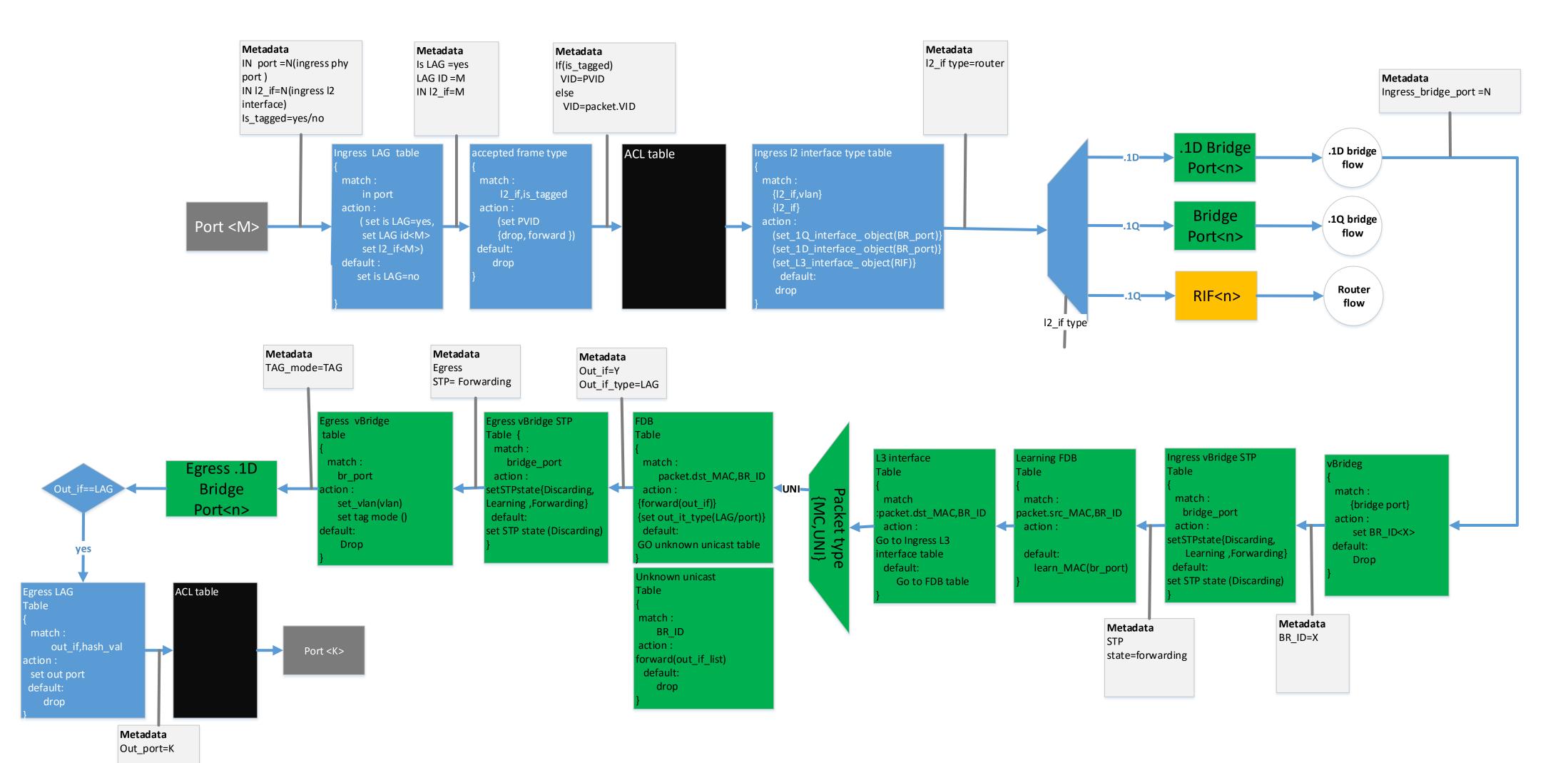
