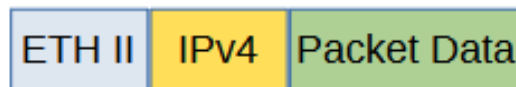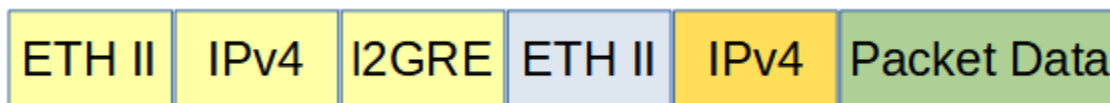## AF1G40AC

l2GRE Encapsulate

Overview:

When a packet is encapsulated with a l2GRE header the new l2GRE header segments are added to the original packet. The l2GRE header segments consists of Ethernet II, IPv4 and l2GRE as shown below.

Original Packet

l2GRE Encapsulated Packet

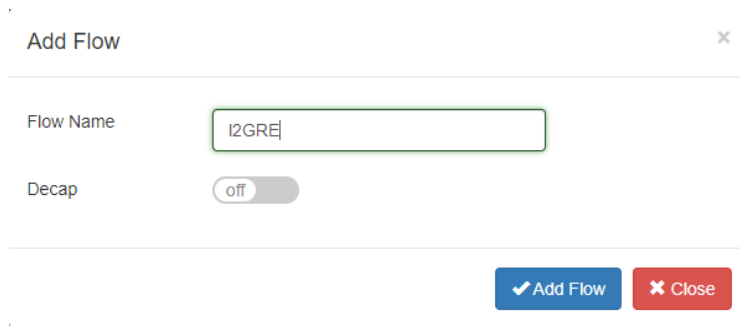Encapsulating a packet with a l2GRE header involves two configuration processes.

1. Create a Flow

2. Create a Tap Group

1. Create a Flow

The flow defines which packets will be encapsulated with a l2GRE header. Packets that do not meet the flow attributes will not be encapsulated. In some cases, it may be required to create more than 1 flow.
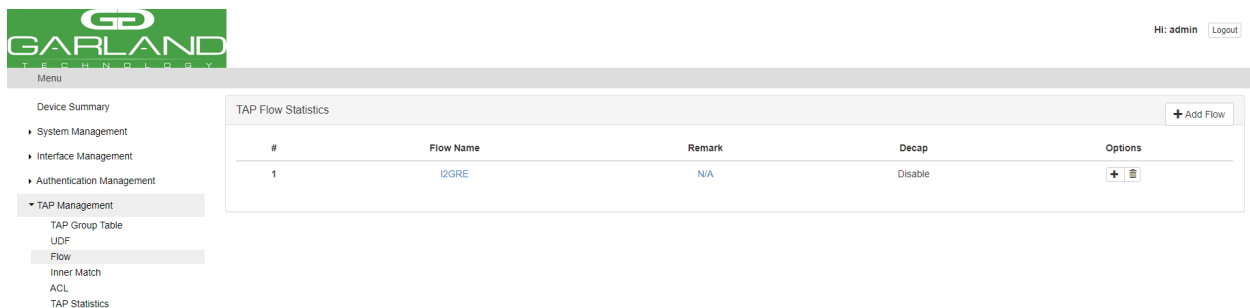
1. Select Tap Management.

2. Select Flow.

3. Select + Add Flow.

> The Add Flow panel will appear.

4. Enter the Flow Name.

5. Select Add Flow.

> The flow will be displayed.

6. Select the + in the Options column for the desired flow to define the flow attributes.

The Add Flow Entry panel will be displayed.
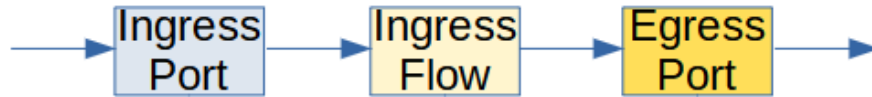

7. Under Match Rule select the desired options and enter the desired values to define which packets are encapsulated with a l2GRE header. If desired the default options may be used to encapsulate all packets.

