

# show pdif-service

This chapter describes the output of the **show pdif-service** command.


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# show pdif-service statistics

***Table 1: show pdif-service statistics Command Output Descriptions***

| Field | Description |
|---|---|
| **Session Statistics** | |
| Current sessions total | Total number of current sessions. |
| Simple-IPv4 current | Number of current Simple-IPv4 sessions. |
| Mobile-IPv4 current | Number of current Mobile-IPv4 sessions. |
| Proxy-Mobile-IPv4 current | Number of current Proxy-Mobile-IPv4 sessions. |
| Data-Clients | Total number of subscriber sessions originating from data clients. |
| Active current | Total number of currently active sessions. |
| Dormant current | Total number of currently dormant sessions. |
| Active IPv4 current | Total number of currently active IPv4 sessions. |
| Active IPv6 current | Total number of currently active IPv6 sessions. |
| Dormant IPv4 current | Total number of currently dormant IPv4 sessions. |
| Dormant IPv6 current | Total number of currently dormant IPv6 sessions. |
| Total Simple-IP IPv4 | Total number of Simple-IP IPv4 sessions. |
| Total Mobile-IP IPv4 | Total number of Mobile-IP IPv4 sessions. |
| Total Proxy-Mobile-IP IPv4 | Total number of Proxy-Mobile-IP IPv4 sessions. |

| Field | Description |
|---|---|
| Mobile-IP IPv4 attempts | Total number of Mobile-IP IPv4 session attempts. |
| Mobile-IP IPv4 successes | Number of successful Mobile-IP IPv4 session attempts. |
| Mobile-IP IPv4 failures | Number of failed Mobile-IP IPv4 session attempts. |
| Proxy-Mobile-IP IPv4 attempts | Total number of Proxy-Mobile-IP IPv4 session attempts. |
| Proxy-Mobile-IP IPv4 succ | Number of successful Proxy-Mobile-IP IPv4 session attempts. |
| Proxy-Mobile-IP IPv4 fails | Number of failed Proxy-Mobile-IP IPv4 session attempts. |
| Simple-IP-Fallback attempts | Total number of Simple-IP fallback attempts. |
| successes | Number of successful Simple-IP fallback sessions. |
| failures | Number of failed Simple-IP fallback sessions. |
| **Simple-IP-Fallback Failure Reasons** | |
| No Mobile-IP RRQ Rx | Mobile-IP RRQ request not received. |
| Not allowed | Simple-IP fallback not allowed by configuration. |
| Tagged Pool Address | Address is in a pool and tagged not to allow Simple-IP fallback. |
| Misc | |
| Simple-IP IPv4 attempts | Total number of Simple-IP IPv4 session attempts. |
| Simple-IP IPv4 successes | Number of successful Simple-IP IPv4 attempts. |
| Simple-IP IPv4 failures | Number of failed Simple-IP IPv4 attempts. |
| Total setup attempts | Total number of session setup attempts. |
| Total setup success | Number of successful session setup attempts. |
| Total Attempts Failed | Number of failed session setup attempts. |
| Total disconnected | Total number of disconnected sessions. |
| Disconnected locally | Number of sessions disconnected locally. |
| Disconnected remotely | Number of sessions disconnected remotely. |
| Disconnect remotely before connect | Number of sessions disconnected remotely before the session was fully connected. |
| **Session Disconnect Reasons** | |
| Remote disconnect ipsec | Number of sessions disconnected because of remote party (mobile) hang-up. |
| Admin disconnect | Number of sessions disconnected by the Admin. |

| Field | Description |
|---|---|
| Idle timeout | Number of sessions disconnected because the Idle timer has timed out. |
| Absolute timeout | Number of sessions disconnected because the Absolute timer has timed out. |
| Long duration timeout | Number of sessions disconnected because the Long Duration timer has timed out. |
| Session setup timeout | Number of sessions disconnected because the Session Setup timer has timed out. |
| No resource | Number of sessions disconnected because the system has run out of resources (flows, memory, etc.). |
| Auth failure | Number of sessions disconnected because of an authentication failure. |
| Flow add failure | Number of sessions disconnected because flow could not be added on NPU. |
| Invalid dest-context | Number of sessions disconnected because the destination context coming from AAA server is invalid. |
| Source address violation | Number of sessions disconnected because the source IP address is invalid. |
| MIP Remote | Number of Mobile-IP sessions disconnected because of remote mobile user hang-up. |
| MIP Local | Number of Mobile-IP sessions disconnected locally. |
| Duplicate Request | Number of sessions disconnected because of a duplicate request when there is already a session with the same NAI. |
| MAC validation failure | Number of sessions disconnected because the HSS cannot validate MAC address from remote user. |
| Addr assign failure | Number of sessions disconnected because no address has been assigned. |
| Miscellaneous reasons | Number of Mobile-IP sessions disconnected for other reasons. |
| **MAC Address Validation Statistics** | |
| Validation attempted | Total number of MAC address validation attempts. |
| Validation succeeded | Number of successful MAC address validation attempts. |
| Validation failed | Number of failed MAC address validation attempts. |
| **MAC Address Validation Successes** | |
| MAC Address matches | Number of successful HSS server MAC address matches. |
| HSS failure continued | HSS is configured to continue the session after a failure is registered. |
| **MAC Address Validation Failure Reasons** | |
| Diameter Error | Validation failed because of a problem with the Diameter server. |

| Field | Description |
|---|---|
| User Unknown | Validation failed because of an unknown user. |
| Malformed MAC Address | Validation failed because of a malformed MAC address from the mobile subscriber. |
| No MAC Address provided | Validation failed because the mobile subscriber does not supply a MAC address. |
| Unauthorized MAC Address | Validation failed because the MAC address is not authorized by the HSS. |
| Sh Interface unavailable | Validation failed because of a problem with the interface to the HSS. |
| Timeout | Validation failed because of a problem with a session setup timeout. |
| Others | Validation failed because of other reasons. |
| **Data Stats** | |
| Total Bytes Sent | Total number of bytes sent. |
| Total Packets Sent | Total number of packets sent. |
| Total Bytes Rcvd | Total number of bytes received. |
| Total Packets Rcvd | Total number of packets received. |
| Total Pkts Violations | Total number of packets received from UEs and destined for the Internet that do not match any of the configured traffic selectors. |
| **EAP Server Statistics** | |
| Total Received | Total number of EAP Success+ EAP Challenge + EAP Failures, coming from EAP server. |
| Success Received | Number of EAP successes received. |
| Challenge Received | Number of EAP challenges received. |
| Failures Received | Number of EAP failures received. |
| Discarded | Number of EAP server messages discarded. |
| Total Sent | Total number of EAP server messages sent. |
| Initial Requests | Number of initial requests. |
| Requests Forwarded | Number of requests forwarded. |
| **EAP Mobile Statistics** | |
| Total Received | Total number of EAP Requests coming from mobile subscriber. |
| Discarded | Number of EAP mobile messages discarded. |