



Detecting Reuse of TCP Ports

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Feature Summary and Revision History

Summary Data

Applicable Product(s) or Functional Area	P-GW
Applicable Platform(s)	<ul style="list-style-type: none">• ASR 5500• VPC-DI• VPC-SI
Feature Default	Disabled - Configuration Required
Related Changes in This Release	Not Applicable
Related Documentation	<ul style="list-style-type: none">• <i>Command Line Interface Reference</i>

Revision History

Revision Details	Release
P-GW supports TCP port reuse through CLI configuration.	21.28.m15

Feature Changes

Previous Behavior: In P-GW, the non-detection of TCP source port reuse lead to Out-of-order (OOO) packet and retransmission packet which inturn resulted in bypassing the charging module and traffic allowed to the server.

New Behavior: In P-GW, the **tcp-detect-port-reuse** CLI is introduced to control the specific flow matching the charging action to detect the source port reuse by TCP SYN packet. The **tcp-detect-port-reuse** CLI also clears the flow in which port is reused and creates new credentials.

Command Changes

This command allows you to detect the source port reuse by TCP packets. When a packet matches to the rule that includes charging action that is enabled with **tcp-detect-port-reuse**, TCP SYN packet checks for the port reuse. When port reuse is detected the respective flow is cleared and a new flow is created with the new credentials.

configure

```
context context-name
  active-charging service service_name
    charging-action charging_action_name
      [ no ] tcp-detect-port-reuse
```

NOTES

- **tcp-detect-port-reuse** : Detects the source port reuse by TCP packets. By default this CLI is disabled.
- **no** : Removes the **tcp-detect-port-reuse** configuration from the charging action.

Monitoring and Troubleshooting

This section provides information about the CLI commands available to monitor and/or troubleshoot TCP port reuse feature.

Show Command(s) and/or Outputs

show active-charging rulebase statistics name

This command displays the following specific flow information matching the charging action to detect the source port reuse. Following is a sample output:

```
show active-charging rulebase statistics name RB_IITC_DAIMLER
  Detect TCP Port Reuse and Flow Cleared: 1
[local]laas-setup# show active-charging charging-action statistics name CA_RG1_NORMAL
Service Name: ecs-svc1
Charging Action Name: CA_RG1_NORMAL
  Uplink Pkts Retrans: 32      Downlink Pkts Retrans: 7
  Uplink Bytes Retrans: 13567  Downlink Bytes Retrans: 3558
  Flows Readdressed: 0        PP Flows Readdressed: 0
  Bytes Charged Yet Packet Dropped: 0
  Predef-Rules Deactivated: 0
  Outer IP header dscp marked Pkts: 0
  Detect TCP Port Reuse and Flow Cleared: 1
```