8. Under Action, select Add l2gre.

9. Enter the desired L2gre-src-ip. This defines the Source IP in the IPv4 segment of the l2GRE header.

10. Enter the desired L2gre-dest-ip. This defines the Destination IP in the IPv4 segment of the l2GRE header.

11. Enter the desired L2gre-dst-mac. This defines the Destination MAC in the Ethernet II segment of the l2GRE header.

12. Select the L2gre-key-length, 16, 20, 24, 32. The default is 24.

13. Enter the L2gre-key-num, 1-16777215.

14. Select OK.

3

2. Create a Tap Group

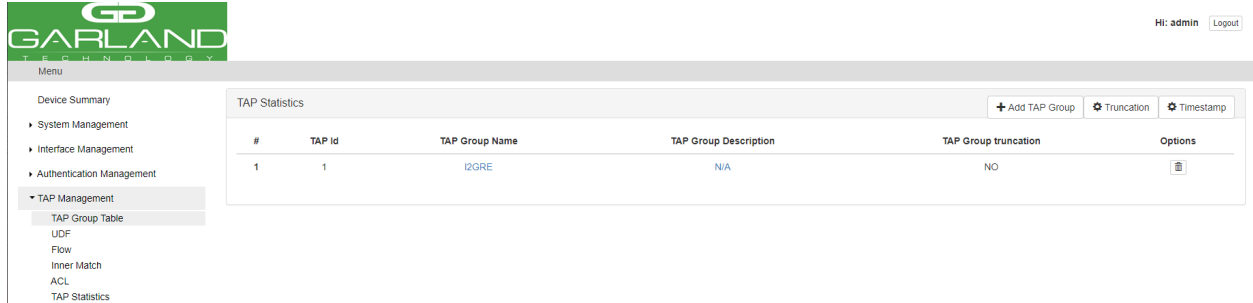The Tap Group defines the ingress port, ingress flow and egress port.

1. Select Tap Management.

2. Select TAP Group Table.

3. Select + Add TAP Group.
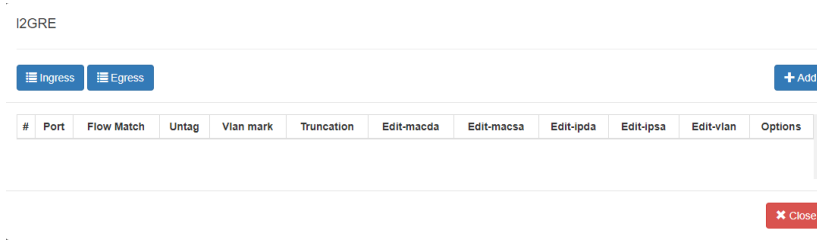
The TAP Group Name panel will appear.

4. Enter the TAP Group Name.

5. Select OK.
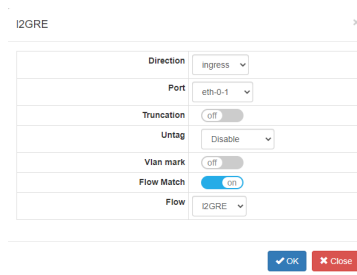
4

The Tap Group will be displayed.

6. Place the cursor on the tap group name under the TAP Group Name column and press the left mouse button.
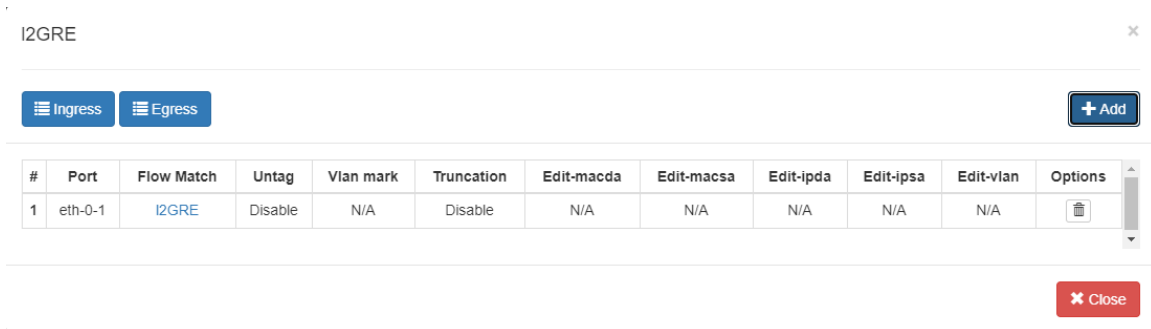
The TAP group panel will appear.

