



Server Statistics

This appendix provides the complete list of server statistics available in Cisco Prime Network Registrar. This chapter contains the following sections:

- [DNS Statistics, on page 1](#)
- [CDNS Statistics, on page 13](#)
- [DHCP Statistics, on page 17](#)

DNS Statistics

Following table provides the complete list of DNS server statistics available in Cisco Prime Network Registrar. For information on how to view these statistics using web UI and CLI, see [DNS Statistics](#).

Table 1: DNS Statistics

| Statistic | Description |
|--------------------------------------|--|
| DNS Server Statistics | |
| Server Identifier (id) | Identifies this DNS Server. |
| Recursive Service (config-recurs) | Describes the recursion services offered by this name server. Values are: <ul style="list-style-type: none">• available(1) - performs recursion on requests from clients.• restricted(2) - recursion is performed on requests only from certain clients, for example; clients on an access control list.• unavailable(3) - recursion is not available. |
| Process Uptime (config-up-time) | Reports the time elapsed since the DNS Server process was started. |
| Time Since Reset (config-reset-time) | Reports the time elapsed since the DNS Server was last reset (restarted). |

| Statistic | Description |
|--|--|
| Server Status (config-reset) | Describes the name server state. Possible values are: <ul style="list-style-type: none"> • other(1) - server in some unknown state; • initializing(3) - server (re)initializing; • running(4) - server currently running. |
| counter-reset-time | Reports the most recent time the server counters were reset by the dns resetStats command. |
| sample-time | Reports the time the server collected the last set of sample statistics. |
| Statistics Interval (sample-interval) | Reports the sample interval used by the server when collecting the last set of sample statistics. |
| statistics-request-time | Reports the time the server processed this request for statistics. |
| Total Zones (total-zones) | Reports the total number of zones managed by the DNS server, including both primary and secondary zones. |
| Total RRs (total-rrs) | Reports the total number of RRs in the server, contained in both primary and secondary zones. |
| DNS Server Performance Statistics | |
| packets-in | Reports the total number of packets received. |
| packets-out | Reports the total number of packets sent. |
| packets-in-udp | Reports the total number of UDP packets received. |
| packets-out-udp | Reports the total number of UDP packets sent. |
| packets-in-tcp | Reports the total number of TCP packets received. |
| packets-out-tcp | Reports the total number of TCP packets sent. |
| ipv4-packets-in | Reports the total number of IPv4 packets received. |
| ipv4-packets-out | Reports the total number of IPv4 packets sent. |
| ipv6-packets-in | Reports the total number of IPv6 packets received. |
| ipv6-packets-out | Reports the total number of IPv6 packets sent. |
| update-packets | Reports the number of successful DNS updates. |
| updated-rrs | Reports the total number of RRs added and deleted, including updates from the CPNR UIs, whether or not there were database errors. |
| notifies-in | Reports the number of inbound notifies. Each notify packet received is counted separately. |

| Statistic | Description |
|------------------------------------|--|
| notifies-out | Reports the number of outbound notifies. Each notify packet sent is counted separately. |
| ixfrs-in | Reports the number of successful inbound incremental transfers, including incremental requests that resulted in full zone transfers. |
| ixfrs-out | Reports the number of successful outbound incremental transfers. |
| ixfrs-full-resp | Reports the number of outbound full zone transfers in response to IXFR requests. These may have been due to IXFR errors, insufficient serial history, or too many changes in the zone. |
| axfrs-in | Reports the number of successful inbound AXFRs. |
| axfrs-out | Reports the number of successful outbound full zone transfers, including those counted in ixfrs-full-resp. |
| xfrs-in-at-limit | Reports the number of times that inbound transfers reached the concurrent limit. |
| xfrs-out-at-limit | Reports the number of times that outbound transfers reached the concurrent limit. |
| responses-with-NOTIMP | Reports the numbers of requests with OP codes that are not implemented. |
| DNS Server Query Statistics | |
| queries-total | Total number of queries received by the DNS Server. |
| queries-failed-acl | Reports the number of query ACL (<i>restrict-query-acl</i>) failures. |
| queries-over-udp | Total number of queries received over UDP by the DNS Server. |
| queries-over-tcp | Total number of queries received over TCP by the DNS Server. |
| queries-over-ipv4 | Total number of IPv4 queries received by the DNS Server. |
| queries-over-ipv6 | Total number of IPv6 queries received by the DNS Server. |
| queries-over-tls | Total number of queries received over TLS by the DNS Server. |
| queries-over-tls-failed | Total number of TLS queries failed during TLS handshake. |
| queries-with-edns | Reports the number of OPT RR packets processed. |
| queries-type-A | Number of A queries received. |
| queries-type-AAAA | Number of AAAA queries received. |
| queries-type-ANY | Number of ANY queries received. |
| queries-type-CNAME | Number of CNAME queries received. |

| Statistic | Description |
|---------------------------------|---|
| queries-type-PTR | Number of PTR queries received. |
| queries-type-MX | Number of MX queries received. |
| queries-type-NAPTR | Number of NAPTR queries received. |
| queries-type-NS | Number of NS queries received. |
| queries-type-SOA | Number of SOA queries received. |
| queries-type-SRV | Number of SRV queries received. |
| queries-type-TXT | Number of TXT queries received. |
| queries-type-DNSKEY | Number of DNSKEY queries received. |
| queries-type-DS | Number of DS queries received. |
| queries-type-RRSIG | Number of RRSIG queries received. |
| queries-type-NSEC | Number of NSEC queries received. |
| queries-type-CAA | Number of CAA queries received. |
| queries-type-URI | Number of URI queries received. |
| queries-type-other | All other queries received. |
| queries-rpz | Reports the number of queries for Response Policy Zones (RPZ). |
| queries-dnssec | Reports the total number of queries requesting that responses to include DNSSEC related RRs (EDNS option DO bit). |
| query-answers-total | Reports the total number of query responses. |
| query-answers-with-NOERROR | Reports the number of queries that were authoritatively answered. |
| query-answers-with-NXDOMAIN | Reports the number of queries that failed with no such name responses. |
| query-answers-with-NODATA | Reports the number of queries that failed with no data (empty answer) responses. |
| query-answers-with-REFUSED | Reports the number of queries refused. |
| query-answers-with-NOTAUTH | Reports the number of queries that failed with not authoritative responses. |
| query-answers-with-FORMERR | Reports the number of query responses with rcode of FORMERR. |
| query-answers-with-SERVFAIL | Reports the number of query responses with rcode of SERVFAIL. |
| query-answers-with-referral | Reports the number of requests that were referred to other servers. |
| query-answers-with-other-errors | Reports the number of queries with other errors. |

