

show bcmcs

This chapter includes the **show bcmcs** command output tables.

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show bcmcs counters all

Table 1: show bcmcs counters all Command Output Descriptions

Field	Description
Username	BCMCS group username for this output.
Callid	Call ID for this output.
Flow-id	Flow ID for this output.
BCMCS Service Request/Reply	
Renew SRQ Accepted	The total number of service request renewals accepted.
Discarded	The total number of service request renewals discarded.
Response Send Error	The total number of service replies for which errors were experienced during transmission.
BCMCS Registration Request/Reply	
Renew RRQ Accepted	The total number of registration request renewals accepted.
Discarded	The total number of registration request renewals discarded.
Response Send Error	The total number of registration replies for which errors were experienced during transmission.
BCMCS Registration Update/Ack	
Initial Update Transmitted	The total number of registration updates that have been transmitted.
Update Retransmitted	The total number of registration updates that have been re-transmitted.

Field	Description
Denied	The total number of registration updates that have been denied by the PCF.
Not Acknowledged	The total number of registration updates and/or acknowledgements that have not been acknowledged by the PCF.
Reg Ack Received	The total number of registration acknowledgements that have been received.
Reg Ack Discarded	The total number of registration acknowledgements that have been discarded.
Update Send Error	The total number of registration updates for which errors were experienced during transmission.
BCMCS Registration Update Send Reason	
Lifetime Expiry	The total number of registration updates that were sent due to the expiration of a lifetime timer during a subscriber session.
Upper Layer Initiated	The total number of registration updates that were initiated by upper processing layers.
Other Reasons	The total number of registration updates that were sent due to reasons other than those listed here.
Session Manager Exited	The total number of registration updates that were sent due to the termination of Session Manager tasks. **NOTE:** If any data is reported for this field, there may be an issue with either the software or hardware. If you continue to experience problems, refer to the System Administration and Administration Reference for information on troubleshooting the problem.
BCMCS Registration Update Denied	
Reason Unspecified	The total number of denied registration updates that were sent with a reply code of 80H (Registration Denied - reason unspecified).
Admin Prohibited	The total number of denied registration updates that were sent with a reply code of 81H (Registration Denied - administratively prohibited).
BSN Failed Authentication	The total number of denied registration updates due to authentication failure by the mobile node.
Identification Mismatch	The total number of denied registration updates that were sent with a reply code of 85H (Registration Denied - identification mismatch).
Poorly Formed Update	The total number of denied registration updates that were sent with a reply code of 86H (Registration Denied - poorly formed request).
GRE Send	
Total Packets Sent	Indicates the total number of Generic Routing Encapsulation (GRE) packets transmitted.
Total Bytes Sent	Indicates the total number of Generic Routing Encapsulation (GRE) bytes transmitted.
Total BCMCS Sessions matching specified criteria	Total number of sessions matching specified criteria.

show bcmcs statistics

Table 2: show bcmcs statistics Command Output Descriptions

Field	Description
Session Stats	
Total Sessions Current	Indicates the total number of sessions that are in progress. These could be either active, dormant, being set up, or being disconnected.
Current Flow-id session	Indicates the number of flow-id sessions in progress. These could be active, dormant, being set up or being disconnected.
Current Pgm-Id Session	Indicates the number of program-id sessions in progress. These could be active, dormant, being set up or being disconnected.
Total Setup	Indicates the total number of sessions that have been successfully set up since system started.
Total Released	Indicates the total number of sessions that have successfully been disconnected.
Total Setup Flow-Id	Indicates the total number of flow-id sessions that have been successfully set up since the system was started.
Total Setup Program-Id	Indicates the total number of program-id sessions that have been successfully set up since the system was started.
Session Releases	
De-registered	Indicates the total number of sessions that were disconnected through a normal de-registration process.
Lifetime Expiry	Indicates the total number of sessions that were disconnected due to the expiration of their lifetime timer.
PPP Layer Command	Indicates the number of sessions disconnected due to PPP initiating a tear-down.
PCF-Monitor Fail	The total number of sessions disconnected because the PCF monitor function detected that the PCF was down.
GRE Key Mismatch	The total number of sessions disconnected because the GRE key changed for a session.
Other Reasons	Indicates the number of sessions disconnected due to reasons other than those listed here.
BCMCS Service Request/Response	

