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)

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.*

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.