| Statistic | Description |
|-------------------------------------|--|
| query-answers-rpz-hits | Reports the number of RPZ queries that matched RRs in Response Policy Zones. |
| query-answers-rpz-misses | Reports the number of RPZ queries that did not match RRs in Response Policy Zones. |
| queries-dropped | Reports the number of non-error dropped packets. Queries restricted by server, TSIG, or update policies are included, but DNS updates, xfer requests, and notifies are excluded. |
| queries-dropped-recursive | Number of recursive queries dropped. |
| queries-dropped-unwanted-class | Total number of queries dropped due to unwanted classes. Only queries of class IN are allowed. |
| queries-dropped-unwanted-type | Total number of queries dropped due to unwanted types. Unwanted RR types are specified in the <i>query-types-unwanted</i> DNS server attribute. |
| cache-hits | Reports the number of times incoming client queries were found in the query cache. |
| cache-misses | Reports the number of times incoming client queries were not found in the query cache. |
| DNS Server Update Statistics | |
| update-total | Total number of updates received by the DNS server. |
| update-total-rrs | The total number of RRs updated by DNS update requests. |
| update-failed-acl | Total number of updates that refused due to failing ACL and/or Update Policy authorization. |
| update-dropped | Total number of updates that are dropped by the DNS server. |
| update-prereq-only | Total number of prereq-only updates received by the DNS server. |
| update-simulated | Total number of updates that are simulated. Simulated RR updates return a NOERROR response, but don't cause any RR changes. |
| update-over-udp | Total number of updates received over UDP. |
| update-over-tcp | Total number of updates received over TCP. |
| update-over-ipv4 | Total number of updates received over IPv4. |
| update-over-ipv6 | Total number of updates received over IPv6. |
| update-delete | Total number of RRs deleted by DNS update. |
| update-add | Total number of RRs added by DNS update. |
| update-refresh | Total number of RRs refreshed by DNS update. |

| Statistic | Description |
|---------------------------------------|--|
| update-type-A | Total number of updates for A records. |
| update-type-AAAA | Total number of updates for AAAA records. |
| update-type-DHCID | Total number of updates for DHCID records. |
| update-type-TXT | Total number of updates for TXT records. |
| update-type-other | Total number of updates for all other record types that are not specifically counted. |
| update-resp-total | Total number of update responses returned by the DNS server. |
| update-resp-NOERROR | Total number of update responses with rcode of NOERROR. |
| update-resp-failures | Total number of updates that failed. |
| update-resp-REFUSED | Total number of update responses with rcode of REFUSED. |
| update-resp-NOTAUTH | Total number of update responses with rcode of NOTAUTH. |
| update-resp-NOTZONE | Total number of update responses with rcode of NOTZONE. |
| update-resp-FORMERR | Total number of update responses with rcode of FORMERR. |
| update-resp-SERVFAIL | Total number of update responses with rcode of SERVFAIL. |
| update-resp-prereq-failures | Total number of update responses with prereq failures (YXDOMAIN, YXRRSET, NXDOMAIN, NXRRSET). |
| update-resp-YXDOMAIN | Total number of update responses with rcode of YXDOMAIN. |
| update-resp-YXRRSET | Total number of update responses with rcode of YXRRSET. |
| update-resp-NXDOMAIN | Total number of update responses with rcode of NXDOMAIN. |
| update-resp-NXRRSET | Total number of update responses with rcode of NXRRSET. |
| DNS Server Security Statistics | |
| rcvd-tsig-packets | Reports the number of TSIG RR packets processed, if TSIG processing is enabled for the type of packet. |
| detected-tsig-bad-time | Reports the number of bad timestamps in incoming TSIG packets. |
| detected-tsig-bad-key | Reports the number of bad keynames (those with an invalid or unknown key) in incoming TSIG packets. |
| detected-tsig-bad-sig | Reports the number of bad signatures in incoming TSIG packets. |
| rcvd-tsig-bad-time | Reports the number of BADTIME errors received after sending a TSIG packet. |

| Statistic | Description |
|-------------------------------------|--|
| rcvd-tsig-bad-key | Reports the number of BADKEY errors received after sending a TSIG packet. |
| rcvd-tsig-bad-sig | Reports the number of BADSIG errors received after sending a TSIG packet. |
| unauth-xfer-reqs | Reports the number of ACL authorization failures in zone transfers. |
| unauth-update-reqs | Reports the number of ACL authorization failures in DNS updates. Administrative RR updates (from CPNR UIs) are excluded. |
| restrict-query-acl | Reports the number of ACL authorization failures in DNS queries. |
| acl-blocklist-dropped-requests | Reports the number of DNS requests dropped by the server subject to <i>acl-blocklist</i> . |
| dnssec-zones | Reports the number of zones with DNSSEC enabled. |
| dnssec-sign-zone | Reports the number of times the server signed a DNSSEC zone. |
| dnssec-queries | Reports the total number of queries requesting that responses to include DNSSEC related RRs (EDNS option DO bit). |
| dnssec-responses | Reports the total number of responses to DNNSEC enabled queries (EDNS option DO bit). |
| dnssec-requests-dropped | Reports the total number of DNS requests that were dropped due to the server being in the process of signing a DNSSEC zone. |
| tls-queries | Total number of queries received over TLS by the DNS Server. |
| tls-queries-failed | Total number of TLS queries failed during TLS handshake. |
| dos-potential | Total number of detected events that may signal a DoS attack. Queries that are dropped due to unwanted classes and/or type will increment this statistic. |
| DNS Server Errors Statistics | |
| update-errors | Reports the total number of updates resulting in errors. This excludes negative responses to update prerequisite checks, and TSIG responses. Both update packets and updates generated by the CNR UIs may be included in this count. |
| update-prereq-failures | Reports the total number of updates resulting in prerequisite failures. |
| ixfr-in-errors | Reports the total in-bound IXFR errors, excluding packet format errors. |
| ixfr-out-errors | Reports the total IXFR error responses sent, excluding packet format errors. |
| axfr-in-errors | Reports the total in-bound AXFR errors, excluding packet format errors. |