7. Select the + Add to define the ingress port and ingress flow.
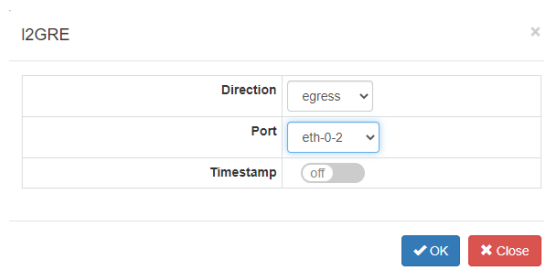
The add panel will appear.

8. Select the Direction, ingress.

9. Select the desired ingress port.

10. Enable Flow Match.

11. Select the l2GRE flow.

12. Select OK.

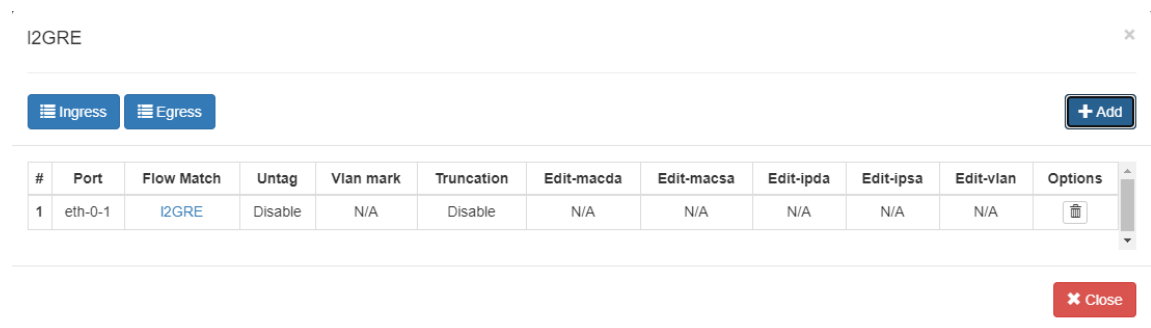13. Select the + Add to define the egress port.

> The add panel will appear.

14. Select the Direction, egress.

15. Select the desired egress port.
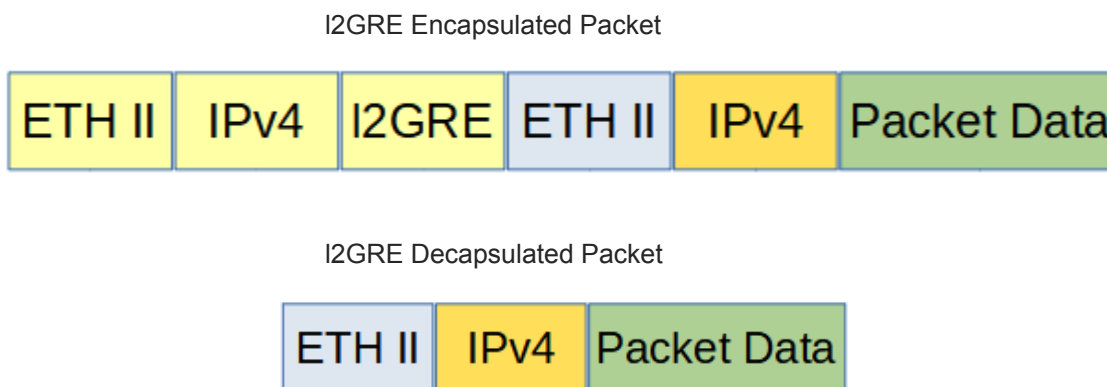
16. Select OK.

17. The ingress port, ingress flow, and egress port may be displayed by selecting Ingress or Egress. Additional ingress ports, ingress flows, or egress ports may be added to the Tap Group using the same steps.

18. Select Close to return the TAP Group Table display.

l2GRE Decapsulate

Overview:

When a l2GRE packet is decapsulated the l2GRE header segments are removed from the packet.

l2GRE Encapsulated Packet

| ETH II | IPv4 | l2GRE | ETH II | IPv4 | Packet Data |

l2GRE Decapsulated Packet

| ETH II | IPv4 | Packet Data |

Decapsulating the l2GRE header from a packet involves two configuration processes.
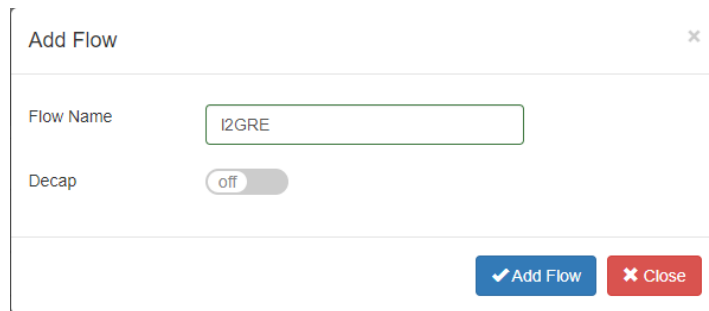
1. Create a Flow

