

Services in HamCloud

Internal Hosting

Domain Name Server (DNS)

IP-Coordination DL runs 1 Domain Name Server each in 3 separate datacenters throughout the country. They are responsible via one single anycast-ip-address. This leads to very fast and redundant reachability from out of the whole HAMNET. These nameservers are authoritative for our own zones „de.ampr.org“ and „r1.ampr.org“ and they are able to answer any questions for worldwide access to HAMNET-clients only.

Hostname: **ns.hc.r1.ampr.org**

IP-Address: **44.148.228.53**

responsible person: IP-Coordination Germany - Thomas Osterried, DL9SAU, dl9sau@darcl.de

Network Time Protocol (NTP)

IP-Coordination DL runs 1 network time protocol server each in 3 datacenters throughout the country. They are accessible by one single anycast-ip-address. This way redundant reachability from out of the whole HAMNET is guaranteed. The NTP-servers are synchronized by a ntp-server-pool within the internet which brings enough accuracy for clients and applications.

Hostname: **ntp.hc.r1.ampr.org**

IP-Address: **44.148.224.123**

responsible person: IP-Coordination Germany - Thomas Osterried, DL9SAU, dl9sau@darcl.de

Mikrotik Update Server

IP-Coordination DL runs a Mikrotik Update Server within HAMNET/HAMCLOUD. This server provides new updates just in time to HAMNET clients not having local internet access. Server can be used by creating static DNS-entries in a Mikrotik-device. For creating static entries you only have to cut and paste the following lines into a RouterOS-terminal on the device, followed by an upgrade and warm reboot:

```
/ip dns static add address=44.148.226.179 name=upgrade.mikrotik.com
/ip dns static add address=44.148.226.179 name=download2.mikrotik.com
/system package update install
(ab RouterOS v6.31)
```

Hostname: **mus.hc.r1.ampr.org**

IP-Address: **44.148.226.179**

responsible person: IP-Coordination Germany - Egbert Zimmermann, DD9QP, dd9qp@db0res.de

Whois Server

IP-Coordination DL maintains a Whois Server for delivery of informations about routing, hosts, networks, AS-numbers and responsible persons in the German AMPRNet™. Server can be reached with any whois-client. A web-interface is available as well.

Hostname: **whois.hc.r1.ampr.org**

IP-Address: **44.148.226.43**

Webfrontend:

<http://whois.hc.r1.ampr.org/services/whois/whois-search>

responsible person: IP-Coordination Germany - Egbert Zimmermann, DD9QP, dd9qp@db0res.de

Automatic Packet Reporting System (APRS)

APRS-servers (APRSC server-software) are available in three locally separated datacenters. Clientsoftware may choose one of them by round-robin-DNS-requests and then connects to **Automatic Packet Reporting System-Internet Service** (APRS-IS). All three APRS-servers are connected to the APRS Tier 2 Network (<http://www.aprs2.net>).

Hostname: **aprs.hc.r1.ampr.org**

IP-Addresses: **44.148.128.145, 44.148.144.145, 44.148.160.145**

TCP-Port: **14580** (Client-Defined Filters)

UDP-Port: 14580

UDP-Port: 8080 (UDP submit)

Status-Pages:

<http://aprs1.hc.r1.ampr.org:14501> (APRS-Server in datacenter 1)

<http://aprs2.hc.r1.ampr.org:14501> (APRS-Server in datacenter 2)

<http://aprs3.hc.r1.ampr.org:14501> (APRS-Server in datacenter 3)

responsible person: Hans-Jürgen Barthen, DL5DI

Access to Packet Radio Network via IGATE

Access to IGATE can be solved within HAMNET by using AXUDP-protocol. When client is setting up the AX.25-connection IGATE remembers its source-ip-address and source-UDP-port and AX.25-callsign until system is rebooted. Client can be connected via IGATE as long as IP-address and UDP-port of the AX.25-terminal does not change.

Hostname: **igate.hc.r1.ampr.org**

IP-Address: **44.148.230.93**

UDP-Port: **93**

AX.25-Rufzeichen: **IGATE**

responsible person: Jann Traschewski, DG8NGN, jann@gmx.de

Echolink Proxy Server

A lot of echolink proxy servers are available. All of them are listed on <http://www.echolink.org/proxylist.jsp>. Their internet-IP-address and their HAMNET-IP-address are listed in the comment-column (HAMCLOUDn). Password is PUBLIC and dest-tcp-port is 8100. Fixed proxys can be reserved and assigned to automatic repeater-stations. These proxies can reach echolink-stationen which use AMPRNet-IP-addresses (44.0.0.0/9 and 44.128.0.0.0/10) directly in the internet without any tunnels.

responsible person: Jann Traschewski, DG8NGN, jann@gmx.de

DMR Master - IPSC2

An IPSC2 DMR-Master is available in HAMCLOUD.

Hostname: **ipsc2.hc.r1.ampr.org**

IP-Address: **44.148.230.102**

Status-Seite: <http://ipsc2.hc.r1.ampr.org>

responsible person: Hans-Jürgen Barthen, DL5DI

DMR-Master - Brandmeister

A Brandmeister DMR-Master is available as well.

Hostname: **bm.hc.r1.ampr.org**

IP-Address: **44.148.230.201**

Status-pages:

<http://bm.hc.r1.ampr.org/status/list.htm> (Repeater List)

<http://bm.hc.r1.ampr.org/status/monitor.htm> (Monitor)

<http://bm.hc.r1.ampr.org/status/status.htm> (Status)

responsible persons: BM262-Team, <http://bm262.de>

External Hosting (Service is connected via Internet-Tunnel):

MQTT Server

We have a MQTT Server (<https://mqtt.org>) online

Hostname: **mqtt.hc.r1.ampr.org**

IP-Address: 44.148.237.2

responsible person: Michael Renner, DD0UL

Access HamnetDB

HamnetDB is reachable directly in HAMNET: <http://hamnetdb.hc.r1.ampr.org>

Hostname: hamnetdb.hc.r1.ampr.org IP-Address: 44.148.237.1

responsible person: Lucas Speckbacher, OE2LSP

HamCloud Documentation

Still a lot to do ...

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

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