

show lma-service

This chapter describes the outputs of the **show lma-service** command.

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show lma-service statistics

Table 1: show lma-service statistics Command Output Descriptions

Field	Description
MIP AAA Authentication	
Attempts	The total number of MIP AAA authentication attempts made by this system or the specified service.
Success	The total number of MIP AAA authentication attempts that were successful made by this system or the specified service.
Total Failures	The total number of MIP AAA authentication attempts that failed made by this system or the specified service.
Actual Auth Failures	The total number of actual MIP AAA authentication failures received by this system or the specified service.
Failures	The total number of failures received by this system or the specified service.
Misc Auth Failures	The total number of miscellaneous MIP AAA authentication failures received this system or the specified service.
Binding Updates Received	
Total Received	The total number of all binding updates received by this system or the specified service.
Total Accepted	The total number of all binding updates received and accepted by this system or the specified service.
Total Denied	The total number of all binding updates received and denied by this system or the specified service.

Field	Description
Total Discarded	The total number of all binding updates received and discarded by this
Initial Binding Update Requests	
Received	The total number of all initial binding updates received by this system or the specified service.
Accepted	The total number of initial binding updates received and accepted by this system or the specified service.
Denied	The total number of initial binding updates received and denied by this system or the specified service.
Refresh Binding Update Requests	
Received	The total number of all refresh binding updates received by this system or the specified service.
Accepted	The total number of refresh binding update requests received and accepted by this system or the specified service.
Denied	The total number of refresh binding update requests received and denied by this system or the specified service.
DeReg Requests	
Received	The total number of all deregistration request binding updates received by this system or the specified service.
Accepted	The total number of deregistration request binding updates received and accepted by this system or the specified service.
Denied	The total number of deregistration request binding updates received and denied by this system or the specified service.
Handoff Requests	
Received	The total number of all handoff request binding updates received by this system or the specified service.
Accepted	The total number of handoff request binding updates received and accepted by this system or the specified service.
Denied	The total number of handoff request binding updates received and denied by this system or the specified service.
Binding Acknowledgements Sent	
Total	The total number of all binding update acknowledgments sent by this system or the specified service.
Accepted Reg	The total number of accepted registration binding update acknowledgments sent by this system or the specified service.

Field	Description
Accepted DeReg	The total number of accepted deregistration binding update acknowledgments sent by this system or the specified service.
Denied	The total number of denied binding update acknowledgments sent by this system or the specified service.
Send Error	The total number of send error binding update acknowledgments sent by this system or the specified service.
Accepted Init Reg	The total number of initial binding acknowledgments sent by LMA with Success code.
Binding Update Deny Reasons	
Insufficient Resources	The total number of binding update deny messages, due to insufficient resources, sent by this system or the specified service.
Mismatched ID	The total number of binding update deny messages, due to mismatched IDs, sent by this system or the specified service.
MN Auth Failure	The total number of binding update deny messages, due to a mobile node authentication failure condition, sent by this system or the specified service.
Admin Prohibited	The total number of binding update deny messages, due to requiring a message ID, sent by this system or the specified service.
Msg ID Required	The total number of binding update deny messages, due to requiring a message ID, sent by this system or the specified service.
DAD Failed	The total number of binding update deny messages, due to DAD failure, sent by this system or the specified service.
Not Home Subnet	The total number of binding update deny messages, due to an incorrect home subnet, sent by this system or the specified service.
Sequence Out Of Window	The total number of binding update deny messages, due to sequence out of window, sent by this system or the specified service.
Reg Type Change Disallowed	The total number of binding update deny messages, due to a disallowed registration type change, sent by this system or the specified service.
Unspecified Reason	The total number of binding update deny messages, due to an unspecified reason, sent by this system or the specified service.
Service-Authorization Failed	The total number of binding update deny messages, due to a service authorization failure, sent by this system or the specified service.
Proxy Reg Not Enabled	The total number of binding update deny messages, due to a proxy registration not enabled error, sent by this system or the specified service.
Timestamp Mismatch	The total number of binding update deny messages, due to a timestamp mismatch error, sent by this system or the specified service.

