

## TAP Group Overview

TAP Groups are always unidirectional connections from an ingress entity to an egress entity. An ingress entity may be an individual port, range of ports, Link Aggregation Group or Port Group. Egress entities may be an individual port, range of ports or Link Aggregation Group. TAP Groups control the method that traffic is received on an ingress entity, filtering, packet modifications and distribution to an egress entity. TAP Group modifications are limited to adding or deleting ingress and/or egress ports. This guide provides information to create TAP Groups regardless of the application.

The following options should be considered prior to creating a TAP Group.

### Direction Ingress

Port

Link Aggregation Name

*A Link Aggregation Group MUST be previously created.*

iloop

*The iloop port MUST be previously created.*

Port Group

*A Port Group MUST be previously created and a flow is required.*

Truncation

*Truncation MUST be previously enabled and value defined per the global option.*

Untag

Double VLAN

Outer VLAN

Inner VLAN

VLAN Mark

Flow

*A Flow MUST be previously created.*

Edit Packet

Destination MAC

Source MAC

Source IP Address

Destination IP Address

Edit VLAN

VLAN ID

VLAN COS

## Direction Egress

Port

Link Aggregation Name

*A Link Aggregation Group MUST be previously created.*

iloop

*A iloop port MUST be previously created.*

Timestamp

*Timestamp MUST be previously enabled.*

## Create a TAP Group

1. Select TAP Management.
2. Select TAP Group Table.
3. Select + Add TAP Group.

*The TAP Group Name panel will appear.*

TAP Group Name ×

---

TAP Group Name

TAP Group ID

---

4. Enter the TAP Group Name.
5. Enter the TAP Group ID if desired, optional.

*The system will assign an ID.*

6. Select OK.

*The TAP Group will be displayed.*

TAP Group Table						+ Add TAP Group	Truncation	Timestamp
#	TAP Id	TAP Group Name	TAP Group Description	TAP Group truncation	Options			
1	10	New	N/A	NO				

7. Select the TAP Group Name.

*The TAP Group panel will appear.*

New ×

---

Ingress

Egress

Egress/Ingress

+ Add

---

Ingress  Delete Selected

<input type="checkbox"/>	#	Port	Flow Match	Untag	Vlan mark	Truncation	Edit-macda	Edit-macsa	Edit-ipda	Edit-ipsa	Edit-vlan	Options

---

✖ Close

8. Select the + Add.

*The TAP Group add detail panel will appear.*

New
✕

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: right;"><b>Direction</b></td><td colspan="2">ingress</td></tr> <tr><td style="text-align: right;"><b>Port</b></td><td colspan="2"></td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-1 - 8:</td><td>□□□□□□□□</td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-9 - 16:</td><td>□□□□□□□□</td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-17 - 24:</td><td>□□□□□□□□</td></tr> <tr><td colspan="3"><b>Link Aggregation Name</b></td></tr> <tr><td colspan="3">iloop</td></tr> <tr><td colspan="3"><b>Port Group</b></td></tr> <tr><td colspan="3"><b>Truncation</b> <input type="checkbox"/></td></tr> <tr><td colspan="3"><b>Untag</b> <span>Disable ▾</span></td></tr> <tr><td colspan="3"><b>Vlan mark</b> <input type="checkbox"/></td></tr> <tr><td colspan="3"><b>Flow Match</b> <input type="checkbox"/></td></tr> <tr><td colspan="3"><b>Edit packet</b> <input type="checkbox"/></td></tr> </table>	<b>Direction</b>	ingress		<b>Port</b>			<input type="checkbox"/>	eth-0-1 - 8:	□□□□□□□□	<input type="checkbox"/>	eth-0-9 - 16:	□□□□□□□□	<input type="checkbox"/>	eth-0-17 - 24:	□□□□□□□□	<b>Link Aggregation Name</b>			iloop			<b>Port Group</b>			<b>Truncation</b> <input type="checkbox"/>			<b>Untag</b> <span>Disable ▾</span>			<b>Vlan mark</b> <input type="checkbox"/>			<b>Flow Match</b> <input type="checkbox"/>			<b>Edit packet</b> <input type="checkbox"/>			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: right;"><b>Direction</b></td><td colspan="2">egress</td></tr> <tr><td style="text-align: right;"><b>Port</b></td><td colspan="2"></td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-1 - 8:</td><td>□□□□□□□□</td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-9 - 16:</td><td>□□□□□□□□</td></tr> <tr><td><input type="checkbox"/></td><td>eth-0-17 - 24:</td><td>□□□□□□□□</td></tr> <tr><td colspan="3"><b>Link Aggregation Name</b></td></tr> <tr><td colspan="3">iloop</td></tr> <tr><td colspan="3"><b>Timestamp</b> <input type="checkbox"/></td></tr> </table>	<b>Direction</b>	egress		<b>Port</b>			<input type="checkbox"/>	eth-0-1 - 8:	□□□□□□□□	<input type="checkbox"/>	eth-0-9 - 16:	□□□□□□□□	<input type="checkbox"/>	eth-0-17 - 24:	□□□□□□□□	<b>Link Aggregation Name</b>			iloop			<b>Timestamp</b> <input type="checkbox"/>		
<b>Direction</b>	ingress																																																															
<b>Port</b>																																																																
<input type="checkbox"/>	eth-0-1 - 8:	□□□□□□□□																																																														
<input type="checkbox"/>	eth-0-9 - 16:	□□□□□□□□																																																														
<input type="checkbox"/>	eth-0-17 - 24:	□□□□□□□□																																																														
<b>Link Aggregation Name</b>																																																																
iloop																																																																
<b>Port Group</b>																																																																
<b>Truncation</b> <input type="checkbox"/>																																																																
<b>Untag</b> <span>Disable ▾</span>																																																																
<b>Vlan mark</b> <input type="checkbox"/>																																																																
<b>Flow Match</b> <input type="checkbox"/>																																																																
<b>Edit packet</b> <input type="checkbox"/>																																																																
<b>Direction</b>	egress																																																															
<b>Port</b>																																																																
<input type="checkbox"/>	eth-0-1 - 8:	□□□□□□□□																																																														
<input type="checkbox"/>	eth-0-9 - 16:	□□□□□□□□																																																														
<input type="checkbox"/>	eth-0-17 - 24:	□□□□□□□□																																																														
<b>Link Aggregation Name</b>																																																																
iloop																																																																
<b>Timestamp</b> <input type="checkbox"/>																																																																