2. Create a Tap Group

1. Create a Flow

The flow defines which l2GRE packets will be decapsulated. Packets that do not meet the flow attributes will not be decapsulated. In some cases it may be required to create more than 1 flow.
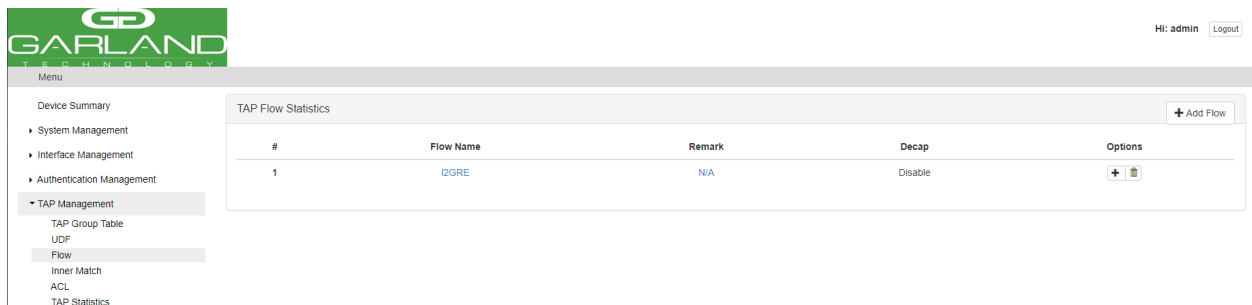
1. Select Tap Management.

2. Select Flow.

3. Select + Add Flow.

The Add Flow panel will appear.

4. Enter the Flow Name.

5. Select Add Flow.

The flow will be displayed.

6. Select the + in the Options column for the desired flow to define the flow attributes.

The Add Flow Entry panel will be displayed.

7. Under Match Rule select nvgre for the IP Protocol Number.

8. Select the other desired options and enter the desired values to define which l2GRE packets are decapsulated. The defaults may be used to decapsulate all l2GRE packets.

9. Under Actions enable Strip-header.

10. Select OK.

2. Create a Tap Group
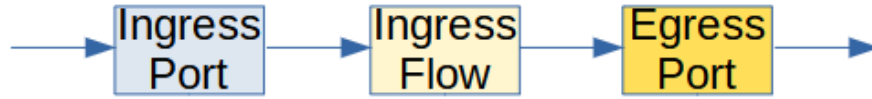
The Tap Group defines the ingress port, ingress flow and egress port.

1. Select Tap Management.

2. Select TAP Group Table.

3. Select + Add TAP Group.

The TAP Group Name panel will appear.

4. Enter the TAP Group Name.

5. Select OK.

The Tap Group will be displayed.

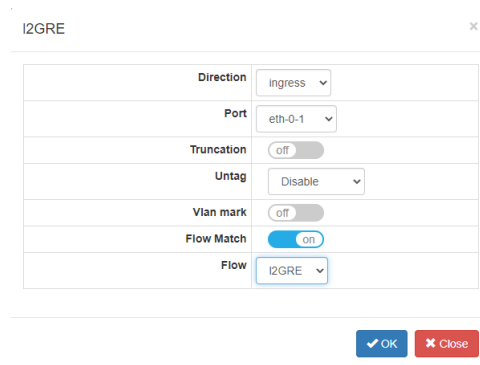6. Place the cursor on the tap group name under the TAP Group Name column and press the left mouse button.

      The TAP group panel will appear.

7. Select the + Add to define the ingress port and ingress flow.

      The add panel will appear.

8. Select the Direction, ingress.

9. Select the desired ingress port.

10. Enable Flow Match.

11. Select the l2GRE flow.

12. Select OK.

13. Select the + Add to define the egress port.

    The add panel will appear.

14. Select the Direction, egress.

15. Select the desired egress port.

16. Select OK.

17. The ingress port, ingress flow and egress port may be displayed by selecting Ingress or Egress. Additional ingress ports, ingress flows or egress ports may be added to the Tap Group using the same steps.

18. Select Close to return the the TAP Group Table display.