Field	Description
Timestamp Lower Than Expected	The total number of binding update deny messages, due to a timestamp lower than expected reason, sent by this system or the specified service.
Missing MN-ID Option	The total number of binding update deny messages, due to a missing MN-ID option, sent by this system or the specified service.
Missing HNP Option	The total number of binding update deny messages, due to a missing HNP option, sent by this system or the specified service.
Missing Access Tech Option	The total number of binding update deny messages, due to a missing access technology option, sent by this system or the specified service.
Missing Handoff Ind Option	The total number of binding update deny messages, due to a missing handoff indicator option, sent by this system or the specified service.
Not Authorized For HNP	The total number of binding update deny messages, due to a not authorized for HNP reason, sent by this system or the specified service.
Not LMA For Mobile	The total number of binding update deny messages, due to a missing LMA for the MN reason, sent by this system or the specified service.
Not Authorized For Proxy Reg	The total number of binding update deny messages, due to a not authorized for proxy registration reason, sent by this system or the specified service.
BCE Prefix Do Not Match	The total number of binding update deny messages, due to a BCE prefix not matching, sent by this system or the specified service.
GRE Key Option Required	The total number of binding update deny messages, due to a GRE key option required reason, sent by this system or the specified service.
MCOA Unknown CoA:	The total number of binding update deny messages, due to a MCOA unknown CoA reason, sent by this system or the specified service.
Update Denied - Insufficient Resource Reasons	
No Session Manager	The total number of binding update deny messages, due to insufficient resources - no session manager, sent by this system or the specified service.
No Memory	The total number of binding update deny messages, due to insufficient resources - no memory, sent by this system or the specified service.
Session Manager Rejected	The total number of binding update deny messages, due to insufficient resources - session manager rejected, sent by this system or the specified service.
Input-Q Exceeded	The total number of binding update deny messages, due to insufficient resources - input queue exceeded, sent by this system or the specified service.
Simul Bindings Exceeded	The total number of binding update deny messages, due to insufficient resources - simultaneous bindings exceeded, sent by this system or the specified service.
Address Alloc Failed	The total number of binding update deny messages, due to insufficient resources - address allocation failed, sent by this system or the specified service.

Field	Description
Update Denied - Admin Prohibited Reasons	
MN-AAA Auth Option Missing	The total number of binding update deny messages, due to an administrator prohibited - MN-AAA auth option missing condition, sent by this system or the specified service.
H-bit Not Set	The total number of binding update deny messages, due to an administrator prohibited - H-bit not set condition, sent by this system or the specified service.
Invalid MN-AAA Option SPI	The total number of binding update deny messages, due to an administrator prohibited - invalid MN-AAA option SPI condition, sent by this system or the specified service.
Invalid MN-HA Option SPI	The total number of binding update deny messages, due to an administrator prohibited - invalid MN-HA option SPI condition, sent by this system or the specified service.
Congestion Control Denied	The total number of binding update deny messages, due to an administrator prohibited - congestion control denied condition, sent by this system or the specified service.
Policy Rejected	The total number of binding update deny messages, due to an administrator prohibited - policy rejected condition, sent by this system or the specified service.
HoA Not Authorized	The total number of binding update deny messages, due to an administrator prohibited - HoA not authorized condition, sent by this system or the specified service.
No Permission	The total number of binding update deny messages, due to an administrator prohibited - no permission condition, sent by this system or the specified service.
Bad Request	The total number of binding update deny messages, due to an administrator prohibited - bad request condition, sent by this system or the specified service.
Update Denied - Unspecified Reason	
Newer Session detected by AAA	The total number of binding update discarded messages, due to newer session detected by AAA, sent by this system or the specified service.
Newer Session detected by PCRF	The total number of binding update discarded messages, due to newer session detected by PCRF, sent by this system or the specified service.
Newer Session detected by PCS	The total number of binding update discarded messages, due to newer session detected by PCS, sent by this system or the specified service.
Binding Updates Discard Reasons	
Congestion Discarded	The total number of binding update discarded messages, due to congestion, sent by this system or the specified service.
Checksum Error	The total number of binding update discarded messages, due to checksum error(s), sent by this system or the specified service.
Initial Auth Pending	The total number of binding update discarded messages, due to an initial authentication pending condition, sent by this system or the specified service.
Session Not Found	The total number of binding update discarded messages, due to a session not found condition, sent by this system or the specified service.

