**Various message type description**

**NS: on what condition is the message sent by the sending node, what does the receiving node do?**

**Msg type =1**

Describes about receiving helllo msg and keeps it in count according to etherhead position in the name of tieraddres.once a new port is discovered the adv is stored in tieraddress and time diff is calculated based on port interface with ref to tieraddr

**Msg type= 2**

Firstly here mplr data packet is received and stored in buffer along with which source tier source tier length, destination tier, destination tier length is obtained based on temp location in ethhead.once mplr data packet is received we have to forward it based on packetforward alg and increase errorcount if error is discovered.During forwarding if not null decapsulate the data based on protocols

**Msg type =5:**

Adds the remaining data entries to transfer.

The action performed is based on the tier value:

If it's 1 append the other node data to ethhead and decrement the totalentry count

If it's equal to the end node address state it's index information along with it

If it's equal to endnode update which means it is not implemented

If its equal to endnode remove its indicates a wrong action saying it to be removed

setInterfaces () function is called

**checkMSGType == MSG\_TYPE\_JOIN :**

When the lower tier nodes request for the labels from the parent node, then the parent node creates the label for that particular child node, then the parent node sends the MSG\_TYPE\_LABELS\_AVAILABLE to all the interfaces.

**Line 1482:**

**checkMSGType == MSG\_TYPE\_LABELS\_AVAILABLE :**

When the parent node sends all the newly created label, the requesting child node accepts the label and sets the label to itself. But if an label is assigned already to child node, then the label to stored in the tier address list. Then the MESSAGE\_TYPE\_LABELS\_ACCEPTED is sent.

**Line 1638 :**

**checkMSGType == MESSAGE\_TYPE\_LABELS\_ACCEPTED :**

It only prints the following line “Received MESSAGE\_TYPE\_LABELS\_ACCEPTED”

**Line 1653 :**

**checkMSGType == MESSAGE\_TYPE\_MY\_LABELS\_ADD :**

This is used to add the label value in the Neighbour table if it’s a new node or update the value in the Neighbour table if it’s not a new node.

**Line 1704 :**

**checkMSGType == MESSAGE\_TYPE\_MY\_LABELS\_DELETE :**

This is used to remove (delete) the node from the linked list, then all the related nodes (child nodes) of the deleted nodes are also removed from the list.

**Line 1766 :**

**checkMSGType == 12 :**

The lower tier node that needs to send the data packet to another node in another network sends it’s source and destination to the parent node (node - 0), now the parent node resolves the destination node and sends the destination node about the source labels.