





When the MPLS label(s) are removed from a packet, the packet maintains the original L2, L3 and packet data as shown below.

MPLS Packet



MPLS Packet - Labels Removed



The Advanced Features MPLS abilities:

- Strip up to 9 MPLS labels
- Filter on up to 3 MPLS Labels

Stripping and/or filtering MPLS labels on packets involves two configuration procedures.

- Create a flow. A flow may be created to perform the following:
 - Strip MPLS labels from packets based on IP Protocol number

Strip MPLS labels based on filtering up to 3 MPLS Labels, 1st, 2nd and 3rd

Filter MPLS packets based on filtering up to 3 MPLS Labels, 1st, 2nd and 3rd

Filter MPLS packets based on IP Protocol

Filter MPLS packets based on Ether Type

Create a TAP Group

This document discusses the procedure to create MPLS flows. The procedure to create a TAP Group is discussed in the TAP Group Guide.





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Create a 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 to define the attributes.

The Add Flow Entry panel will be displayed.

The Add Flow Entry panel is divided into two sections, match rule and action.

Match Rule Section

- Defines whether the packets are permitted or denied
- Determines the permitted or denied packet filter criteria
- Determines which permitted packets will be modified by any action(s) selected and defined in the action section

Action Section

 The action section is used to define the modification(s) that will be performed on any packet(s) that is permitted by the match rule section





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Strip MPLS Labels (IP Protocol)

This flow may be used to strip all of the MPLS labels from packets without specifying the number of MPLS labels or using filtering to determine which MPLS packets are affected.

Flow Match Rule Options

- 1. Action permit
- 2. IP Protocol Number mpls
- 3. Mpls enable enable

Flow Action Options

- 4. Strip-header enable
- 5. Select OK.
- 6. Select the flow name to display the attributes.

The Flow Entry panel will be displayed



Additional entries may be created for the flow. Entries may be deleted by selecting the Trash Can. Entries may not be modified.

Strip MPLS Labels (Strip 1-9 Labels and Filter on 1st, 2nd and 3rd)

This flow may be used to strip all of the MPLS labels from packets by specifying the packets that meet the number of MPLS labels and using filtering to determine which MPLS packets are affected.

Flow Match Rule Options

- 1. Action permit
- 2. IP Protocol Number mpls
- 3. Mpls enable enable
- 4. Number Select the MPLS label number, 1-9. The MPLS labels will only be stripped from

the packets that match the number selected. If 7 is selected, packets with 1-6,

8-9 MPLS labels will not be affected.

5. label 1 any If any is selected this flow will not use the 1st MPLS label as a filter

option.



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6. label 1 number If number is selected an option will appear to enter the matching

MPLS 1st label.

7. label1_number Enter the desired number. Range is 0 to 1048575.

8. label2 any If any is selected this flow will not use the 2nd MPLS label as a filter

option.

9. label2 number If number is selected an option will appear to enter the matching

MPLS 2nd label.

10. label2_number Enter the desired number. Range is 0 to 1048575.

11. label3 any If any is selected this flow will not use the 3rd MPLS label as a filter

option.

12. label3 number If number is selected an option will appear to enter the matching

MPLS 3rd label.

13. label 3 number Enter the desired number. Range is 0 to 1048575.

Flow Action Options

14. Strip-header enable

15. Select OK.

16. Select the flow name to display the attributes.

The Flow Entry panel will be displayed



Additional entries may be created for the flow. Entries may be deleted by selecting the Trash Can. Entries may not be modified.

Filter MPLS Packets (Filter on 1st, 2nd and 3rd)

This flow may be used to filter MPLS packets based on the 1st, 2nd and 3rd MPLS label number.

Flow Match Rule Options

1. Action permit

2. IP Protocol Number mpls

3. Mpls enable enable

4. Number Select the MPLS label number, 1-9. The MPLS labels will only be stripped from

the packets that match the number selected. If 7 is selected, packets with 1-6,

8-9 MPLS labels will not be affected.



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5. label 1 any If any is selected this flow will not use the 1st MPLS label as a filter

option.

6. label 1 number If number is selected an option will appear to enter the matching

MPLS 1st label.

7. label 1 number Enter the desired number. Range is 0 to 1048575.

8. label2 any If any is selected this flow will not use the 2nd MPLS label as a filter

option.

9. label2 number If number is selected an option will appear to enter the matching

MPLS 2nd label.

10. label 2 number Enter the desired number. Range is 0 to 1048575.

11. label3 any If any is selected this flow will not use the 3rd MPLS label as a filter

option.

12. label3 number If number is selected an option will appear to enter the matching

MPLS 3rd label.

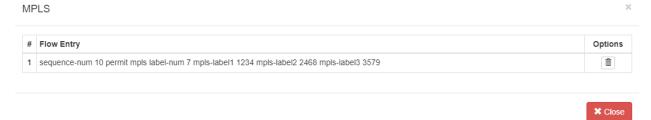
13. label 3 number Enter the desired number. Range is 0 to 1048575.

Flow Action Options

14. Select OK.

15. Select the flow name to display the attributes.

The Flow Entry panel will be displayed



Additional entries may be created for the flow. Entries may be deleted by selecting the Trash Can. Entries may not be modified.

Filter MPLS Packets (Filter on IP Protocol)

This flow may be used to filter MPLS packets based on IP Protocol only.

Flow Match Rule Options

1. Action permit

2. IP Protocol Number mpls

3. Mpls enable enable



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Flow Action Options

- 4. Select OK.
- 5. Select the flow name to display the attributes.

The Flow Entry panel will be displayed



Additional entries may be created for the flow. Entries may be deleted by selecting the Trash Can. Entries may not be modified.

Filter MPLS Packets (Filter on Ether Type)

This flow may be used to filter MPLS packets based on Ether Type only.

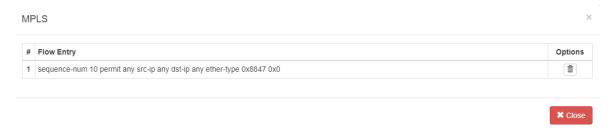
Flow Match Rule Options

- 1. Action permit
- 2. IP Protocol Number any
- 3. Ether Type enable
- 4. Value 0x8847
- 5. Wildcard 0x0

Flow Action Options

- 6. Select OK.
- 7. Select the flow name to display the attributes.

The Flow Entry panel will be displayed.



Additional entries may be created for the flow. Entries may be deleted by selecting the Trash Can. Entries may not be modified.