

TCP Proxy-Enabled Flows

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Feature Summary and Revision History

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

Summary Data

Revision History

Revision Details	Release
With this release, behavior has changed for TCP proxy-enabled flows, when Port-reuse feature CLI command is either enabled or disabled.	21.11.7
First introduced.	Pre 21.2

Feature Changes

The change in behavior is related to the following scenarios:

- Scenario #1: When the Port-reuse feature CLI command is not used, that is, flow may be active, in 2msl, or pending deletion state.
- Scenario #2: When the Port-reuse feature CLI command is used, that is, flow is in 2msl state.

Previous Behavior: In Scenario #1, new SYN with existing 5-tuple was handled by the application on the old flow. The remaining packets, following the SYN, were treated as a non-SYN flow.

In Scenario #2, the application sent the last ACK toward the server, cleared the flow, and created a new flow to send the new SYN.

New Behavior: For Scenario#1, if flow is in active state, new SYN is dropped until flow exists on the chassis. If flow is in 2msl or pending deletion state, the flow is cleared immediately. New SYN is always handled on a new flow. Non-SYN flow is not created in this scenario.

For Scenario #2, old flow is cleared immediately (last ACK will already be sent by the Gi stack), and new SYN is handled on a new flow.

Customer Impact: This behavior change is applicable only to TCP proxy-enabled flows. There is no change in behavior for non-proxied flows.