Cisco Ultra Traffic Optimization Bulk Statistics Enhancements

Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	P-GW
Applicable Platform(s)	• ASR 5500 • VPC-DI
Feature Default	Disabled - Configuration Required
Related Changes in this Release	Not Applicable
Related Documentation	• *Statistics and Counters Reference Guide* • *P-GW Administration Guide*

Revision History

Revision Details	Release
In this release, Cisco Ultra Traffic Optimization show commands and outputs are enhanced to show Rx/Tx packets statistics for Uplink and Downlink for UDP and TCP split.	21.23

Feature Description

In this StarOS 21.23 release, the following show commands and bulk statistics schema counters are enhanced to show Rx/Tx packet statistics for Uplink and Downlink for UDP and TCP split in Cisco Ultra Traffic Optimization solution.

- show active-charging traffic-optimization counters sessmgr all
- show active-charging traffic-optimization counters tcp sessmgr all
- show active-charging traffic-optimization counters udp sessmgr all

Monitoring and Troubleshooting

Show Commands and Outputs

show active-charging traffic-optimization counters sessmgr all

You can view CUTO Control Plane statistics for the following show command.

Table 1: show active-charging traffic-optimization counters sessmgr all

Field	Description
CUTO Control Plane Stats:	
Total Active Streams	Displays total number of active streams.
Active TCP Streams	Displays total number of active TCP uplink and downlink streams received.
Active UDP(QUIC) Streams	Displays total number of active UDP uplink nd downlink streams transmitted.

You can also view similar outputs for the folowing show commands:

- **show active-charging traffic-optimization counters tcp sessmgr all**
- **show active-charging traffic-optimization counters udp sessmgr all**

Bulk Statistics

The following bulk statistics are added in the ECS schema.

ECS Schema

Table 2: Bulk Statistics Variables in the ECS Schema

Variables	Description
cuto-tcp-uplink-rx	Indicates that the total number of TCP packets received from the UE for Cisco Ultra Traffic Optimization.
cuto-tcp-uplink-tx	Indicates that the total number of TCP packets sent towards the UE for Cisco Ultra Traffic Optimization.
cuto-tcp-dnlink-rx	Indicates that the total number of TCP packets received from the internet for Cisco Ultra Traffic Optimization.
cuto-tcp-dnlink-tx	Indicates that the total number of TCP packets sent towards the internet for Cisco Ultra Traffic Optimization.
cuto-udp-uplink-rx	Indicates that the total number of UDP packets received from the UE for Cisco Ultra Traffic Optimization.
cuto-udp-uplink-tx	Indicates that the total number of UDP packets sent towards the UE for Cisco Ultra Traffic Optimization.
cuto-udp-dnlink-rx	Indicates that the total number of UDP downlink packets received from the internet for Cisco Ultra Traffic Optimization.
cuto-dnlink-tx	Indicates that the total number of downlink packets received from the internet for Cisco Ultra Traffic Optimization.