



## Bulkstats for Average Data Rate per IPPOOL

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### Feature Summary and Revision History

#### Summary Data

Applicable Product(s) or Functional Area	<ul style="list-style-type: none"><li>• GGSN</li><li>• P-GW</li></ul>
Applicable Platform(s)	<ul style="list-style-type: none"><li>• ASR 5500</li><li>• VPC - DI</li></ul>
Feature Default	Enabled - Always-on
Related Changes in This Release	Not Applicable
Related Documentation	<i>Statistics and Counters Reference</i>

#### Revision History

Revision Details	Release
First introduced.	21.3

### Feature Description

In this enhancement, bulkstat support has been added for fetching subscriber average data-rate per IP pool (cumulative of all sessmgr) for all the IP pools configured in the system.

# Monitoring and Troubleshooting

This section provides information on how to monitor and troubleshoot using show commands and bulk statistics available to support of this feature.

## Bulk Statistics

The following bulk stats have been added to the respective schemas as part of this feature:

### Datarate-IPPool Schema

The following bulk statistics are added to the Datarate-IPPool Schema:

- sess-datarate-ippool-name - Indicates name of the ip pool for which average data rates are fetched.
- sess-ave-rate-fuser-bps - indicates average data-rate(bits/sec) from user in uplink direction per ip pool basis.
- sess-ave-rate-tuser-bps - indicates average data-rate(bits/sec) to user in downlink direction per ip pool basis.
- sess-ave-rate-fuser-pps - indicates average packets/sec from user in uplink direction per ip pool basis.
- sess-ave-rate-tuser-pps - indicates average packets/sec to user in downlink direction per ip pool basis.

## Show Commands and/or Outputs

This section provides information regarding show commands and their outputs for this feature.

### show bulkstats schemas

This command has been modified to display the following output:

```
Bulk Statistics Server Configuration:
  Server State:           Enabled
  File Limit:             7500 KB
  Sample Interval:       10 minutes (0D 0H 10M)
  Transfer Interval:     15 minutes (0D 0H 15M)
  Receiver Mode:         Secondary-on-failure
  .....
  ----- Schemas for File 1 -----
  Type          Name          Active-Only Format
  -----
  datarate-ippool datarate_ippool1      No
  EMS,datarate_ippool1,%date%,%time%,%sess-datarate-ippool-name%,%sess-ave-rate-fuser-bps%,%sess-ave-rate-tuser-bps%,%sess-ave-rate-fuser-pps%,%sess-ave-rate-tuser-pps%
```

### show bulkstats data

This command has been modified to display the Bulk Statistics Server Configuration:

```
Server State:           Enabled
  File Limit:           7500 KB
```

```
Sample Interval:          10 minutes (0D 0H 10M)
Transfer Interval:       15 minutes (0D 0H 15M)
Receiver Mode:           Secondary-on-failure
.....
.....
Pending Data for File 1:
-----
EMS,datarate_ippool1,20170619,211715,pp2,455,455,1,1
```

## show subscribers data-rate ip-pool <pool\_name>

This command has been modified to display the following output:

```
Total Subscribers      : 1
Active                  : 1
Dormant                 : 0
peak rate from user(bps): 672
ave rate from user(bps) : 455
sust rate from user(bps): 455
peak rate from user(pps): 1
ave rate from user(pps) : 1
sust rate from user(pps): 0
peak rate to user(bps) : 672
ave rate to user(bps)  : 455
sust rate to user(bps) : 455
peak rate to user(pps) : 1
ave rate to user(pps)  : 1
sust rate to user(pps) : 0
```

show subscribers data-rate ip-pool <pool\_name>