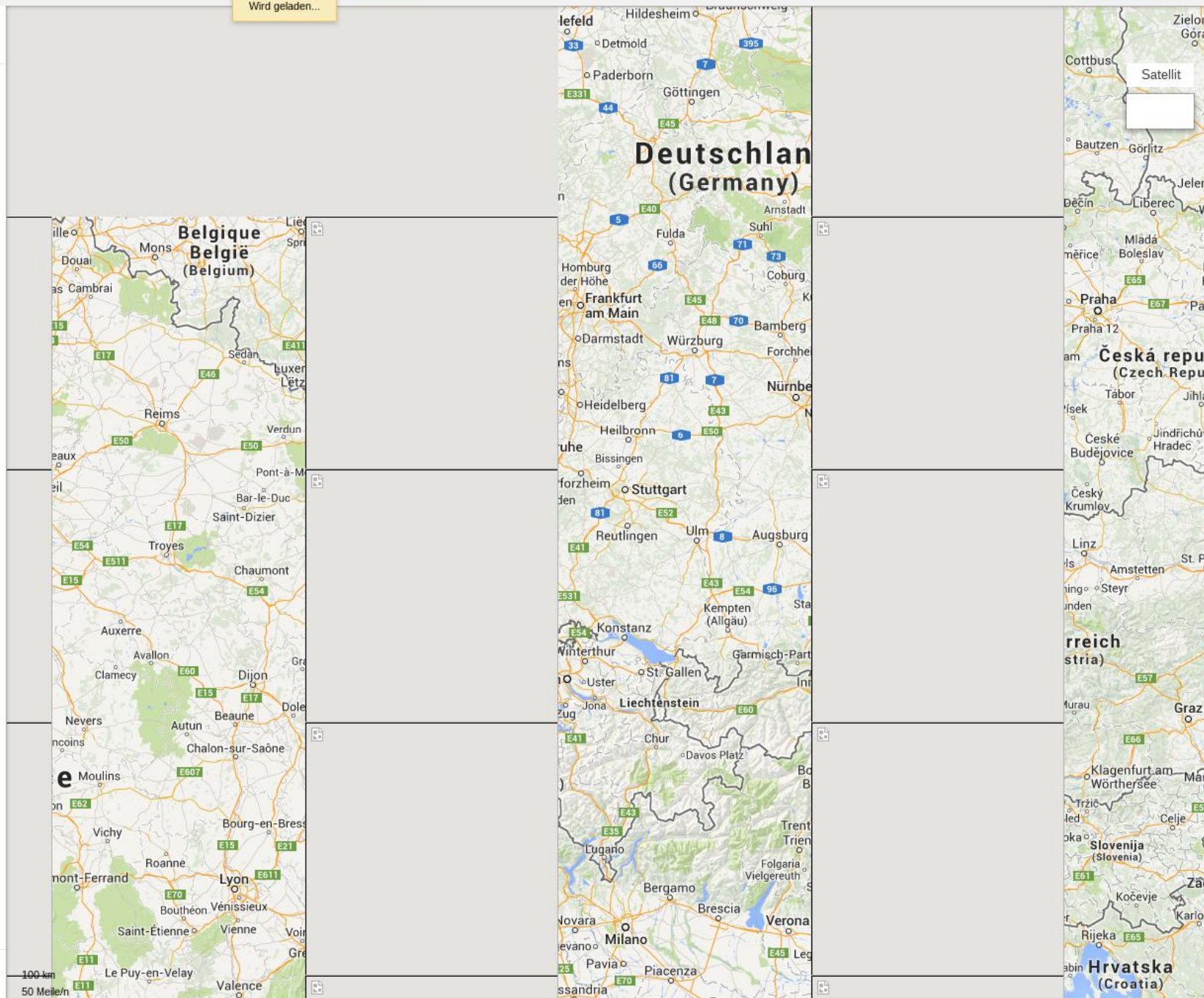
Meine Orte

Wird geladen...