Field	Description
HAMGR Not Ready	The total number of binding update discarded messages, due to an HA manager not found condition, sent by this system or the specified service.
Decode Failure	The total number of binding update discarded messages, due to a decode failure, sent by this system or the specified service.
Invalid Buffer Length	The total number of binding update discarded messages, due to an invalid buffer length, sent by this system or the specified service.
Revocation Pending	The total number of binding update discarded messages, due to pending revocations, sent by this system or the specified service.
Binding Revocation	
Sent	The total number of binding revocations sent by this system or the specified service.
Retries Sent	The total number of binding revocation retries sent by this system or the specified service.
Ack Rcvd	The total number of binding revocation acknowledgements received by this system or the specified service.
Not Acknowledged	The total number of binding revocations sent, but not acknowledged, by this system or the specified service.
Rcvd	The total number of binding revocations received by this system or the specified service.
Ack Sent	The total number of binding revocation acknowledgements sent by this system or the specified service.
Sent Revocation Trigger Reasons	
Unspecified	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Unspecified" revocation trigger reason.
Administrative Reason	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Administrative Reason" revocation trigger reason.
Inter-MAG Handoff-Same ATT	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Inter-MAG Handoff-Same ATT" revocation trigger reason.
Inter-MAG - Unknown Handoff	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Inter-MAG - Unknown Handoff" revocation trigger reason.
Inter-MAG Handoff-Diff ATT	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Inter-MAG Handoff-Diff ATT" revocation trigger reason.
Per-Peer Policy	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with a "Per-Peer Policy" revocation trigger reason.
Revoking Node Local Policy	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with a "Revoking Node Local Policy" revocation trigger reason.

Field	Description
User Initiated Session Term	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with a "User Initiated Session Term" revocation trigger reason.
Access Network Session Term	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Access Network Session Term" revocation trigger reason.
Out-of Sync BCE State	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Out-of Sync BCE State" revocation trigger reason.
Unknown	The total number of Binding Revocation Indication (BRI) messages sent by the LMA with an "Unknown" revocation trigger reason.
Received Revocation ACK Status	
Success	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Success" status.
Partial-Success	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Partial-Success" status.
Binding-Does-Not-Exist	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Binding-Does-Not-Exist" status.
No IPv4-HoA-Bind	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "No IPv4-HoA-Bind" status.
Global-Revoc-Not-Authorized	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Global-Revoc-Not-Authorized" status.
Revoc-MN-ID-Required	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Revoc-MN-ID-Required" status.
Revoc-Failed-MN-Attached	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Revoc-Failed-MN-Attached" status.
Trigger-Not-Supported	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Trigger-Not-Supported" status.
Proxy-Bind-Rev-Not-Supported	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Proxy-Bind-Rev-Not-Supported" status.
Revoc-Func-Not-Supported	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with a "Revoc-Func-Not-Supported" status.
Unknown	The total number of Binding Revocation Acknowledgement (BRA) messages received by the LMA with an "Unknown" status.
Binding Revocation ACK Discarded	
Total	The total number of binding revocation acknowledgements received and discarded by this system or the specified service.

Field	Description
Session Not Found	The total number of binding revocation acknowledgements received and discarded, due to a session not found condition, by this system or the specified service.
Badly Formed Request	The total number of binding revocation acknowledgements received and discarded, due to a badly formed request condition, by this system or the specified service.
Decode Error	The total number of binding revocation acknowledgements received and discarded, due to a decode error condition, by this system or the specified service.
Checksum Error	The total number of binding revocation acknowledgements received and discarded, due to a checksum error condition, by this system or the specified service.
Invalid Message Type	The total number of binding revocation acknowledgements received and discarded, due to a invalid memory type condition, by this system or the specified service.
HAMGR Not Ready	The total number of binding revocation acknowledgements received and discarded, due to a HAMGR not ready condition, by this system or the specified service.
Matching Request Not Found	The total number of binding revocation acknowledgements received and discarded, due to a matching request not found condition, by this system or the specified service.
Invalid Buffer Length	The total number of binding revocation acknowledgements received and discarded, due to a invalid buffer length condition, by this system or the specified service.
Tunnel Data Received	
Total Packets	The total number of tunnel packets received by this system or the specified service.
6in6	The total number of IPv6-in-IPv6 tunnel packets received by this system or the specified service.
4in6	The total number of IPv4-in-IPv6 tunnel packets received by this system or the specified service.
IPv6 GRE (IPv4)	The total number of IPv4-in-IPv6 GRE tunnel packets received by this system or the specified service.
IPv6 GRE (IPv6)	The total number of IPv6-in-IPv6 GRE tunnel packets received by this system or the specified service.
4in4	The total number of IPv4-in-IPv4 tunnel packets received by this system or the specified service.
6in4	The total number of IPv6-in-IPv4 tunnel packets received by this system or the specified service.
IPv4 UDP (IPv4)	The total number of IPv4-in-IPv4 UDP tunnel packets received by this system or the specified service.
IPv4 UDP (IPv6)	The total number of IPv6-in-IPv4 UDP tunnel packets received by this system or the specified service.
Total Bytes	The total number of tunnel bytes received by this system or the specified service.