## Direction Ingress

9. Select the desired ingress port(s), optional. Ingress ports may be selected individually or by range. Grayed port(s) may not be selected.
10. Select the desired Link Aggregation Name, optional. The link aggregation group MUST be previously created.
11. Select the desired iloop port, optional. The iloop port MUST be previously created.
12. Select the desired Port Group, optional. The port group MUST be previously created.
13. Truncation may be applied. When enabled all other options are disabled. The truncation value will be applied per the global truncation value previously configured.
14. Untag may be applied. Untag has three options, double-vlan, outer-vlan and inner-vlan. This option is controlled by the Svlan-tpid value applied to the ingress port(s). The port Svlan-tpid value may be displayed or modified on the Interface Management / Interface Status panel.
15. VLAN Mark may be applied. The range is 1-4094. This option is controlled by the Svlan-tpid value applied to the ingress port(s). The port Svlan-tpid value may be displayed or modified on the Interface Management / Interface Status panel.
16. Flow Match may be applied. A flow must be previously created to appear in the flow pull down panel. Flows control three functions, permit or deny traffic, provide filtering options and determine actions applied. The flow match option may be disabled and a pass all option will be applied. However, if no

flow is applied the option to display TAP statistics, under the TAP Management / TAP Statistics panel is disabled.

17. Edit packet may be applied. DMAC, SMAC, SIP, DIP and VLAN packet modifications are supported. Packet modifications will be made to any ingress entity selected.

## Direction Egress

18. Select the desired egress port(s), optional. Egress ports may be selected individually or by range. Grayed port(s) may not be selected.
19. Select the desired Link Aggregation Name, optional. The link aggregation group MUST be previously created.
20. Select the desired iloop port, optional. The iloop port MUST be previously created.
21. Timestamp may be applied. Timestamp MUST be previously enabled.
22. Select OK to save the TAP Group.
23. Select Close to cancel.

*The TAP Group will be displayed.*

The screenshot shows a configuration window titled 'New' with a close button (x) in the top right. Below the title bar are three tabs: 'Ingress', 'Egress', and 'Egress/Ingress', with a '+ Add' button on the right. The 'Ingress' tab is active, displaying a table with the following columns: #, Port, Flow Match, Untag, Vlan mark, Truncation, Edit-macda, Edit-macsa, Edit-ipda, Edit-ipsa, Edit-vlan, and Options. A 'Delete Selected' button is located in the top right of the table area. The table contains one row with the following data: # 1, Port eth-0-1, Flow Match N/A, Untag Disable, Vlan mark N/A, Truncation Disable, Edit-macda N/A, Edit-macsa N/A, Edit-ipda N/A, Edit-ipsa N/A, Edit-vlan N/A, and Options with a trash can icon.

#	Port	Flow Match	Untag	Vlan mark	Truncation	Edit-macda	Edit-macsa	Edit-ipda	Edit-ipsa	Edit-vlan	Options
<input type="checkbox"/> 1	eth-0-1	N/A	Disable	N/A	Disable	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/>

✖ Close

24. Select Ingress to display the ingress entities and options. Individual ports may be deleted by selecting the Trash Can. A range of ports may be deleted by selecting the boxes and select Delete Selected.
25. Select Egress to display the egress entities and options. Individual ports may be deleted by selecting the Trash Can. A range of ports may be deleted by selecting the boxes and select Delete Selected.

26. Select Egress/Ingress to display the egress and ingress entities and options. Individual ports may be deleted by selecting the Trash Can. A range of ports may be deleted by selecting the boxes and select Delete Selected.
27. Select + Add to apply additional ingress or egress entities.