| Statistic | Description |
|--|--|
| axfr-out-errors | Reports the total AXFR error responses sent, excluding packet format errors. |
| sent-total-errors | Reports the total number of requests the server answered with errors (RCODE values other than 0,3,6,7, and 8). See RFC 1611. |
| sent-format-errors | Reports the number of requests received that were unparseable. See RFC 1611. |
| sent-refusal-errors | Reports the number of requests that resulted in REFUSED. See RFC1611. |
| xfer-in-auth-errors | Reports the number of secondary IXFR/AXFR requests that were refused because of authorization errors. |
| xfer-failed-attempts | Reports the number of secondary IXFR/AXFR failures, excluding authorization refusals. |
| exceeded-max-dns-packets | Reports the number of times inbound packets exceeded the maximum DNS packets defined by <i>max-dns-packets</i> . |
| DNS Server Max Counter Statistics | |
| concurrent-xfrs-in | Reports the maximum number of concurrent threads processing inbound transfers during the last sampling period. |
| concurrent-xfrs-out | Reports the maximum number of concurrent threads processing outbound transfers during the last sampling period. |
| ha-batch-count-limit | Reports the number of times the ha-dns-max-batch-count limit was reached during the last sampling period. |
| ha-rr-pending-list | Reports the maximum number of RRs in the pending List, waiting acknowledgement from the HA DNS backup server, during the last sampling period. |
| ha-rr-active-list | Reports the maximum number of RRs in the active list, waiting to be sent to the HA DNS backup server, during the last sampling period. |
| ha-persisted-edit-list | Reports the maximum number of names persisted in the edit list database during the last sampling period. |
| ha-update-latency-max | Reports the maximum DNS update latency in seconds, during the last sampling period. Latency is measured as the time an update remains in the pending List. |
| dns-concurrent-packets | Reports the maximum number of concurrent packets processed by the DNS server during the sampling period. |
| DNS Server Host Health Check Statistics | |
| hhc-domains | Reports the total number of domains checked for ping and gtp-echo Host Health Check. |

| Statistic | Description |
|-----------------------------|--|
| hhc-domains-failed | Reports the total number of domains check failed for ping and gtp-echo Host Health Check. When all the RRs in the RR set are down, this stat is incremented. |
| hhc-domains-passed | Reports the total number of domains check passed for ping and gtp-echo Host Health Check. Any A/AAAA RR in the RR set is up, this stat is incremented. |
| hhc-rrs | Reports the total number of RRs checked for ping and gtp-echo Host Health Check. |
| hhc-rrs-passed | Reports the total number of RRs that have passed ping and gtp-echo health check. |
| hhc-rrs-failed | Reports the total number of RRs that have failed ping and gtp-echo health check. |
| hhc-ping-domains | Reports the total number of domains checked for ping Host Health Check. |
| hhc-ping-domains-failed | Reports the total number of domains check failed for ping Host Health Check. When all the RRs in the RR set are down, this stat is incremented. |
| hhc-ping-domains-passed | Reports the total number of domains check passed for ping Host Health Check. When any RR in the RR set is up, this stat is incremented. |
| hhc-ping-rrs | Reports the total number of RRs checked for ping Host Health Check. |
| hhc-ping-rrs-failed | Reports the total number of RRs that have failed ping Host Health Check health check. |
| hhc-ping-rrs-passed | Reports the total number of RRs that have passed ping Host Health Check health check. |
| hhc-gtp-echo-domains | Reports the total number of domains checked for gtp-echo Host Health Check. |
| hhc-gtp-echo-domains-failed | Reports the total number of domains check failed for gtp-echo Host Health Check. When all the RRs in the RR set are down, this stat is incremented. |
| hhc-gtp-echo-domains-passed | Reports the total number of domains check passed for gtp-echo Host Health Check. When any RR in the RR set is up, this stat is incremented. |
| hhc-gtp-echo-rrs | Reports the total number of RRs checked for gtp-echo Host Health Check. |
| hhc-gtp-echo-rrs-failed | Reports the total number of RRs that have failed gtp-echo Host Health Check health check. |

| Statistic | Description |
|------------------------------------|---|
| hhc-gtp-echo-rrs-passed | Reports the total number of RRs that have passed gtp-echo Host Health Check health check. |
| DNS Server DB Statistics | |
| rrdb-txn | Reports the total number of RR DB database transactions. |
| rrdb-txn-commits | Reports the total number of RR DB database transactions committed. |
| rrdb-txn-aborts | Reports the total number of RR DB database transactions aborted. |
| rrdb-reads | Reports the total number of RR DB read operations. |
| rrdb-writes | Reports the total number of RR DB write operations. |
| rrdb-deletes | Reports the total number of RR DB delete operations. |
| rrdb-check-pts | Reports the total number of RR DB check point operations. |
| rrdb-log-purges | Reports the total number of RR DB log purge operations. |
| rrdb-log-purges-count | Reports the total number of RR DB logs purged. |
| csetq-count | Reports the total of number of change sets queued up to be written to the cset DB. |
| csetdb-txn | Reports the total number of CSET DB database transactions. |
| csetdb-txn-commits | Reports the total number of CSET DB database transactions committed. |
| csetdb-txn-aborts | Reports the total number of CSET DB database transactions aborted. |
| csetdb-reads | Reports the total number of CSET DB read operations. |
| csetdb-writes | Reports the total number of CSET DB write operations. |
| csetdb-deletes | Reports the total number of CSET DB delete operations. |
| csetdb-csets-trimmed | Reports the total number of change sets trimmed from the CSET DB by the history trimming process or by inline trimming. |
| csetdb-check-pts | Reports the total number of CSET DB check point operations. |
| csetdb-log-purges | Reports the total number of CSET DB log purge operations. |
| csetdb-log-purges-count | Reports the total number of CSET DB logs purged. |
| DNS Server Cache Statistics | |
| cache-size | Reports the size of in in-memory query cache in bytes. |
| cache-records | Reports the total number of RR name sets stored in the query cache. |
| cache-rrs | Reports the total number of RRs stored in the query cache. |

| Statistic | Description |
|---------------------------------|--|
| cache-nxdomain | Reports the total number of NXDOMAIN entries in the query cache. |
| cache-hits | Reports the number of times incoming client queries were found in the query cache. |
| cache-misses | Reports the number of times incoming client queries were not found in the query cache. |
| cache-full | Reports the number of times the query cache was found to be at its configured limit (<i>mem-cache-size</i>). |
| DNS Server HA Statistics | |
| ha-state-current | Current HA server state. |
| ha-state-last-change-time | Last time when HA state changed. |
| ha-state-startup | Number of occurrences where the server enters Startup State (HA_STARTUP). |
| ha-state-negotiating | Number of occurrences where the server enters the Negotiating state (HA_STATE_NEGOTIATING). |
| ha-state-normal | Number of occurrences where the server enters Normal State (HA_NORMAL). |
| ha-state-comm-interrupted | Number of occurrences where the server enters the communication-interrupted state (HA_STATE_COMMINTR). |
| ha-state-partner-down | Number of occurrences where the server enters the partner-down state (HA_STATE_PARTNERDOWN). |
| ha-msg-req-sent | Number of HA request messages sent to the HA partner. |
| ha-msg-req-sent-time | Specifies the date and time the HA server last sent a request message to the HA partner. |
| ha-msg-req-recv | Number of HA request messages received from the HA partner. |
| ha-msg-req-recv-time | Specifies the date and time the HA server last received a request message from the HA partner. |
| ha-msg-connect-recv | Number of connection establishment request messages received (HA_DNS_ESTABLISH_CONNECTION). |
| ha-msg-connect-sent | Number of connection establishment request messages sent (HA_DNS_ESTABLISH_CONNECTION). |
| ha-msg-heartbeat-recv | Number of heartbeat request messages received (HA_DNS_HEARTBEAT). |
| ha-msg-heartbeat-sent | Number of heartbeat request messages sent (HA_DNS_HEARTBEAT). |