Field	Description
Total SRQ/Renew/Dereg RX	The total number of service requests, renewals, and de-registrations received.
Total Accept	The total number of service requests that have been received and accepted.
Total Denied	Total number of service requests that have been received and denied.
Total Discard	Total number of service requests that have been received and discarded.
Init SRQ RX	The total number of initial setup or start service requests that have been received.
Init SRQ Accept	The total number of initial setup or start service requests that have been received and accepted.
Init SRQ Denied	The total number of initial setup or start service requests that have been received and denied.
Init SRQ Discard	The total number of initial setup or start service requests that have been received and discarded.
Renew SRQ RX	The total number of service request renewals received.
Renew SRQ Accept	The total number of service request renewals received and accepted.
Renew SRQ Denied	The total number of service request renewals received and denied.
Renew SRQ Discard	The total number of service request renewals received discarded.
Dereg SRQ RX	The total number of de-registration requests that have been received.
Dereg SRQ Accept	The total number of de-registration requests that have been received and accepted.
Dereg SRQ Denied	The total number of de-registration requests that have been received and denied.
Dereg SRQ Discard	The total number of de-registration requests that have been received and discarded.
Response Send Error	Indicates the total number of registration replies for which errors were experienced during transmission.
BCMCS Service Request Denied	
Requests Accepted	Indicates the total number of service requests that were denied based on the number of requests accepted.

Field	Description
Unspecified Reason	Indicates the total number of service requests that were denied for unspecified reasons.
PCF Failed Auth	Indicates the total number of service requests that were denied due to mobile node authentication failure.
Identification Mismatch	Indicates the total number of service requests that were denied due to an identification mismatch.
Unknown BSN	Indicates the total number of service requests that were denied due to an unknown BSN address.
BCMCS SRQ Denied - Insufficient Resource Reasons	
No Session Manager	Indicates the total number of service requests that were denied due to the lack of available Session Manager tasks. This may occur when the system is booting up in the event that a Session Manager task terminated unexpectedly.
No Memory	Indicates the total number of service requests that were denied due to insufficient memory.
Session Managers Retried	Indicates that the system unsuccessfully attempted to try multiple Session Manager tasks to establish a session.
Input-Q Exceeded	Indicates that the queue in which incoming calls are kept prior to being processed exceeded its capacity.
BCMCS SRQ Denied - Poorly Formed Request Reasons	
Session Already Dormant	The number of SRQs that had Active Stop for a session that was already dormant.
Already Active	The number of SRQs that had Active Start for a session that was already active.
Other Reasons	The number of SRQs denied due to other reasons for a badly formed SRQ.
BCMCS SRQ Denied - Overload/Congestion Control	
Admin Prohibited (reject)	SRQs denied due to congestion control mechanism.
Unknown BSN (redirect)	SRQs denied due to congestion control mechanism.
BCMCS Registration Request/Reply	
Total RRQ/Renew/Dereg RX	The total number of registration requests, renewals, and de-registrations received.
Total Accept	The total number of registration requests that have been accepted.
Total Denied	The total number of registration requests that have been rejected.

Field	Description
Total Discard	The total number of registration requests that have been discarded.
Init RRQ RX	The total number of initial registration requests that have been received.
Init RRQ Accept	The total number of initial registration requests received and accepted.
Init RRQ Denied	The total number of initial registration requests received and rejected.
Init RRQ Discard	The total number of initial registration requests that have been received and discarded.
Renew RRQ RX	The total number of registration request renewals received.
Renew RRX Accept	The total number of registration request renewals received and accepted.
Renew Actv Start Accept	The total number of RRQ renewals with an Active Start record received and accepted.
Renew Actv Stop Accept	The total number of RRQ renewals with an Active Stop record received and accepted.
Renew RRQ Denied	The total number of registration request renewals received and rejected.
Renew RRQ Discard	The total number of registration request renewals received and discarded
Dereg RRQ RX	The total number of de-registration requests that have been received.
Dereg RRQ Accept	The total number of de-registration requests received and accepted.
Dereg Active Stop Accept	The total number of de-registration requests with an active stop that were accepted.
Dereg RRQ Denied	The total number of de-registration requests received and rejected
Dereg RRQ Discard	The total number of de-registration requests received and discarded.
Reply Send Error	Indicates the total number of registration replies for which errors were experienced during transmission.
BCMCS Registration Request Denied	
Unspecified Reason	Indicates the total number of registration requests that were denied using reply code of 80H (Registration Denied - reason unspecified)

