

De-Duplication Guide

PacketMAX: Advanced Features | AF1G52 | 3.0.15

De-Duplication Overview

The Advanced Features supports internal de-duplication of 100M per system. The de-duplication feature is disabled by default.

De-duplication, when enabled may be applied:

- On a TAP group
 - Ingress Port(s)
 - Ingress Link Aggregation Group
 - Ingress Port Group

If applied on a TAP group, de-duplication statistics are not displayed.

On a flow under the action section

If applied on a flow, de-duplication statistics are displayed TAP Management / TAP Statistics / De-duplicate Statistics Tab

De-duplication has five model options for de-duplicate packet consideration. One of the five models may be selected for the system.

Model 0 tcpflag

TCP/UDP checksum IP identification

TCP sequence number

TCP acknowledgment number

Model 1 tcpflag

TCP/UDP checksum IP identification

TCP sequence number

TCP acknowledgment number

payload

Model 2 tcpflag

TCP/UDP checksum IP identification

TCP sequence number

TCP acknowledgment number

payload

ipv4 header (except TTL / IP checksum / IPV4 extend header)



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Model 3 tcpflag

TCP/UDP checksum IP identification

TCP sequence number

TCP acknowledgment number

payload

ipv4 header (except TTL / IP checksum / IPV4 extend header)

vlan (include SP-VLAN and CE-VLAN)

Model 4 tcpflag

TCP/UDP checksum IP identification

TCP sequence number

TCP acknowledgment number

payload

ipv4 header (except TTL / IP checksum / IPV4 extend header)

vlan (include SP-VLAN and CE-VLAN)

destination mac source mac

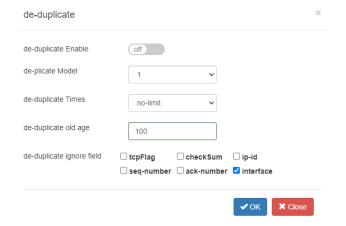
The prerequisite for deduplication is the Ether Type must be 0x0800 or 0x8100.

Only support VLAN add or remove action to co-operate with deduplication.

De-Duplication Configuration

- 1. Select TAP Management.
- 2. Select TAP Group Table.
- 3. Select de-duplicate.

The de-duplicate panel will be displayed.





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4. de-duplicate Enable enable

5. de-plicate Model Select the desired option, 0,1,2,3,4,5

6. de-duplicate Times Select the desired option, no-limit,0,1,2,3,4,5,6,7,8,9,10

7. de-duplicate old age Enter the desired value, 100ms to 1000ms.

The deduplication time is considered together with deduplication aging-time. For example we set Times = 10 and Aging Time = 100ms.

The deduplication starts working from the first packet arrived until the 10th packet, then take a waiting interval = 100ms, means in this interval system won't process deduplication.

8. de-duplicate ignore field Enable/disable the desired option(s),

tcpFlag, checkSum, ip-id, seq-number, ack-number, interface

- 9. Select OK.
- 10. Select de-duplicate to display configuration.
- 11. Select Close.