| Statistic | Description |
|-----------------------|--|
| ha-msg-reconcile-recv | Number of zone reconciliation request messages received (HA_DNS_RECONCILIATION). |
| ha-msg-reconcile-sent | Number of zone reconciliation request messages sent (HA_DNS_RECONCILIATION). |
| ha-msg-resp-recv | Number of response messages received. Response messages are used to acknowledge all types of request messages. |
| ha-msg-resp-sent | Number of response messages sent. Response messages are used to acknowledge all types of request messages. |
| ha-msg-rrsync-recv | Number of rr-sync messages request received (HA_DNS_RR_SYNC). |
| ha-msg-rrsync-sent | Number of rr-sync request messages sent (HA_DNS_RR_SYNC). |
| ha-msg-rrupdate-recv | Number of rr-update request messages received (HA_DNS_RR_UPDATE). |
| ha-msg-rrupdate-sent | Number of rr-update request messages sent (HA_DNS_RR_UPDATE). |
| ha-msg-zonesync-recv | Number of zone synchronization request messages received (HA_DNS_ZONE_SYNC). |
| ha-msg-zonesync-sent | Number of zone synchronization request messages sent (HA_DNS_ZONE_SYNC). |
| ha-msg-shutdown-recv | Number of shutdown request messages received. |
| ha-msg-shutdown-sent | Number of shutdown request messages sent. |
| ha-resp-inconsistent | Number of responses reporting an inconsistent server state (HA_DNS_RESP_ERR_INCONSISTENT_STATE). |
| ha-sync-conflict | Number of zones with name conflicts during nameset reconciliation. |
| ha-sync-discard-name | Number of name conflicts where one nameset must be discarded to synchronize the zone. |
| ha-sync-merge-name | Number of name conflicts which the namesets can be merged to synchronize the zone. |
| ha-full-zone-resync | Number of zones requiring full-zone resynchronization for nameset reconciliation. |
| ha-zone-mismatch | Number of zones reporting a mismatch error (HA_DNS_RESP_ERR_MISMATCH). |
| ha-resp-servfail | Number of responses reporting a server failure error (HA_DNS_RESP_ERR_SERVFAIL). |
| ha-resp-unknown | Number of responses with an unknown message type (HA_DNS_RESP_ERR_UNKNOWN_MSG_TYPE). |

| Statistic | Description |
|-----------------------------------|---|
| ha-update-reject | Number of DNS updates rejected by the server. |
| DNS Server IPv6 Statistics | |
| ipv6-packets-in | Total number of IPv6 packets received. |
| ipv6-packets-out | Total number of IPv6 packets sent. |

CDNS Statistics

Following table provides the complete list of CDNS server statistics available in Cisco Prime Network Registrar. For information on how to view these statistics using web UI and CLI, see [CDNS Statistics](#).

Table 2: CDNS Statistics

| Statistic | Description |
|---------------------------------------|--|
| CDNS Server Statistics | |
| Server Identifier (name) | Name identifying the DNS Caching Server. |
| Recursive Service (config-recurs) | Recursion services offered by this name server. |
| Current Time (time-current) | Current time given by the CDNS Server. |
| Process Up (time-up) | Amount of time the server has been up and running. |
| Server Restart Time (restart-time) | Time when the DNS Caching Server was last restarted or reloaded. |
| Counter Reset Time (reset-time) | The most recent time the stats were reset (that is, cdns resetStats in CLI). |
| Sample Time (sample-time) | Time the server collected the last set of sample statistics. |
| Statistics Interval (sample-interval) | Sample interval used by the server when collecting sample statistics. |
| Time Since Last Poll (time-elapsed) | Time elapsed since last statistics poll. |
| queries-total | Total number of queries received by the CDNS Server. |
| queries-failing-acl | Number of queries being dropped or refused due to ACL failures. |
| recursive-replies-total | Total number of recursive queries replies. |
| recursive-time-average | Average time to complete a recursive query. |
| recursive-time-median | The median time to complete a recursive query. |
| immediate-response-count | The number of responses sent without recursion. |
| immediate-response-average | The average time, in microseconds to respond to a query when no recursion is needed. |

| Statistic | Description |
|---------------------------------|--|
| immediate-response-median | The median time, in microseconds, to respond to a query when no recursion is needed. |
| exceeded-max-target-count | Number of queries that exceeded the maximum number of name servers glue lookups allowed. |
| requestlist-total | Total number of queued requests waiting for recursive replies. |
| answers-secure | Number of answers that correctly validated. |
| answers-unsecure | Number of answers that did not correctly validate. |
| tls-errors-in | Total number of TLS related errors on inbound DNS query attempts. |
| tls-errors-out | Total number of TLS related errors on outbound DNS query attempts. |
| Query Details Statistics | |
| queries-over-tcp | Total number of queries received over TCP by the CDNS Server. |
| queries-over-ipv6 | Total number of queries received over TCP by the CDNS Server. |
| queries-over-tls | Total number of queries received over TLS by the CDNS Server. |
| queries-with-edns | Number of queries with EDNS OPT RR present. |
| queries-with-edns-do | Number of queries with EDNS OPT RR with DO (DNSSEC OK) bit set. |
| queries-with-flag-QR | Number of incoming queries with QR (query response) flag set. These queries are dropped. |
| queries-with-flag-AA | Number of incoming queries with AA (auth answer) flag set. These queries are dropped. |
| queries-with-flag-TC | Number of incoming queries with TC (truncation) flag set. These queries are dropped. |
| queries-with-flag-RD | Number of incoming queries with RD (recursion desired) flag set. |
| queries-with-flag-RA | Number of incoming queries with RA (recursion available) flag set. |
| queries-with-flag-Z | Number of incoming queries with Z flag set. |
| queries-with-flag-AD | Number of incoming queries with AD flag set. |
| queries-with-flag-CD | Number of incoming queries with CD flag set. |
| queries-type-A | Number of A queries received. |
| queries-type-AAAA | Number of AAAA queries received. |
| queries-type-ANY | Number of ANY queries received. |

