

Services in HAMNET

Internal Hosting

Domain Name Server (DNS)

IP-Koordination Germany provides three high-speed-connected Domain-Name-Hub-Servers (DNS-Hubs) on three separated locations allowing fast and redundant accessibility throughout all HAMNET Regions in Germany. These DNS-Hubs are authoritative for their own zones „*.de.ampr.org“ and „*.r1.ampr.org“. They also provide responding for „*.ampr.org“ and all other internet domains to clients originated in HAMNET and HAMCLOUD.

Hostname: **dl-sued.ampr.org**

IP-Address: **44.130.60.100**

UDP-Port: 53

TCP-Port: 53

responsible person: IP-Coordination Germany, Jann Traschewski, [DG8NGN](#)

Hostname: **dl-ost.ampr.org**

IP-Address: **44.130.90.100**

UDP-Port: 53

TCP-Port: 53

responsible person: IP-Coordination Germany, Thomas Osterried, [DL9SAU](#)

Hostname: **dl-west.ampr.org**

IP-Address: **44.149.28.10**

UDP-Port: 53

TCP-Port: 53

responsible person: IP-Coordination Germany, Egbert Zimmermann, [DD9QP](#)

Whois Server

IP-Coordination Germany provides a Whois-server in HAMNET containing informations about routing, hosts, networks, AS-numbers and responsible persons in German AMPRNet. It can be queried by a classical Whois-Client (terminal) or via a special web-frontend.

Hostname: **dl-west.ampr.org**

IP-Address: **44.149.28.10**

TCP-Port: 43

web-frontend:

<http://dl-west.ampr.org/wiki/whois>

responsible person: IP-Coordination Germany, Egbert Zimmermann, [DD9QP](#)

Routing in HAMNET

German  [HAMNET](#) is a semiclosed, ip-based high-speed-network. It is exclusively driven for hamradio-purposes and interconnected to the European-HAMNET and the worldwide AMPRNettm via several gateways. HAMNET is no replacement for internet! **German HAMNET prefers communication via fast rf-interlinks.** Every licenced ham throughout the world is invited to use resources of German HAMNET for ham-radio-use only. On our german rf-interlinks we provide transfer-speeds from 1Mbit/s up to 1Gbit/s.

BGP Protocol

In HAMNET we use, similar to the internet,  [BGP](#) as an automatic Exterior-Gateway-Protocol. It interconnects our  [autonomous Systems \(AS\)](#). In the German HAMNET such AS are put together by related regions. Every HAMNET-AS includes two or more locations (sites). Every site has minimum one BGP-speaking router ([Mikrotik](#) preferred). These router-groups are maintained by one or more AS-maintainers. Using BGP-protocol it is essential that every AS has its own, exclusively assigned AS-Number.

- [policy for using BGP in the German HAMNET](#)

AS-Numbers

Since august 2009 IP-Coordination Germany has started with allocations and assignments for AS-numbers in HAMNET. Every AS in the german HAMNET gets a 16-bit AS-number out of the private range 64620-64683. In [hamnetDB](#) such an AS is called „parent-AS“. Within every parent-AS there are up to 100 32-bit-AS-numbers available. A certain amount of IP-networks, separated into networks for backbone and user/services, get allocated and assigned to every Parent-AS.

- [learn more about AS-numbers and Autonomous Systems in the European HAMNET](#)
- [list of assigned AS-numbers and networks in the german HAMNET](#) (german)

IP-Networks

Für DL ist der alte IP-Netzblock **44.130.0.0/16** fest zugewiesen. Zusätzlich hat DL den IP-Nummernblock **44.148.0.0/15** von der [ARDC](#) für die Nutzung im HAMNET und der [HAMCLOUD](#) exklusiv zugewiesen bekommen. Die Nutzung für die einzelnen Bereiche wurde von der DL-IP-Koordination wie folgt festgelegt:

IP Netzblock	/24-Netze	Zuteilung	Nutzung
44.130.0.0/16	256	HAMNET	PR/NPR/Special Use
44.148.0.0/17	128	HAMNET	Backbone/Special Use
44.148.128.0/17	128	HAMCLOUD	Datacenters/Services
44.149.0.0/16	256	HAMNET	User/Services/Special Use

DNS System

- **Informations about our HAMNET-DNS-system**

[<-- Back](#)

From:

<http://www.de.ampr.org/> - **IP-Koordination DL**

Permanent link:

<http://www.de.ampr.org/en/hamnet>

Last update: **09.12.2020 21:08 Uhr**