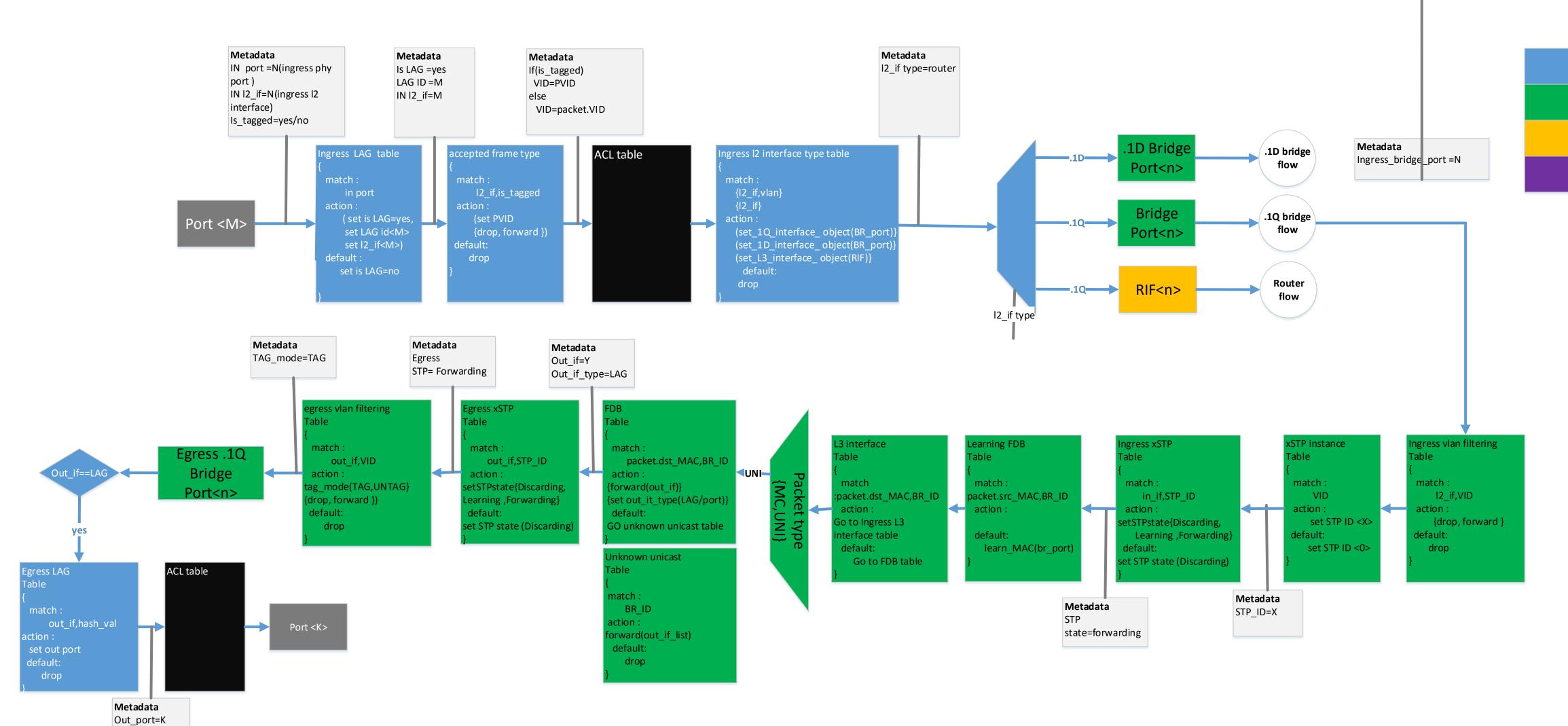
Ingress port flow