| Statistic | Description |
|----------------------------------|--|
| queries-type-CNAME | Number of CNAME queries received. |
| queries-type-PTR | Number of PTR queries received. |
| queries-type-NS | Number of NS queries received. |
| queries-type-SOA | Number of SOA queries received. |
| queries-type-MX | Number of MX queries received. |
| queries-type-DS | Number of DS queries received. |
| queries-type-DNSKEY | Number of DNSKEY queries received. |
| queries-type-RRSIG | Number of RRSIG queries received. |
| queries-type-NSEC | Number of NSEC queries received. |
| queries-type-NSEC3 | Number of NSEC3 queries received. |
| queries-type-other | Number of queries received of type 256+. |
| smart-cache | Total number of times the CDNS Server employed a smart-cache response, when smart-cache is enabled. |
| Answer Details Statistics | |
| answers-with-NOERROR | Number of answers from cache or recursion that result in rcode of NOERROR being returned to client. |
| answers-with- NXDOMAIN | Number of answers from cache or recursion that result in rcode of NXDOMAIN being returned to client. |
| answers-with-REFUSED | Number of answers from cache or recursion that result in rcode of REFUSED being returned to client. |
| answers-with-SERVFAIL | Number of answers from cache or recursion that result in rcode of SERVFAIL being returned to client. |
| answers-with-FORMERR | Number of answers from cache or recursion that result in rcode of FORMERR being returned to client. |
| answers-with-NOTAUTH | Number of answers from cache or recursion that result in rcode of NOTAUTH being returned to client. |
| answers-with-NOTIMP | Number of answers from cache or recursion that result in rcode of NOTIMP being returned to client. |
| answers-with-NODATA | Number of answers that result in pseudo rcode of NODATA being returned to client. |
| answers-with-other-errors | Number of answers that result in pseudo rcode of NODATA being returned to client. |

| Statistic | Description |
|-------------------------------|--|
| answers-rrset-unsecure | Number of RRSets marked as bogus by the validator. |
| answers-unwanted | Number of replies that were unwanted or unsolicited. High values could indicate spoofing threat. |
| queries-unwanted-class | Total number of queries with an unwanted classes. |
| Performance Statistics | |
| cache-hits | Total number of queries that were answered from cache. |
| cache-misses | Total number of queries that were not found in the cache. |
| cache-prefetches | Number of prefetches performed. |
| mem-query-cache-exceeded | Number of times the message cache has gone over the configured limit. This indicates that the configured limit may be undersized for its environment. |
| mem-cache-exceeded | Number of times the RRSets cache has gone over the configured limit. This indicates that the configured limit may be undersized for its environment. |
| remote-ns-cache-exceeded | Number of times the remote name server cache has gone over the configured limit. This indicates that the configured limit may be undersized for its environment. |
| key-cache-exceeded | Number of times the key cache has gone over the configured limit. This indicates that the configured limit may be undersized for its environment. |
| requestlist-total-user | Total number of queued user requests waiting for recursive replies. |
| requestlist-total-system | Total number of queued system requests waiting for recursive replies. |
| requestlist-total-average | Average number of requests on the request list. |
| requestlist-total-max | Maximum number of requests on the request list. |
| requestlist-total-overwritten | Number of requests on the request list that were overwritten by newer entries. |
| requestlist-total-exceeded | Number of requests dropped because the request list was full. |
| mem-process | An estimate of the memory in bytes of the CDNS process. |
| mem-cache | Memory in bytes of RRSets cache. |
| mem-query-cache | Memory in bytes of incoming query message cache. |
| mem-iterator | Memory in bytes used by the CDNS iterator module. |
| mem-validator | Memory in bytes used by the CDNS validator module. |

| Statistic | Description |
|---------------------------------|--|
| DNS64 Statistics | |
| dns64-a2aaaa-conversions | Number of times DNS64 has converted a type A RR to a type AAAA RR. |
| dns64-ptr-conversions | Number of times DNS64 has converted an IPv4 PTR RR to an IPv6 PTR RR. |
| Firewall Statistics | |
| firewall-dropped | Number of times DNS Firewall dropped a query. |
| firewall-redirected | Number of times DNS Firewall redirected a query. |
| firewall-refused | Number of times DNS Firewall refused a query. |
| firewall-redirect-nxdomain | Number of times DNS Firewall redirected a query with an NXDOMAIN answer. |
| firewall-rpz | Number of times DNS Firewall RPZ rules matched an incoming query. |
| Rate Limiting Statistics | |
| client-rate-limit | Number of times a client has been rate limited, when <i>client-rate-limiting</i> is enabled. |
| domain-rate-limit | Number of times a zone has been rate limited, when <i>domain-rate-limiting</i> is enabled. |

DHCP Statistics

Following table provides the complete list of DHCP server statistics available in Cisco Prime Network Registrar. For information on how to view these statistics using web UI and CLI, see [DHCP Statistics](#).

Table 3. DHCP Statistics

| Statistic | Description |
|-------------------------------------|---|
| DHCP Server Statistics | |
| total-scopes | The number of scopes configured in the server. |
| request-buffers-in-use | Displays the number of request buffers the DHCP server is using at the time the statistics are calculated. |
| decaying-max-request-buffers-in-use | Shows the maximum number of request buffers that have recently been in use. This number will, over approximately 10-15 seconds, drift down to match the current request-buffers-in-use count. |

| Statistic | Description |
|---------------------------------------|---|
| request-buffers-allocated | Shows the number of request buffers that the server has allocated. (This is the maximum number of requests that the server can hold at any one time.) |
| response-buffers-allocated | Shows the number of response buffers that the server has allocated. (This is the maximum number of responses that the server can hold at any one time.) |
| response-buffers-in-use | Displays the number of response buffers the DHCP server is using at the time the statistics are calculated. |
| packets-dropped | Displays the number of incoming packets dropped in this time interval because of heavy load on the server. These packets were not processed in any way by the server, other than to discard them. |
| responses-dropped | Displays the number of responses dropped in this time interval, due to heavy load on the server. This is the number of times the server ran out of response buffers. |
| timeouts | Shows the number of timeouts (leases, offers) experienced in this time interval. |
| offer-timeouts | Displays the number of offer packets that timed out during this time interval. |
| grace-expirations | Displays the number of leases that timed out the grace period during this time interval. |
| ack-latency-counts | <p>An ordered list of the number of DHCPACK responses falling into these categories:</p> <ul style="list-style-type: none"> • < 50 ms • 50-200 ms • 200-500 ms • 500-1000 ms • 1-2 secs • 2-3 secs • 3-4 secs • > 4 secs <p>When enhanced-sample-counters is disabled, only second timing resolution is available and all responses taking less than 1 second are counted in the 500-1000ms category.</p> |
| Lease Counts (IPv4) Statistics | |