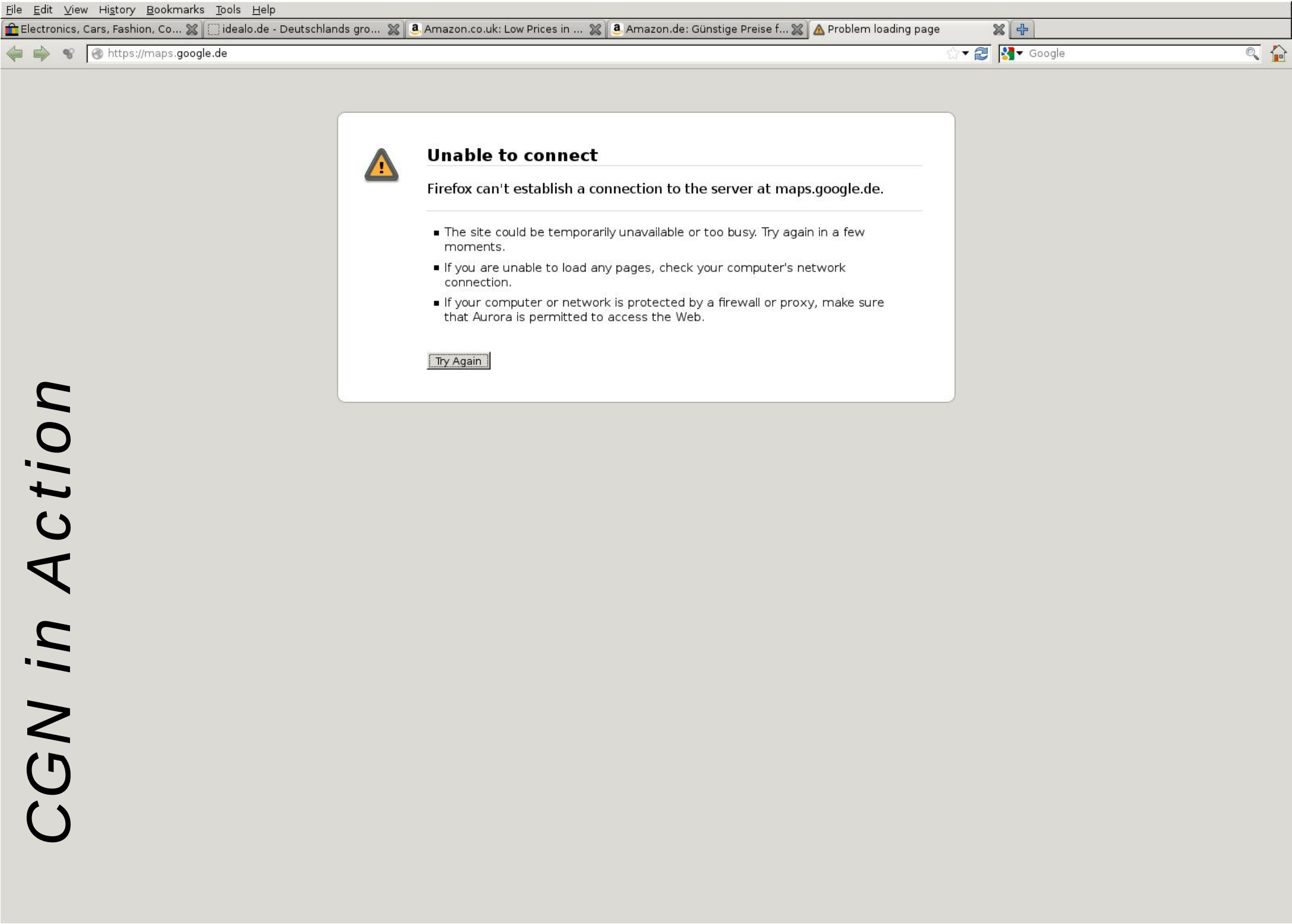
Baden-Württemberg

Nicht Ihr aktueller Standort? [Korrigieren](#)

Tragen Sie Ihr Unternehmen bei [Google Maps](#) ein.



CGN in Action



Unable to connect

Firefox can't establish a connection to the server at maps.google.de.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Aurora is permitted to access the Web.

Try Again



Shop by category

Enter your search keyword

All Categories

Search

[Advanced](#)

- [Hit Sign in](#) or [register](#)
- [Daily Deals](#)
- [Sell](#)
- [Customer Support](#)
- [Trending Collections](#)

- [My eBay](#)
- [Sell](#)
- [Customer Support](#)
- [Notifications](#)
- [Cart](#)

- [Motors](#)
 - Top categories
 - [Cars & Trucks](#)
 - [Motorcycles](#)
 - [Parts & Accessories](#)
 - Additional Resources
 - [Motors Blog](#)
 - [My Vehicles](#)
 - [Other Vehicles](#)
 - [Boats](#)
 - [Powersports](#)
- [Fashion](#)
 - Top categories
 - [Men's](#)
 - [Women's](#)
 - [Kids & Baby](#)
 - Shop for
 - [Jewelry & Watches](#)
 - [Handbags & Accessories](#)
 - [Health & Beauty](#)
 - [Sales & Events](#)
- [Electronics](#)
 - Top categories
 - [Cell Phones & Accessories](#)
 - [Cameras & Photo](#)
 - [Computers & Tablets](#)
 - Other categories
 - [Car Audio, Video & GPS](#)
 - [iPhone](#)
 - [iPad](#)
 - [TV, Audio & Surveillance](#)
 - [Video Games & Consoles](#)

