



# Inner Fragmentation with VPP Non-CUPS Deployment

- [Feature Summary and Revision History, on page 1](#)
- [Feature Changes, on page 2](#)

## Feature Summary and Revision History

### Summary Data

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

### Revision History

Revision Details	Release
In this release, P-GW supports Inner Fragmentation with VPP Non-CUPS Deployment.	21.15.x

## Feature Changes

**Previous Behavior:** When VPP is enabled for non-CUPS deployment, GTP-U header, and transport layer length is not used to determine the inner fragmentation threshold while sending downlink packets towards S-GW/eNodeB. This resulted in outer fragmentation of downlink packets.

**New Behavior:** When VPP is enabled for non-CUPS deployment, GTP-U header, and transport layer length is used to decide the inner fragmentation threshold while sending downlink packets towards S-GW/eNodeB. This change is applicable for both IPv4 and IPv6 Packet Data Network (PDN) type.

**Customer Impact:** When VPP is enabled for non-CUPS deployment, there will be an overall reduction in downlink packets with outer fragmentation towards S-GW/eNodeB.