| Statistic | Description |
|---|--|
| active-leases | Shows the number of DHCPv4 leases and reservations that are currently unavailable to new clients. Leases in the following states are counted as active: <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • DISCONNECTED |
| client-reserved-active-leases | Shows the number of client reserved DHCPv4 leases that are currently unavailable to new clients. Leases in the following states are counted as active: <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • DISCONNECTED |
| client-reserved-leases | Shows the number of client reserved DHCPv4 leases configured in the server. |
| configured-leases | Shows the number of DHCPv4 leases and reservations that are configured on the server. This includes all possible leases in the ranges that are defined by the configuration. |
| reserved-leases | Shows the number of reserved DHCPv4 leases configured in the server. |
| reserved-active-leases | Shows the number of reserved DHCPv4 leases that are currently unavailable to new clients. Leases in the following states are counted as active: <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • DISCONNECTED |
| Packets Received (IPv4) Statistics | |
| packets-received | Displays the number of DHCP packets received in this time interval. |

| Statistic | Description |
|---|---|
| discovers | Shows the number of DHCPDISCOVER packets received in this time interval. |
| requests | Shows the number of DHCPREQUEST packets received in this time interval. |
| releases | Shows the number of DHCPRELEASE packets received in this time interval. |
| declines | Shows the number of DHCPDECLINE packets received in this time interval. |
| informs | Shows the number of DHCPINFORM packets received in this time interval. |
| lease-queries | Shows the number of DHCPLEASEQUERY packets (RFC4388 message ID 10 or Cisco-proprietary message ID 13) received in this time interval. |
| bootp-received | Displays the number of bootp packets received in this time interval. |
| invalid-packets | Displays the number of invalid DHCP packets received in this time interval. |
| acks-per-second | Shows the average rate at which DHCPACK packets were sent to clients in this time interval. |
| Packets Sent (IPv4) Statistics | |
| packets-sent | Displays the number of DHCP packets sent in this time interval. |
| offers | Shows the number of DHCPOFFER packets sent in this time interval. |
| acks | Shows the number of DHCPACK packets sent in this time interval. |
| naks | Shows the number of DHCPNAK packets sent in this time interval. |
| bootp-sent | Displays the number of bootp packets sent in this time interval. |
| lease-queries-unknown | Displays the number of DHCPLEASEUNKNOWN packets (message ID 12) sent in this time interval. |
| lease-queries-unassigned | Displays the number of DHCPLEASEUNASSIGNED packets (message ID 11) sent in this time interval. |
| lease-queries-active | Displays the number of DHCPLEASEACTIVE packets (message ID 13) sent in this time interval. |
| Packets Failed (IPv4) Statistics | |
| dropped-total | Displays the total number of DHCP packets dropped due to server or client configuration issues in this time interval. |

| Statistic | Description |
|---|---|
| discards | Displays the number of DHCP packets dropped in this time interval because the server could not construct a response. |
| duplicates | Displays the number of DHCP duplicate packets dropped in this time interval. |
| extension-drops | Displays the number of DHCP packets that an extension requested and that were dropped in this time interval. |
| extension-errors | Displays the number of DHCP packets that an extension failed to process and that the server dropped in this time interval. |
| client-class-fails | Shows the number of DHCP packets dropped because the server could not assign a client-class. |
| invalid-clients | Displays the number of DHCP packets dropped in this time interval because server configuration prevents responding to the packet. |
| over-max-waiting | Displays the number of DHCP packets dropped because the server <i>max-waiting-packets</i> attribute was exceeded in this time interval. |
| request-dropped-old | Displays the number of DHCP packets dropped in request processing because the server <i>drop-old-packets</i> attribute was exceeded in this time interval. |
| response-dropped-old | Displays the number of DHCP packets dropped in response processing because the server <i>drop-old-packets</i> attribute was exceeded in this time interval. |
| unknown-scopes | Displays the number of DHCP packets dropped in this time interval because the server could not assign an appropriate scope. |
| queue-limited-discovers-dropped | Shows the number of DHCPDISCOVERs that were dropped because the request buffer limit (controlled by <i>discover-queue-limit</i>) was exceeded. |
| request-dropped-others | Displays the number of DHCP packets dropped in request processing for other reasons in this time interval. |
| response-dropped-others | Displays the number of DHCP packets dropped in response processing for other reasons in this time interval. |
| Packets Received (TCP IPv4) Statistics | |
| tcp-current-connections | Shows the number of currently open TCP connections to the DHCP server. |
| tcp-total-connections | Shows the number of TCP connections that were opened to the DHCP server in this time interval. |
| tcp-active-lease-queries | Shows the number of DHCPACTIVELEASEQUERY packets received over all TCP connections in this time interval. |

| Statistic | Description |
|---|--|
| tcp-bulk-lease-queries | Shows the number of DHCPBULKLEASEQUERY packets received over all TCP connections in this time interval. |
| tcp-connections-dropped | Shows the number of TCP requests that were terminated in this time interval because the TCP connection was closed (or reset) by the requester. This excludes normal connection closes or server reloads. |
| Packets Sent (TCP IPv4) Statistics | |
| tcp-lq-done | Shows the number of DHCPLEASEQUERYDONE packets sent over TCP in this time interval. |
| tcp-lq-status | Shows the number of DHCPLEASEQUERYSTATUS packets sent over TCP in this time interval. |
| tcp-lq-active | Shows the number of DHCPLEASEACTIVE packets sent over TCP in this time interval. |
| tcp-lq-unassigned | Shows the number of DHCPLEASEUNASSIGNED packets sent over TCP in this time interval. |
| Status Sent (TCP IPv4) Statistics | |
| tcp-lq-status-unspec-fail | Shows the number of DHCPLEASESTATUS packets with a status code of UNSPECFAIL sent over TCP in this time interval. |
| tcp-lq-status-query-terminated | Shows the number of DHCPLEASESTATUS packets with a status code of QUERYTERMINATED sent over TCP in this time interval. |
| tcp-lq-status-malformed-query | Shows the number of DHCPLEASESTATUS packets with a status code of MALFORMEDQUERY sent over TCP in this time interval. |
| tcp-lq-status-not-allowed | Shows the number of DHCPLEASESTATUS packets with a status code of NOTALLOWED sent over TCP in this time interval. |
| tcp-lq-status-data-missing | Shows the number of DHCPLEASESTATUS packets with a status code of DATAMISSING sent over TCP in this time interval. |
| tcp-lq-status-connection-active | Shows the number of DHCPLEASESTATUS packets with a status code of CONNECTIONACTIVE sent over TCP in this time interval. |
| tcp-lq-status-catchup-complete | Shows the number of DHCPLEASESTATUS packets with a status code of CATCHUPCOMPLETE sent over TCP in this time interval. |
| Failover Statistics | |
| packets-received | Shows the number of failover packets received in this time interval. |
| request-buffers-in-use | Displays the number of failover request buffers the DHCP server is using at the time the statistics are calculated. |

