Bulkstats for Average Data Rate per IPPOOL

Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	• GGSN • P-GW
Applicable Platform(s)	• ASR 5500 • VPC - DI
Feature Default	Enabled - Always-on
Related Changes in This Release	Not Applicable
Related Documentation	*Statistics and Counters Reference*

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

show subscribers data-rate ip-pool <pool_name>