The Advanced Features supports internal de-duplication of 20G 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)
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 |

Model 4   tcpflag
TCP/UDP checksum
IP identification
TCP sequence number
TCP acknowledgment number
payload
ipv4 header (except TTL / IP checksum / IPV4 extend header)
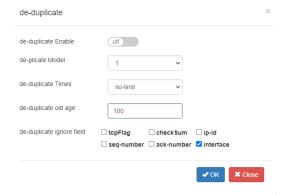vlan (include SP-VLAN and CE-VLAN)
destination mac
source mac

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.

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.