

# DNS

## Which DNS records are there and what do I have to consider ?

Below you find an overview of the most used DNS records. Please note that not all records are usable in each package.

Faulty entries in the DNS can lead to inaccessibility.

RecordType: A  
Description: IPv4 address of a host  
Standards for target: must contain IP addresses only (IPv6) (IPv4)  
Example for target: 88.88.99.22  
Wikipedia link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

RecordType: AAAA  
Description: IPv6 address of a host  
Standards for target: must contain IP addresses only (IPv6)  
Example for target: 3efe:8124:3000:bf0::1

RecordType: AFSDB  
Description: Resource Record for Cell Database server of the Andrew File Systems  
Standards for target: #subtype hostname (where subtype has to be a number)

RecordType: CERT  
Description: Resource Record for saving certificates (RFC4398)  
Standards for target: (see RFC 4398)  
Further links: <http://tools.ietf.org/html/rfc4398>

RecordType: CNAME  
Description: defines an alias name for an existing DNS name  
Standards for target: Always must be a hostname (FQDN)  
Example for target: subdomain.domain.tld  
Wikipedia link: <http://en.wikipedia.org/wiki/CNAME>

RecordType: DNSKEY  
Description: contains a public key (DNSSEC) assigned to the name

Standards for target: ---  
Wikipedia-Link: <http://en.wikipedia.org/wiki/DNSKEY>

RecordType: DS  
Description: handles the linkage of DNSSEC signed zones (DNSSEC)  
standards for target: ---

RecordType: HINFO  
Description: Hardware Info Record  
Standards for target: text containing the used hardware for instance  
Example for target: i686 Linux

RecordType: KEY

# DNS

Description: contains a public key assigned to the name

Standards for target: see RFC 2535

Wikipedia link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

RecordType: LOC

Description: location / see RFC 1876

Standards for target: 51 51 0.123 N 5 52 0.000 E 4.00m 1.00m 10000.00m 10.00m

Wikipedia link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

RecordType: MX

Description: mail exchange – the mail server competent for the domain

Standards for target: hostname (no IP), use prio field for priority

Example for target: mx10.domain.tld

Wikipedia-Link: [http://en.wikipedia.org/wiki/MX\\_record](http://en.wikipedia.org/wiki/MX_record)

RecordType: NAPTR

Description: Naming Authority Pointer - expansion of the A Resource Record

Standards for target: entries in the order: order, preference, flags, service, regex, replacement

Example for target: '110 30 "s" "z3950+I2L+I2C" "" \_z3250.\_tcp.domain.tld'.

Wikipedia-Link: <http://en.wikipedia.org/wiki/NAPTR>

RecordType: NS

Description: hostname of an authoritative name server

Standards for target: hostname (FQDN), no IP

Example for target: ns1.domain.tld

Wikipedia-Link: [http://en.wikipedia.org/wiki/NS\\_record](http://en.wikipedia.org/wiki/NS_record)

RecordType: NSEC

Description: NSEC DNSSEC record type (DNSSEC)

Standards for target: ---

Wikipedia link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

RecordType: PTR

Description: Domain Name Pointer (for Reverse Mapping, assigning names to IP addresses)

Standards for target: ---

Wikipedia link: [http://en.wikipedia.org/wiki/PTR\\_record](http://en.wikipedia.org/wiki/PTR_record)

RecordType: RP

Description: responsible person (RFC 1183)

Standards for target: ---

Example for target: tim.domain.tld tim.people.domain.tld

Means that tim@domain.tld ist responsible and more information can be found in the TXT record "tim.people.domain.tld"

Wikipedia-Link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)

# DNS

RecordType: RRSIG  
Description: contains a digital signature (DNSSEC)  
Standards for target: ---  
Wikipedia link: <http://en.wikipedia.org/wiki/RRSIG>

RecordType: SPF  
Description: Sender Policy Framework  
Standards for target: see [www.openspf.org](http://www.openspf.org)  
Wikipedia link: [http://en.wikipedia.org/wiki/List\\_of\\_DNS\\_record\\_types](http://en.wikipedia.org/wiki/List_of_DNS_record_types)  
Wichtig: input in the customer center must be enclosed in inverted commas, e.g.,  
"v=spf1 ip4:85.31.185.13 a mx ~all"

RecordType: SSHFP  
Description: for Secure Shell (SSH) fingerprints  
Standards for target: an example from RFC 4255:  
'2 1 123456789abcdef67890123456789abcdef67890'

RecordType: SRV  
Description: offered service  
Standards for target: priority is set in the prio field, the rest in the target field  
Example for target: 100 389 mars.conaxis.ch  
Wikipedia-Link: [http://en.wikipedia.org/wiki/SRV\\_record](http://en.wikipedia.org/wiki/SRV_record)

RecordType: TXT  
Description: loosely definiable, also used for Sender Policy Framework (SPF)  
Standards for target: ---  
Wikipedia link: [http://en.wikipedia.org/wiki/TXT\\_record](http://en.wikipedia.org/wiki/TXT_record)  
Important: the entries **must not** be enclosed in inverted commas

## **Additional links:**

[Resource records at Wikipedia](#)

[DNS system at wikipedia](#)

Unique solution ID: #1321

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