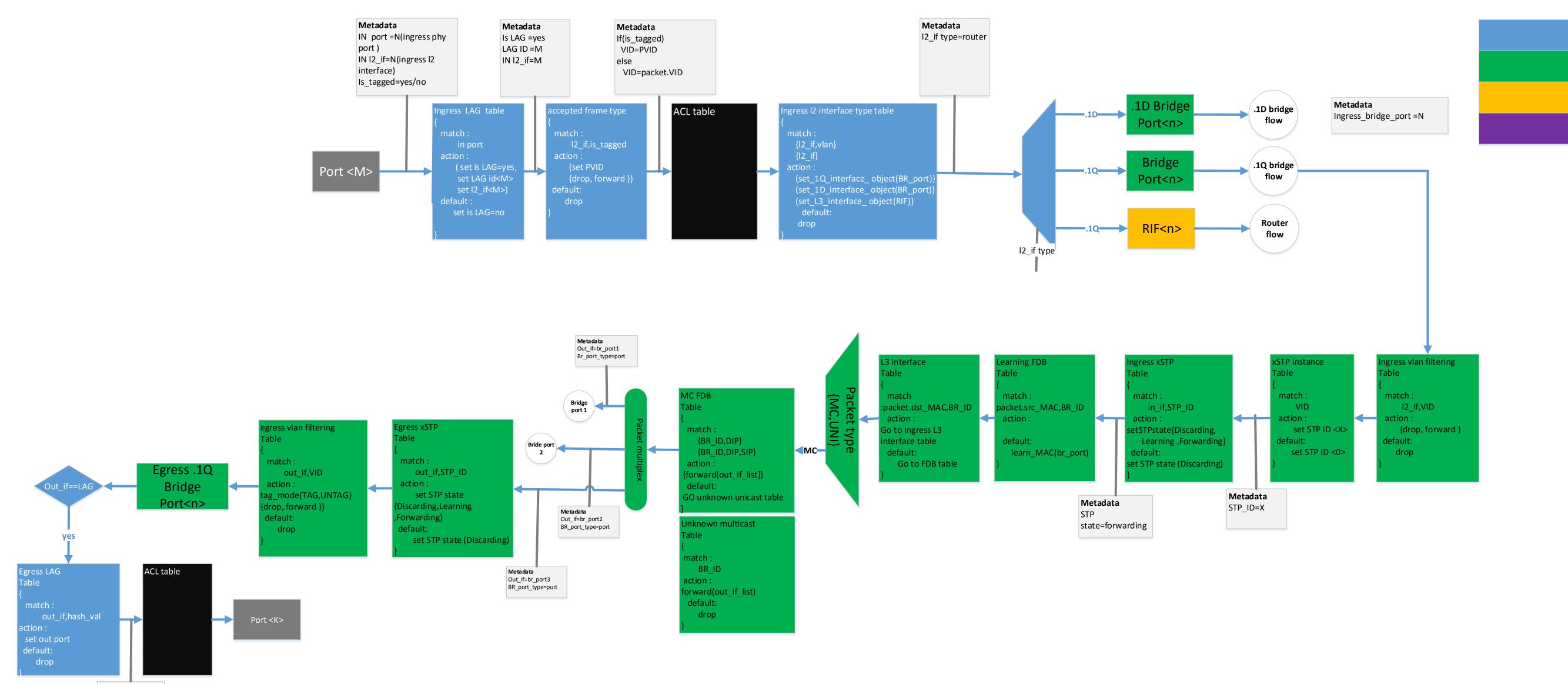


port
bridge
router
tunnel

Ingress port flow



port
bridge
router
tunnel



MetadataOut_port=K

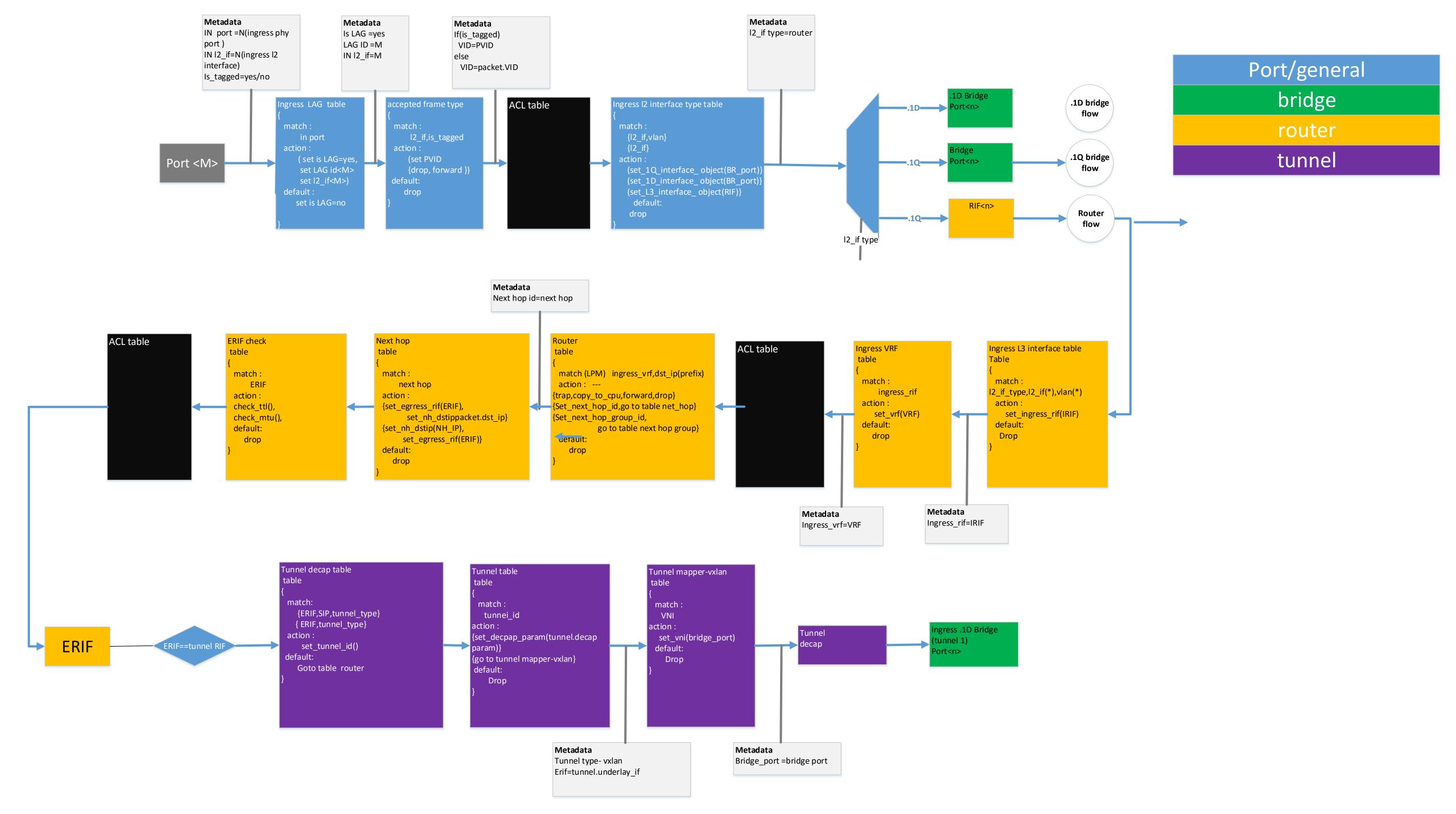
port

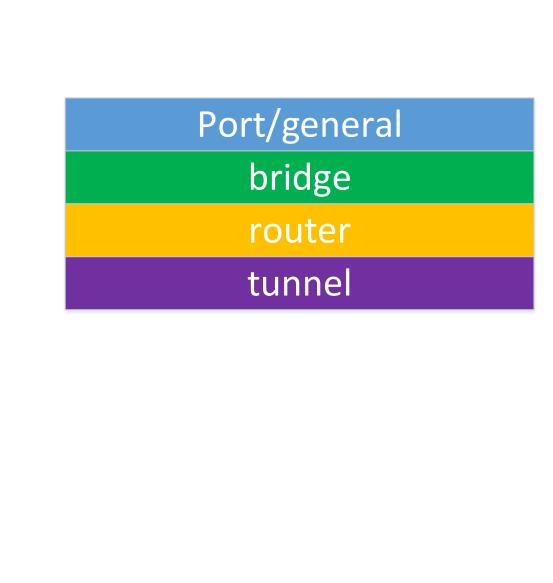
bridge

router

tunnel

Port/general Ingress port flow bridge router Metadata Metadata I2_if type=router Metadata Metadata IN port =N(ingress phy Is LAG =yes If(is_tagged) VID=PVID tunnel LAG ID =M Metadata IN I2_if=N(ingress I2 Ingress_bridge_port =N IN I2_if=M else interface) VID=packet.VID Is_tagged=yes/no .1D bridge flow ACL table epted frame type ess I2 interface type table gress LAG table I2_if,is_tagged {I2_if,vlan} in port .1Q bridge flow (set is LAG= (set PVID set LAG id<N set I2_if<M> (set_1Q_interface_ object(BR_poi (set_1D_interface_ object(BR_poi (set_L3_interface_ object(RIF)) default: default : set is LAG=no Metadata TAG_mode=TAG Metadata Egress STP= Forwarding natch: acket.src_MAC,BR_ID in_if,STP_ID l2_if,VID acket.dst_MAC,BR_II out_if,VID out if,STP ID set STP ID <X rward(out_if)(route STPstate{Discarding {drop, forward } mode(TAG,UNTAG) STPstate{Discard port) } Learning ,Forwarding op, forward }) Forwarding), arning set STP ID <0> learn_MAC(br_port) drop efault: Go to FDB table STP state (Discarding t STP state (Discard drop Metadata STP_ID=X Metadata STP state=forwarding Next hop group ress L3 interface table ACL +trap table match: match (LPM) ingress_vrf,dst_ip(prefix) ERIF match: ERIF egress_rif,NH_DstIP next hop match: action: action: --next hop group,hash_val oridge_port,vlan} ingres. action: set_vrf(VRF) default: action : action: ingress_rif action : .1Q bridge flow {trap,copy_to_cpu,forward,drop} Egress RIF ridge_port} {Set_next_hop_id, check_ttl(), {set_egrress_rif(ERIF), {trap,copy_to_cpu,forward,drop} {Set_packet.SMAC, {Set_next_hop_id,go to table net_hop} {Set_packet.DMAC } set_nh_dstippacket.dst_ip} check_mtu(), {Set_next_hop_group_id, go to table next hop group} Set_packet_VID}//set l2 headr go to table net_hop} set_ingress_rif(IRIF) default: Drop {set_nh_dstip(NH_IP), default: default: trap_to_cpu set_egrress_rif(ERIF)} drop drop drop default: default: drop drop drop