Field	Description
6in6	The total number of IPv6-in-IPv6 tunnel bytes received by this system or the specified service.
4in6	The total number of IPv4-in-IPv6 tunnel bytes received by this system or the specified service.
IPv6 GRE (IPv4)	The total number of IPv4-in-IPv6 GRE tunnel bytes received by this system or the specified service.
IPv6 GRE (IPv6)	The total number of IPv6-in-IPv6 GRE tunnel bytes received by this system or the specified service.
4in4	The total number of IPv4-in-IPv4 tunnel bytes received by this system or the specified service.
6in4	The total number of IPv6-in-IPv4 tunnel bytes received by this system or the specified service.
IPv4 UDP (IPv4)	The total number of IPv4-in-IPv4 UDP tunnel bytes received by this system or the specified service.
IPv4 UDP (IPv6)	The total number of IPv6-in-IPv4 UDP tunnel bytes received by this system or the specified service.
Errors	
Protocol Type Error	The total number of protocol type data errors received by this system or the specified service.
Invalid Pkt Length	The total number of invalid packet length data errors received by this system or the specified service.
No Session Found	The total number of no session found data errors received by this system or the specified service.
Tunnel Data Sent	
Total Packets	The total number of tunnel packets sent by this system or the specified service.
6in6	The total number of IPv6-in-IPv6 tunnel packets sent by this system or the specified service.
4in6	The total number of IPv4-in-IPv6 tunnel packets sent by this system or the specified service.
IPv6 GRE (IPv4)	The total number of IPv4-in-IPv6 GRE tunnel packets sent by this system or the specified service.
IPv6 GRE (IPv6)	The total number of IPv6-in-IPv6 GRE tunnel packets sent by this system or the specified service.
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6in4	The total number of IPv6-in-IPv4 tunnel packets sent by this system or the specified service.
IPv4 UDP (IPv4)	The total number of IPv4-in-IPv4 UDP tunnel packets sent by this system or the specified service.
IPv4 UDP (IPv6)	The total number of IPv6-in-IPv4 UDP tunnel packets sent by this system or the specified service.
Total Bytes	The total number of tunnel bytes sent by this system or the specified service.
6in6	The total number of IPv6-in-IPv6 tunnel bytes sent by this system or the specified service.
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IPv4 UDP (IPv4)	The total number of IPv4-in-IPv4 UDP tunnel bytes sent by this system or the specified service.
IPv4 UDP (IPv6)	The total number of IPv6-in-IPv4 UDP tunnel bytes sent by this system or the specified service.
Tunnel ICMPV6 Packets	
Packet Too Big Rcvd	The total number of tunnel ICMP packets - too big received by this system or the specified service.
Packet Too Big Dropped	The total number of tunnel ICMP packets - too big dropped by this system or the specified service.
Packet Too Big Relayed	The total number of tunnel ICMP packets - too big relayed by this system or the specified service.
Total Disconnects	
Lifetime expiry	The total number of disconnects due to lifetime expiry initiated by this system or the specified service.
Deregistrations	The total number of disconnects due to deregistrations initiated by this system or the specified service.

Field	Description
Admin Drops	The total number of disconnects due to admin drops initiated by this system or the specified service.
Other Reasons	The total number of disconnects due to "other reasons" initiated by this system or the specified service.