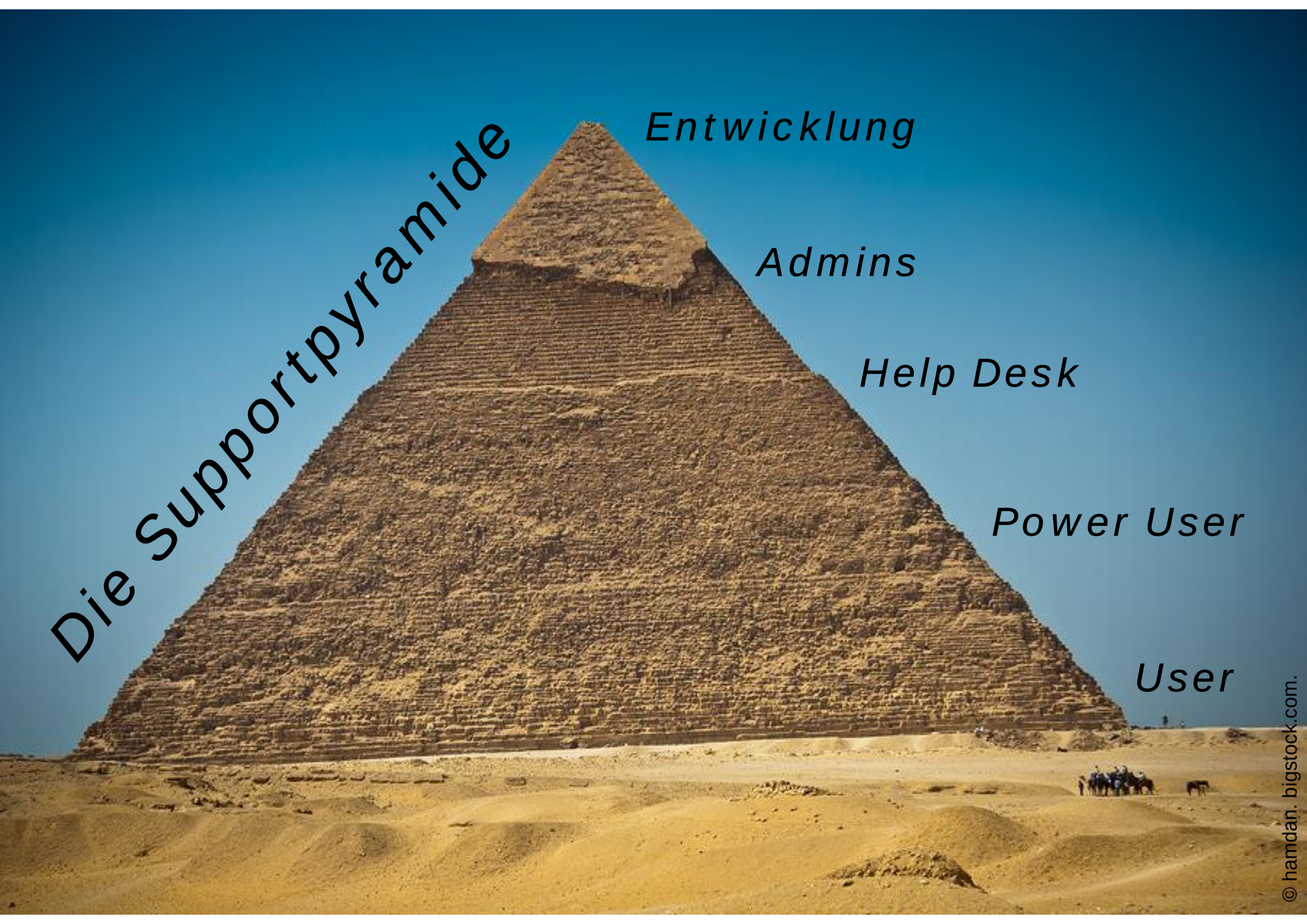
CGN in Action

IPv6 nativ

+

IPv4 über DS-Lite

IPv6 ≠ IPv4 !



Die Supportpyramide

Entwicklung

Admins

Help Desk

Power User

User

IPv6

User





IPo6

- * Die Grundlagen
- * Produkte
- * Sicherheit



Literaturhinweise

- ◆ **S. Hamdy: IPv6 - Die grundlegenden Funktionen, Bedrohungen und Maßnahmen. Secorvo Whitepaper, 2013.**
 - <http://www.secorvo.de/publikationen/secorvo-wp18.pdf>
- ◆ **C. Schmoll et al.: IPv6 – Migrationsleitfaden für die öffentliche Verwaltung, Bundesverwaltungsamt, 2013.**
 - http://www.bva.bund.de/DE/Organisation/Abteilungen/Abteilung_BIT/Leistungen/IT_Beratungsleistungen/IPv6/best_practice/ipv6migration_sleitfaden/download/fue_migrationsleitfaden.html
- ◆ **S. Hagen: IPv6 – Grundlagen, Funktionalität, Integration, 2. Auflage, Sunny Edition, 2009.**



Literaturhinweise

- ◆ **S. Frankel et al.: Guidelines for the Secure Deployment of IPv6, 2010, NIST Special Publication 800-119.**
 - <http://csrc.nist.gov/publications/nistpubs/800-119/sp800-119.pdf>
- ◆ **B. Stockebrand: IPv6 in Practice – A Unixer's Guide to the Next Generation Internet, Springer Verlag, 2010.**
- ◆ **J. Davies: Understanding IPv6, 3rd Edition, Microsoft Press, 2012. Frei verfügbar unter <http://it-ebooks.info/book/1022/>**
- ◆ **S. Hogg, E. Vyncke: IPv6 Security, Cisco Press, 2008.**

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