AF1G52AC

GTP Decapsulate

Overview:

When a GTP packet is decapsulated the GTP header segments are removed from the packet. When determining which GTP packets are decapsulated there are two options, all GTP packets or GTP packets with specific TEIDs.

Decapsulating the GTP 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 GTP 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.

1.1 Flow - Decapsulate All GTP Packets

1. Select Tap Management.
2. Select 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.

8. Select Src-port.
9. Select eq (equal).
10. Enter 2152.
11. Select Dst-port.
12. Select eq (equal).
13. Enter 2152.
15. Select Strip-position.
16. Select Type, L4.
17. Select Strip-offset.
18. Enter 12.
20. Select Edit-macda.
21. Enter the desired destination MAC.
22. Select Edit-macsa.
23. Enter the desired source MAC.
24. Select OK.

1.2 Flow - Decapsulate GTP Packets per GTP TIED

This method utilizes a UDF filter to define the GTP TEID and it must be created prior to creating the Flow.

1. Select Tap Management.
2. Select UDF.
3. Select + Add UDF.

   The Add UDF panel will appear.

4. UDF Type, select L4 header.
5. UDF ID, select 0-15.
6. Select Add UDF.
   
The UDF will be displayed.

7. Select the Edit icon under the Options column.
   
The Edit UDF entry panel will appear.

9. Select udp.
10. Select UDF Offset0.
11. Value, 12.
12. Select OK.
The Add Flow panel will appear.

![Add Flow Panel]

14. Enter the Flow Name.

15. Select Add Flow.

The flow will be displayed.

![Flow Displayed]

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

The Add Flow Entry panel will be displayed.

8. Select Src-port.

9. Select eq (equal).

10. Enter 2152.
11. Select Dst-port.
12. Select eq (equal).
13. Enter 2152.
14. Select UDF.
15. Select Type, L4.
16. UDF ID, select the previously created UDF.
18. Select UDF0 type, value.
19. Enter the desired GTP TEID value, (0xXXXXXXXX)
20. Enter the desired UDF0 Wildcard, (0xXXXXXXXX), 0=match exact, F=any value.
22. Select Strip-position.
23. Select Type, L4.
24. Enter Value, 12.
25. Select Edit packet.
27. Enter the desired destination MAC.
28. Select Edit-macsa.
29. Enter the desired source MAC.
30. 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.

   ![TAP Group Name Panel](image)

   - TAP Group Name: GTP
   - TAP Group ID: 0

4. Enter the TAP Group Name.
5. Select OK.

   The Tap Group will be displayed.

   ![Tap Group Displayed](image)

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.

   ![TAP Group Panel](image)
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. Select Flow Match.
11. Select the GTP flow.
12. Select OK.

13. Select the + Add to define the egress port.
    The add panel will appear.

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.