

De-Duplication Overview

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 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
✕

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.