Field	Description
Admin Prohibited	Indicates the total number of registration requests that were denied using reply code of 81H (Registration Denied - administratively prohibited).
Insufficient Resources	Indicates the total number of registration requests that were denied using reply code of 82H (Registration Denied - insufficient resources).
PCF Failed Auth	Indicates the total number of registration requests that were denied using reply code of 83H (Registration Denied - mobile node failed authentication).
Identification Mismatch	Indicates the total number of registration requests that were denied using reply code of 85H (Registration Denied - identification mismatch).
Poorly Formed Request	Indicates the total number of registration requests that were denied using reply code of 86H (Registration Denied - poorly formed request).
Unknown BSN Address	Indicates the total number of registration requests that were denied due to an unknown BSN address.
Reverse Tunnel Unavail	Indicates the total number of registration requests that were denied using reply code of 89H (Registration Denied - requested reverse tunnel unavailable).
Reverse Tunnel Required	Indicates the total number of registration requests that were denied using reply code of 8AH (Registration Denied - reverse tunnel is mandatory and "T"-bit not set).
Unrecognized Vendor Id	Indicates the total number of registration requests that were denied using reply code of 8DH (Registration Denied - unsupported vendor ID or unable to interpret data in the CVSE).
Session Already Closed	Renew and RRQ denied due to the session not present in the PDSN Dereq. Error code 0x8e.
BCMCS RRQ Denied - Insufficient Resource Reasons	
No Session Manager	Indicates the total number of registration requests that were denied due to the lack of available Session Manager tasks. This may occur when the system is booting up in the event that a Session Manager task terminated unexpectedly.
No Memory	Indicates the total number of registration requests that were denied due to insufficient memory.
Session Managers Retried	Indicates that the system unsuccessfully attempted to try multiple Session Manager tasks to establish a session.

Field	Description
Input-Q Exceeded	Indicates that the queue in which incoming calls are kept prior to being processed exceeded its capacity.
BCMCS RRQ Denied - Poorly Formed Request Reasons	
Session Already Dormant	The number of RRQs that had Active Stop for a session that was already dormant.
Already Active	The number of RRQs that had Active Start for a session that was already active.
Other Reasons	The number of RRQs denied due to other reasons for a badly formed RRQ.
BCMCS RRQ Denied - Overload/Congestion Control	
Admin Prohibited (reject)	RRQs denied with error code 0x81h due to congestion control mechanism.
Unknown BSN (redirect)	RRQs denied with error code 0x88 due to congestion control mechanism.
BCMCS Registration Update/Ack	
Reg Update Transmitted	Indicates the total number of registration updates that were transmitted.
Accepted	Indicates the total number of registration updates that were accepted by the PCF.
Denied	Indicates the total number of registration updates that were denied.
Not Acknowledged	Indicates the total number of registration updates that were not acknowledged.
Initial Update TX	Indicates the total number of initial registration updates that were transmitted.
Update Retransmitted	Indicates the total number of registration updates that were re-transmitted.
Reg Ack Received	Indicates the total number of registration acknowledgements that were received.
Reg Ack Discarded	Indicates the total number of registration acknowledgements that were discarded.
Update Send Error	Indicates the total number of registration updates for which errors were experienced during transmission.
BCMCS Registration Update Send Reason	

Field	Description
Lifetime Expiry	Indicates the total number of registration updates that were sent due to the expiration of a lifetime timer during a subscriber session.
Other Reasons	Indicates the total number of registration updates that were sent due to reasons other than those listed here.
Upper Layer Initiated	Indicates the total number of registration updates that were initiated by upper processing layers.
Session Manager Exited	Indicates the number of registration updates that were sent due to the termination of a Session Manager task.
BCMCS Registration Update Denied	
Reason Unspecified	Indicates the total number of denied registration updates that were sent with a reply code of 80H (Registration Denied - reason unspecified).
Admin Prohibited	Indicates the total number of denied registration updates that were sent with a reply code of 81H (Registration Denied - administratively prohibited).
BSN Failed Auth	Indicates the total number of denied registration updates that were sent due to failed authentication by the mobile node.
Identification Mismatch	Indicates the total number of denied registration updates that were sent with a reply code of 85H (Registration Denied - identification mismatch).
Poorly Formed Updated	Indicates the total number of denied registration updates that were sent with a reply code of 86H (Registration Denied - poorly formed request).
BCMCS Registration Ack Discard Reasons	
Session Absent	Indicates the total number of registration acknowledgements that were discarded due to the session having been already ended because the acknowledgement was late.
No Memory	Indicates the total number of registration acknowledgements that were discarded due to insufficient memory.
Malformed	Indicates the total number of registration acknowledgements that were discarded due to being poorly formed.
Auth Failure	Indicates the total number of registration acknowledgements that were discarded due to the mobile node failing authentication.
Internal Bounce Error	Indicates that an internal communication message between an A11 Manager task and a Session Manager task bounced (was not successfully sent).

Field	Description
Input-Q Exceeded	Indicates the number of times that the queue in which incoming calls are kept prior to being processed exceeded its capacity.
Mismatched Id	Indicates the total number of discarded registration acknowledgements due to reply code 85H (Registration Denied - identification mismatch).
Invalid Packet Length	Indicates the total number of registration acknowledgements that were discarded due to having an invalid packet length.
Misc Reasons	Indicates the number of registration acknowledgements that were discarded due to reasons other than those listed here.
GRE Send	
Total Packets Sent	Indicates the total number of Generic Routing Encapsulation (GRE) packets transmitted.
Total Bytes Sent	Indicates the total number of Generic Routing Encapsulation (GRE) bytes transmitted.