

## 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.

- |                |  |
|----------------|--|
| <b>Model 0</b> | tcpflag<br>TCP/UDP checksum<br>IP identification<br>TCP sequence number<br>TCP acknowledgment number   |
| <b>Model 1</b> | tcpflag<br>TCP/UDP checksum<br>IP identification<br>TCP sequence number<br>TCP acknowledgment number<br>payload  |
| <b>Model 2</b> | tcpflag<br>TCP/UDP checksum<br>IP identification<br>TCP sequence number<br>TCP acknowledgment number<br>payload<br>ipv4 header (except TTL / IP checksum / IPV4 extend header) |

<b>Model 3</b>	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)
<b>Model 4</b>	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.*

de-duplicate
✕

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de-duplicate Enable  off

de-duplicate Model

de-duplicate Times

de-duplicate old age

de-duplicate ignore field

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

✔ OK
✕ Close

- 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.