

mlx5dv\_create\_flow\_action\_packet\_reformat(3)

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## NAME

mlx5dv\_create\_flow\_action\_packet\_reformat – Flow action reformat packet for mlx5 provider

## SYNOPSIS

```
#include <infiniband/mlx5dv.h>

struct ibv_flow_action *
mlx5dv_create_flow_action_packet_reformat(struct ibv_context *ctx,
                                         size_t data_sz,
                                         void *data,
                                         enum mlx5dv_flow_action_packet_reformat_type reformat,
                                         enum mlx5dv_flow_table_type ft_type)
```

## DESCRIPTION

Create a packet reformat flow steering action. It allows adding/removing packet headers.

## ARGUMENTS

*ctx*

RDMA device context to create the action on.

*data\_sz*

The size of *\*data\** buffer.

*data*

A buffer which contains headers in case the actions requires them.

*reformat\_type*

The reformat type to be create. Use enum `mlx5dv_flow_action_packet_reformat_type`.

`MLX5DV_FLOW_ACTION_PACKET_REFORMAT_TYPE_L2_TUNNEL_TO_L2`: Decap a generic L2 tunneled packet up to inner L2.

`MLX5DV_FLOW_ACTION_PACKET_REFORMAT_TYPE_L2_TO_L2_TUNNEL`: Generic encaps, *data* should contain the encapsulating headers.

`MLX5DV_FLOW_ACTION_PACKET_REFORMAT_TYPE_L3_TUNNEL_TO_L2`: Will do decap where the inner packet starts from L3. *data* should be MAC or MAC + vlan (14 or 18 bytes) to be appended to the packet after the decap action.

`MLX5DV_FLOW_ACTION_PACKET_REFORMAT_TYPE_L2_TO_L3_TUNNEL`: Will do encaps where is L2 of the original packet will not be included. *data* should be the encapsulating header.

*ft\_type*

It defines the flow table type to which the packet reformat action will be attached.

## RETURN VALUE

Upon success `mlx5dv_create_flow_action_packet_reformat` will return a new `struct ibv_flow_action` object, on error NULL will be returned and `errno` will be set.

## SEE ALSO

`ibv_create_flow(3)`, `ibv_create_flow_action(3)`