Bulk Statistics Changes Quick Reference

This chapter identifies bulk statistics changes added to, modified for, or deprecated from the StarOS 21.22 software release.

Important For more information regarding bulk statistics identified in this section, see the latest version of the *BulkstatStatistics_document.xls* spreadsheet supplied with the release.

Bulk statistics changes for 21.22 include:

New Bulk Statistics

This section identifies new bulk statistics and new bulk statistic schemas introduced in release 21.22.

ECS Schema

The following bulk statistics are added in the ECS schema to support Large and Managed flows:

Bulk Statistics	Description
tcp-active-base-large-flow-count	Indicates the number of TCP active-base-large-flow count for Cisco Ultra Traffic Optimization.
tcp-active-base-managed-large-flow-count	Indicates the number of TCP active-base-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-active-base-unmanaged-large-flow-count	Indicates the number of TCP active-base-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
tcp-active-ext-large-flow-count	Indicates the number of TCP active-ext-large-flow count for Cisco Ultra Traffic Optimization.

Bulk Statistics	Description
tcp-active-ext-managed-large-flow-count	Indicates the number of TCP active-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-active-ext-unmanaged-large-flow-count	Indicates the number of TCP active-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-base-large-flow-count	Indicates the number of TCP total-base-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-base-managed-large-flow-count	Indicates the number of TCP total-base-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-base-unmanaged-large-flow-count	Indicates the number of TCP total-base-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-ext-large-flow-count	Indicates the number of TCP active-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-ext-managed-large-flow-count	Indicates the number of TCP total-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
tcp-total-ext-unmanaged-large-flow-count	Indicates the number of TCP total-ext-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
udp-active-base-large-flow-count	Indicates the number of UDP active-base-large-flow-count count for Cisco Ultra Traffic Optimization.
udp-active-base-managed-large-flow-count	Indicates the number of UDP active-base-managed-large-flow count for Cisco Ultra Traffic Optimization.
udp-active-base-unmanaged-large-flow-count	Indicates the number of UDP active-base-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
udp-active-ext-large-flow-count	Indicates the number of UDP active-ext-large-flow count for Cisco Ultra Traffic Optimization.
udp-active-ext-managed-large-flow-count	Indicates the number of UDP active-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
udp-active-ext-unmanaged-large-flow-count	Indicates the number of UDP active-ext-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
udp-total-base-large-flow-count	Indicates the number of UDP total-base-large-flow count for Cisco Ultra Traffic Optimization.
udp-total-base-managed-large-flow-count	Indicates the number of UDP total-base-managed-large-flow count for Cisco Ultra Traffic Optimization.

Bulk Statistics	Description
udp-total-base-unmanaged-large-flow-count	Indicates the number of UDP total-base-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.
udp-total-ext-large-flow-count	Indicates the number of UDP total-ext-large-flow count for Cisco Ultra Traffic Optimization.
udp-total-ext-managed-large-flow-count	Indicates the number of UDP total-ext-managed-large-flow count for Cisco Ultra Traffic Optimization.
udp-total-ext-unmanaged-large-flow-count	Indicates the number of UDP total-ext-unmanaged-large-flow count for Cisco Ultra Traffic Optimization.

APN Schema

The following bulk statistics are introduced in support of the new feature:

Bulk Statistics	Description
invalid-dst-port-pkt-drop	This statistics indicates the total number of downlink packets dropped due to invalid destination port for a Non-IP APN PDN
pdn-non-ip-actsess	This statistics indicates the total number of active Non-IP sessions at APN.
pdn-non-ip-setupsess	This statistics indicates the total number of Non-IP session setup at APN.
pdn-non-ip-relsess	This statistics indicates the total number of Non-IP session release at APN.
invalid-tun-proto-pkt-drop	This statistics indicates the total number of downlink packets dropped due to invalid SGi tunnel protocol for a Non-IP APN PDN.
invalid-as-src-pkt-drop	This statistics indicates the total number of downlink packets dropped due to invalid application server source address for a Non-IP APN PDN.