| Statistic | Description |
|-------------------------------------|---|
| decaying-max-request-buffers-in-use | Shows the maximum number of request buffers that have recently been in use. This number will, over approximately 10-15 seconds, drift down to match the current request-buffers-in-use count. |
| request-buffers-allocated | Shows the number of request buffers that the server has allocated to support the failover capability. |
| binding-updates-received | Displays the number of failover DHCPBNDUPD packets received in this time interval. |
| binding-acks-received | Displays the number of failover DHCPBNDACK packets received in this time interval. |
| binding-naks-received | Displays the number of failover DHCPBNDNAK packets received in this time interval. |
| v6-binding-updates-received | Displays the number of failover BNDUPD6 messages received in this time interval. |
| v6-binding-acks-received | Displays the number of failover BNDUPD6 messages, where no updates were negatively acknowledged, received in this time interval. |
| v6-binding-nacks-received | Displays the number of failover BNDUPD6 messages, where one or more updates were negatively acknowledged, received in this time interval. |
| pool-requests-received | Displays the number of failover DHCPPOOLREQ packets received in this time interval. |
| v6-pool-requests-received | Displays the number of failover POOLREQ6 messages received in this time interval. |
| v6-pool-responses-received | Displays the number of failover POOLRESP6 messages received in this time interval. |
| update-requests-received | Shows the number of failover DHCPUPDATEREQ/DHCPUPDATEREQALL packets received in this time interval. |
| update-done-received | Displays the number of failover DHCPUPDATEDONE packets received in this time interval. |
| v6-update-requests-received | Displays the number of failover UPDREQ6/UPDREQALL6 messages received in this time interval. |
| v6-update-done-received | Displays the number of failover UPDDONE6 messages received in this time interval. |
| state-received | Displays the number of failover STATE messages received in this time interval. |
| connects-received | Displays the number of failover CONNECT messages received in this time interval. |

| Statistic | Description |
|-------------------------|---|
| connect-acks-received | Displays the number of failover CONNECTACK messages received in this time interval. |
| contacts-received | Displays the number of failover CONTACT messages received in this time interval. |
| disconnects-received | Displays the number of failover DISCONNECT messages received in this time interval. |
| packets-sent | Displays the number of failover packets sent in this time interval. |
| binding-updates-sent | Shows the number of failover DHCPBNDUPD packets sent in this time interval. |
| binding-acks-sent | Displays The number of failover DHCPBNDACK packets sent in this time interval. |
| binding-naks-sent | Displays the number of failover DHCPBNDNAK packets sent in this time interval. |
| v6-binding-updates-sent | Displays the number of failover BNDUPD6 messages sent in this time interval. |
| v6-binding-acks-sent | Displays the number of failover BNDUPD6 messages, where no updates were negatively acknowledged, sent in this time interval. |
| v6-binding-nacks-sent | Displays the number of failover BNDUPD6 messages, where one or more updates were negatively acknowledged, sent in this time interval. |
| pool-responses-sent | Displays the number of failover DHCPPOOLRESP packets sent in this time interval. |
| v6-pool-requests-sent | Displays the number of failover POOLREQ6 messages sent in this time interval. |
| v6-pool-responses-sent | Displays the number of failover POOLRESP6 messages sent in this time interval. |
| update-requests-sent | Displays the number of failover DHCPUPDATEREQ/DHCPUPDATEREQALL packets sent in this time interval. |
| update-done-sent | Displays the number of failover DHCPUPDATEDONE packets sent in this time interval. |
| v6-update-requests-sent | Displays the number of failover UPDREQ6/UPDREQALL6 messages sent in this time interval. |
| v6-update-done-sent | Displays the number of failover UPDDONE6 messages sent in this time interval. |
| state-sent | Displays the number of failover STATE messages sent in this time interval. |

| Statistic | Description |
|-----------------------------------|---|
| connects-sent | Displays the number of failover CONNECT messages sent in this time interval. |
| connect-acks-sent | Displays the number of failover CONNECTACK messages sent in this time interval. |
| contacts-sent | Displays the number of failover CONTACT messages sent in this time interval. |
| disconnects-sent | Displays the number of failover DISCONNECT messages sent in this time interval. |
| unavailable-requests | Displays the number of times a failover request buffer was unavailable for a received packet. This is incremented each time an attempt fails to allocate a request buffer, including retries. |
| invalid-messages-received | Displays the number of failover messages received in this time interval that contained an unknown request or could not be parsed. |
| discarded-messages | Displays the number of failover messages received in this time interval that were discarded because they were determined to be related to an earlier failover connection. |
| successful-connections | Displays the number of failover connections successfully opened with the partner (CONNECT/CONNECTACK exchanged) in this time interval. |
| failed-connections | Displays the number of failover connections that failed to be successfully connected in this time interval. |
| invalid-connections | Displays the number of failover connections that were not from our partner. |
| connections-terminated-by-server | Displays the number of failover connections that were terminated unexpectedly by this server. These represent exceptional situations outside of the normal processing behavior. |
| connections-terminated-by-partner | Displays the number of failover connections that were terminated unexpectedly (without a DISCONNECT message from the partner). These represent exceptional conditions where the connection to the partner server was lost for some reason. It may be that the partner server dropped the connection, or it might be the result of a failure in the network connecting this server to its partner. |
| IPv6 Statistics | |
| total-prefixes | The number of prefixes configured in the server. |
| offer-timeouts | Shows the number of offer packets that timed out in this time interval. |
| grace-expirations | Shows the number of leases that timed out the grace period in this time interval. |

| Statistic | Description |
|---------------------------------------|---|
| reply-latency-counts | <p>An ordered list of the number of Reply responses falling into these categories:</p> <ul style="list-style-type: none"> • < 50 ms • 50-200 ms • 200-500 ms • 500-1000 ms • 1-2 secs • 2-3 secs • 3-4 secs • > 4 secs <p>When enhanced-sample-counters is disabled, only second timing resolution is available and all responses taking less than 1 second are counted in the 500-1000ms category.</p> |
| server-duid | Shows the current DHCPv6 server-identifier (DUID) for the server. |
| Lease Counts (IPv6) Statistics | |
| active-leases | <p>Shows the number of DHCPv6 leases, reservations, and delegated prefixes that are currently unavailable to new clients. Leases in the following states are counted as active:</p> <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • REVOKED |
| allocated-leases | Shows the number of DHCPv6 leases, reservations, and delegated prefixes that are presently allocated in the server. |
| client-reserved-active-leases | <p>Shows the number of DHCPv6 client reserved leases and client reserved prefixes that are currently unavailable to new clients. Leases in the following states are counted as active:</p> <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • DISCONNECTED |