Metadata

Ingress VRF

match:

action:

default:

Metadata

Ingress_vrf=VRF

drop

ingress_rif

set_vrf(VRF)

Ingress_rif=IRIF

─vbridge

match:

efault:

ACL table

Drop

br_port

set_vlan(vlan)

set tag mode ()

Metadata

TAG_mode=TAG

Tunnel mapper-vxlan

match :BR_ID

set_vni(VNI)

match (LPM) ingress_vrf,dst_ip(prefix)

{Set_next_hop_id,go to table net_hop}

go to table next hop group}

{trap,copy_to_cpu,forward,drop}

{Set_next_hop_group_id,

action:

Router

action: ---

drop

table

default:

Drop

gress .1D Bridge

Metadata

VNI=VNI

Metadata Out_if=Y

Out_if_type=tunnel port

Src_ip=tunnel.encap.src_ip

bridge_port=tunnel.underlay_if

Router_rif=tunnel.encap.oerlay_if

Tunnel type- vxlan

Dst_ip=dst_id

Tunnel table

match:

param)}

default: Drop

Metadata

Next hop =NH

tunnel_id

{set_encpap_param(tunnel.encap

Next hop group

next hop group,hash_val

go to table net_hop}

Metadata

Next hop group=GR

match:

action :

drop

{Set_next_hop_id,

{go to tunnel mapper-vxlan}

ACL table(egress port)

Next hop

match:

action :

default:

drop

next hop

{set_egrress_rif(ERIF),

{set_nh_dstip(NH_IP),

set_nh_dstippacket.dst_ip}

set_egrress_rif(ERIF)}

table

Metadata Metadata Metadata IN port =N(ingress phy Is LAG =yes If(is_tagged) VID=PVID LAG ID =M IN I2_if=N(ingress I2 IN I2_if=M else interface) VID=packet.VID Is_tagged=yes/no ACL table match: I2_if,is_tagged in port (set PVID (set is LAG=ye Port <M> set LAG id<M> {drop, forward }) lefault: drop set I2_if<M>) default : set is LAG=no match: packet.dst MAC,BR ID ction: forward(out_if)} forward(tunnel_id,dst_ip)} set out_it_type(LAG/port) default: 60 unknown unicast table nknown unicast STP= Forwarding natch: gress vBridge STP BR_ID able { Egress LAG flow match: orward(out_if_list+(ou_if,dst_ip)*N) bridge_port default: drop earning ,Forwarding} default: Metadata Out_if=Y1 et STP state (Discarding) Out_if_type=port Out_if=Y2 Out_if_type=LAG Metadata Out_if_type=tunn RIF<n> Metadata

Ingress port flow

ngress I2 interface type table

(set_1Q_interface_ object(BR_port
 (set_1D_interface_ object(BR_port
 (set_L3_interface_ object(RIF))

match : {I2_if,vlan}

default:

UNI

Metadata

I2_if type=router

oacket.dst MAC,BR II

Go to FDB table

to Ingress L3

erface table default:

action:

Metadata

.1D bridge

flow

.1Q bridge

flow

Router

Metadata

BR_ID=X

match:

{bridge port}

set BR_ID<X>

gress vBridge STP

match:

action:

default:

packet.src MAC,BR ID

learn_MAC(br_port)

Metadata

state=forwarding

STP

action :

bridge_port

tSTPstate{Discarding,

Learning ,Forwarding)

set STP state (Discarding)

Ingress_bridge_port =N