P-GW Schema

The following bulk statistics are introduced in support of the new feature:

Bulk Statistics	Description
sessstat-pdn-non-ip-active	This statistic indicates the total number of active Non-IP PDNs at P-GW.

Bulk Statistics	Description
sessstat-pdn-non-ip-setup	This statistic indicates the total number of Non-IP PDNs setup at P-GW.
sessstat-pdn-non-ip-rel	This statistic indicates the total number of Non-IP PDNs released at P-GW.
sessstat-non-ip-ipv4addaloc	This statistic indicates the total number of times IPv4 address is allocated for Non-IP P-GW PDNs.
sessstat-non-ip-ipv6addaloc	This statistic indicates the total number of times IPv6 address is allocated for Non-IP P-GW PDNs.
sessstat-non-ip-addaloc-ipv4loacalpool	This statistic indicates the total number of times IPv4 address is allocated from local pool for Non-IP P-GW PDNs.
sessstat-non-ip-addaloc-ipv6loacalpool	This statistic indicates the total number of times IPv6 address is allocated from local pool for Non-IP P-GW PDNs.
udptunstat-ipv4sessact	This statistic indicates the total number of active UDP-IPv4 SGi tunnel.
udptunstat-ipv4sesssetup	This statistic indicates the total number of UDP-IPv4 SGi tunnel setup at P-GW.
udptunstat-ipv4sessrel	This statistic indicates the total number of UDP-IPv4 SGi tunnel setup at P-GW.
udptunstat-ipv6sessact	This statistic indicates the total number of active UDP-IPv6 SGi tunnel.
udptunstat-ipv6sesssetup	This statistic indicates the total number of UDP-IPv6 SGi tunnel setup at P-GW.
udptunstat-ipv6sessrel	This statistic indicates the total number of UDP-IPv6 SGi tunnel released at P-GW.
non-ip-pdn-to-user-pkt	This statistics indicates the total number of downlink packets sent on Non-IP P-GW PDNs.
non-ip-pdn-to-user-byte	This statistics indicates the total number of downlink bytes sent on Non-IP P-GW PDNs.
non-ip-pdn-from-user-pkt	This statistics indicates the total number of uplink packets received for Non-IP S-GW PDNs.
non-ip-pdn-from-user-byte	This statistic indicates the total number of uplink bytes with Non-IP S-GW PDNs.
sessstat-invalid-port-dnlkpktdrop	This statistics indicates the total number of downlink packets dropped due to invalid destination port for a Non-IP P-GW PDN.

Bulk Statistics	Description
sessstat-invalid-port-dnlkbytedrop	This statistics indicates the total number of downlink bytes dropped due to invalid destination port for a Non-IP P-GW PDN.
sessstat-invalid-tun-proto-dnlkpktdrop	This statistics indicates the total number of downlink packets dropped due to invalid SGi tunnel protocol for a Non-IP P-GW PDN.
sessstat-invalid-tun-proto-dnlkbytedrop	This statistics indicates the total number of downlink bytes dropped due to invalid SGi tunnel protocol for a Non-IP P-GW PDN.
sessstat-invalid-as-src-dnlkpktdrop	This statistics indicates the total number of downlink packets dropped due to invalid application server source address for a Non-IP P-GW PDN.
sessstat-invalid-as-src-dnlkbytedrop	This statistics indicates the total number of downlink bytes dropped due to invalid application server source address for a Non-IP P-GW PDN.

IMSA Schema

The following bulk statistics are included in the IMSA Schema to track high and low priority categories for WPS and Non-WPS users:

Bulk Statistics	Description
dpca-imsa-total-session-priority-channel	Shows the cumulative number of Wireless Priority subscribers.
dpca - imsa - total - sessions-switched -from - priority - channel	Shows the cumulative number of subscribers moved from Wireless Priority to Normal.
dpca - imsa- total- sessions-switched - to- priority- channel	Shows the cumulative number of subscribers moved from Normal to Wireless Priority.

Modified Bulk Statistics

None in this release.

Deprecated Bulk Statistics

None for this release.