| Statistic | Description |
|---|--|
| client-reserved-leases | Shows the number of DHCPv6 client reserved leases and client reserved prefixes that are presently allocated on the server. |
| reserved-leases | Shows the number of DHCPv6 reserved leases and reserved prefixes that are configured on the server. |
| reserved-active-leases | Shows the number of DHCPv6 reserved leases and reserved prefixes that are currently unavailable to new clients. Leases in the following states are counted as active: <ul style="list-style-type: none"> • OFFERED • LEASED • RELEASED • EXPIRED • DISCONNECTED |
| Packets Received (IPv6) Statistics | |
| packets-received | Shows the number of DHCPv6 packets received in this time interval. |
| packets-received-relay | Shows the number of DHCPv6 packets received using RELAY in this time interval. |
| solicits | Shows the number of DHCPv6 solicits received in this time interval. |
| requests | Shows the number of DHCPv6 requests received in this time interval. |
| confirms | Shows the number of DHCPv6 confirms received in this time interval. |
| renews | Shows the number of DHCPv6 renews received in this time interval. |
| rebinds | Shows the number of DHCPv6 rebinds received in this time interval. |
| releases | Shows the number of DHCPv6 releases received in this time interval. |
| declines | Shows the number of DHCPv6 declines received in this time interval. |
| info-requests | Shows the number of DHCPv6 info-requests received in this time interval. |
| leasequeries | Shows the number of DHCPv6 Leasequery messages received. |
| invalid-packets | Shows the number of invalid DHCPv6 packets received in this time interval. |
| other-server | Shows the number of packets dropped because the packet was for some other server (server-id option did not match this server's) or because failover determined that the partner would respond. |
| Packets Sent (IPv6) Statistics | |

| Statistic | Description |
|---|--|
| packets-sent | Shows the number of DHCPv6 packets sent in this time interval. |
| packets-sent-relay | Shows the number of DHCPv6 packets sent using RELAY in this time interval. |
| advertises | Shows the number of DHCPv6 advertises sent in this time interval. |
| replies | Shows the number of DHCPv6 replies sent in this time interval. |
| reconfigures | Shows the number of DHCPv6 reconfigures sent in this time interval. |
| leasequery-replies | Shows the number of responses to DHCPv6 Leasequery messages which may or may not have been successful. |
| Packets Failed (IPv6) Statistics | |
| dropped-total | Shows the total number of DHCPv6 packets dropped due to server or client configuration in this time interval. |
| auth-fails | Shows the number of DHCPv6 auth_fails dropped in this time interval. |
| discards | Shows the number of DHCPv6 packets discarded due to RFC 8415 validation failures in this time interval. |
| duplicates | Shows the number of DHCPv6 duplicate packets dropped in this time interval. |
| over-max-waiting | Shows the number of DHCPv6 packets dropped because the server <i>max-waiting-packets</i> attribute was exceeded in this time interval. |
| request-dropped-old | Shows the number of DHCPv6 packets dropped in request processing because the server <i>drop-old-packets</i> attribute was exceeded in this time interval. |
| response-dropped-old | Shows the number of DHCPv6 packets dropped in response processing because the server <i>drop-old-packets</i> attribute was exceeded in this time interval. |
| invalid-clients | Shows the number of DHCPv6 packets from invalid clients dropped in this time interval. Server configuration prevents responding to the packet. |
| unknown-links | The number of dhcpv6 packets dropped from unknown links in this time interval. |
| client-class-fails | Shows the number of DHCPv6 packets dropped because the server could not assign a client-class. |
| queue-limited-solicits-dropped | Shows the number of SOLICITs that were dropped because the request buffer limit (controlled by <i>discover-queue-limit</i>) was exceeded. |
| request-dropped-others | Shows the number of DHCPv6 packets dropped in request processing for other reasons in this time interval. |

| Statistic | Description |
|---|---|
| response-dropped-others | Shows the number of DHCPv6 packets dropped in response processing for other reasons in this time interval. |
| Packets Received (TCP IPv6) Statistics | |
| tcp-current-connections | Shows the number of currently open TCP connections to the DHCP server for DHCPv6 Active and Bulk Leasequery. |
| tcp-total-connections | Shows the number of TCP connections that were opened to the DHCP server for DHCPv6 Active and Bulk Leasequery in this time interval. |
| bulk-leasequeries | Shows the number of LEASEQUERY packets received over all TCP connections in this time interval. |
| tcp-connections-dropped | Shows the number of TCP requests that were terminated in this time interval because the TCP connection was closed (or reset) by the DHCPv6 requester. This excludes normal connection closes or server reloads. |
| active-leasequeries | Shows the number of ACTIVELEASEQUERY packets received over all TCP connections in this time interval. |
| Packets Sent (TCP IPv6) Statistics | |
| bulk-leasequery-replies | Shows the number of LEASEQUERY-REPLY packets sent over all TCP connections in this time interval. |
| bulk-leasequery-data | Shows the number of LEASEQUERY-DATA packets sent over all TCP connections in this time interval. |
| bulk-leasequery-done | Shows the number of LEASEQUERY-DONE packets sent over all TCP connections in this time interval. |
| active-leasequery-replies | Shows the number of LEASEQUERY-REPLY packets sent over all TCP connections in this time interval for active leasequery. |
| active-leasequery-data | Shows the number of LEASEQUERY-DATA packets sent over all TCP connections in this time interval for active leasequery. |
| active-leasequery-done | Shows the number of LEASEQUERY-DONE packets sent over all TCP connections in this time interval for active leasequery. |
| Status Sent (TCP IPv6) Statistics | |
| tcp-lq-status-unspec-fail | Shows the number of LEASEQUERY-REPLY packets with a status code of UnspecFail(1) sent over TCP in this time interval. |
| tcp-lq-status-unknown-query | Shows the number of LEASEQUERY-REPLY packets with a status code of UnknownQueryType(7) sent over TCP in this time interval. |
| tcp-lq-status-malformed-query | Shows the number of LEASEQUERY-REPLY packets with a status code of MalformedQuery(8) sent over TCP in this time interval. |

| Statistic | Description |
|---------------------------------|---|
| tcp-lq-status-not-configured | Shows the number of LEASEQUERY-REPLY packets with a status code of NotConfigured(9) sent over TCP in this time interval. |
| tcp-lq-status-not-allowed | Shows the number of LEASEQUERY-REPLY packets with a status code of NotAllowed(10) sent over TCP in this time interval. |
| tcp-lq-status-query-terminated | Shows the number of LEASEQUERY-REPLY/LEASEQUERY-DONE packets with a status code of QueryTerminated(11) sent over TCP in this time interval. |
| tcp-lq-status-data-missing | Shows the number of LEASEQUERY-REPLY packets with a status code of DataMissing sent over TCP in this time interval. |
| tcp-lq-status-catch-up-complete | Shows the number of LEASEQUERY-DATA packets with a status code of CatchUpComplete sent over TCP in this time interval. |