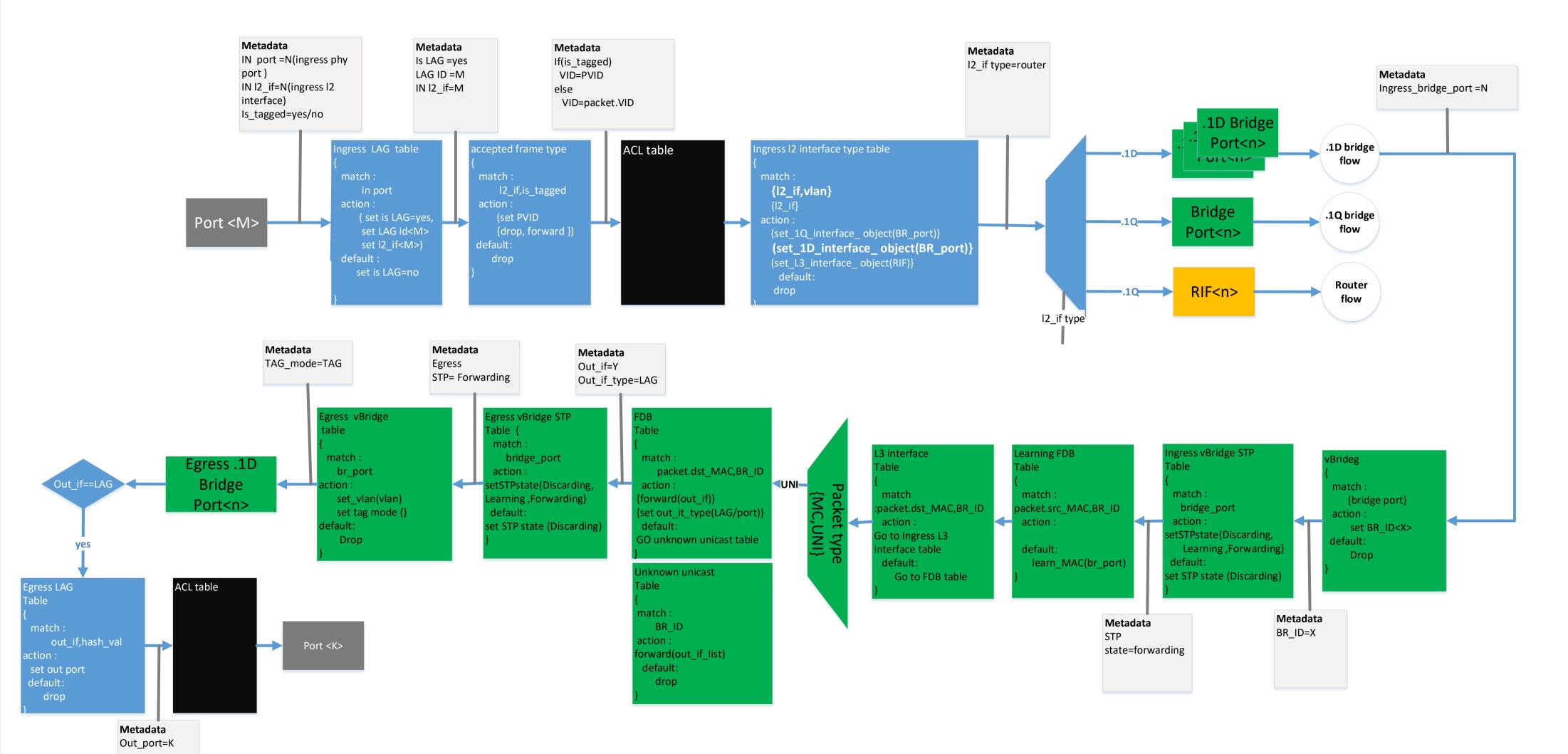
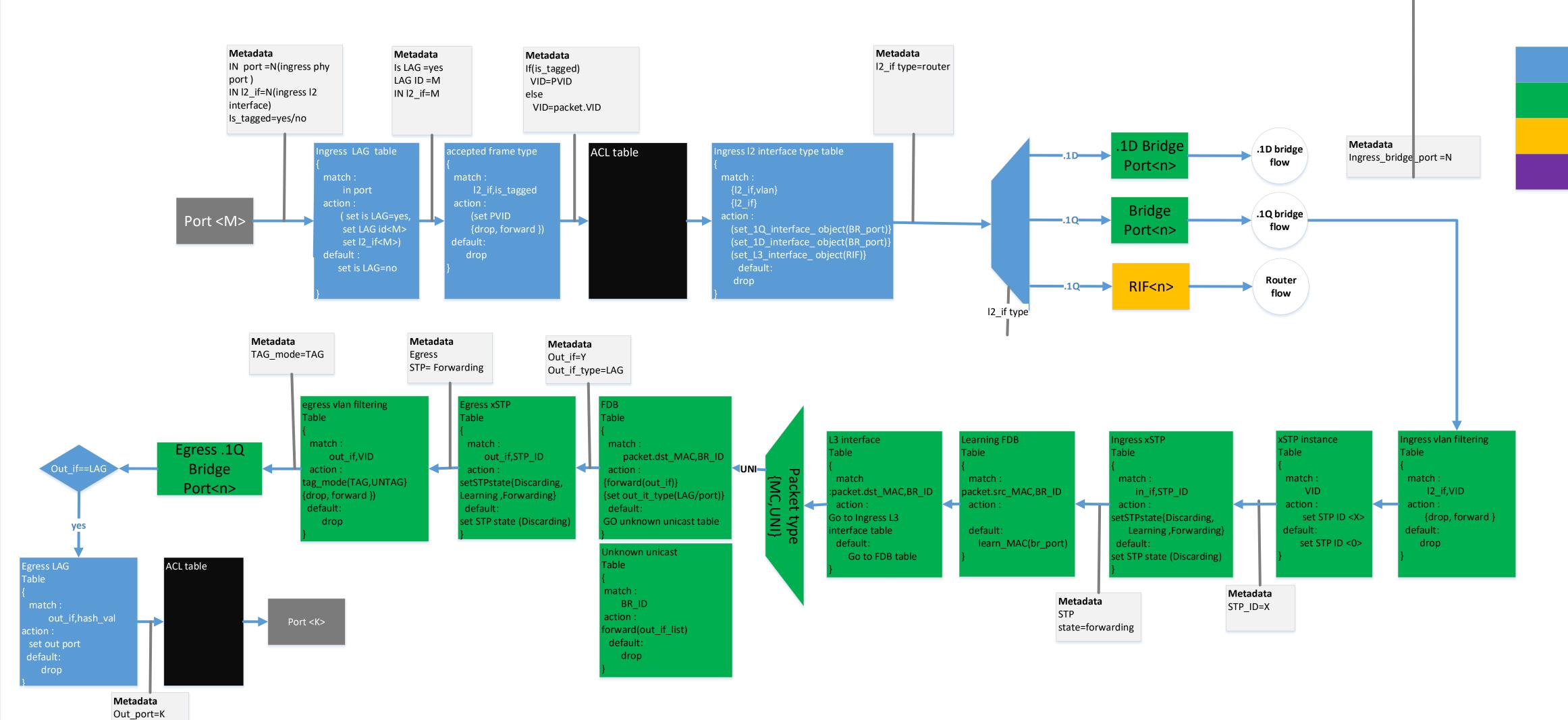
Ingress port flow

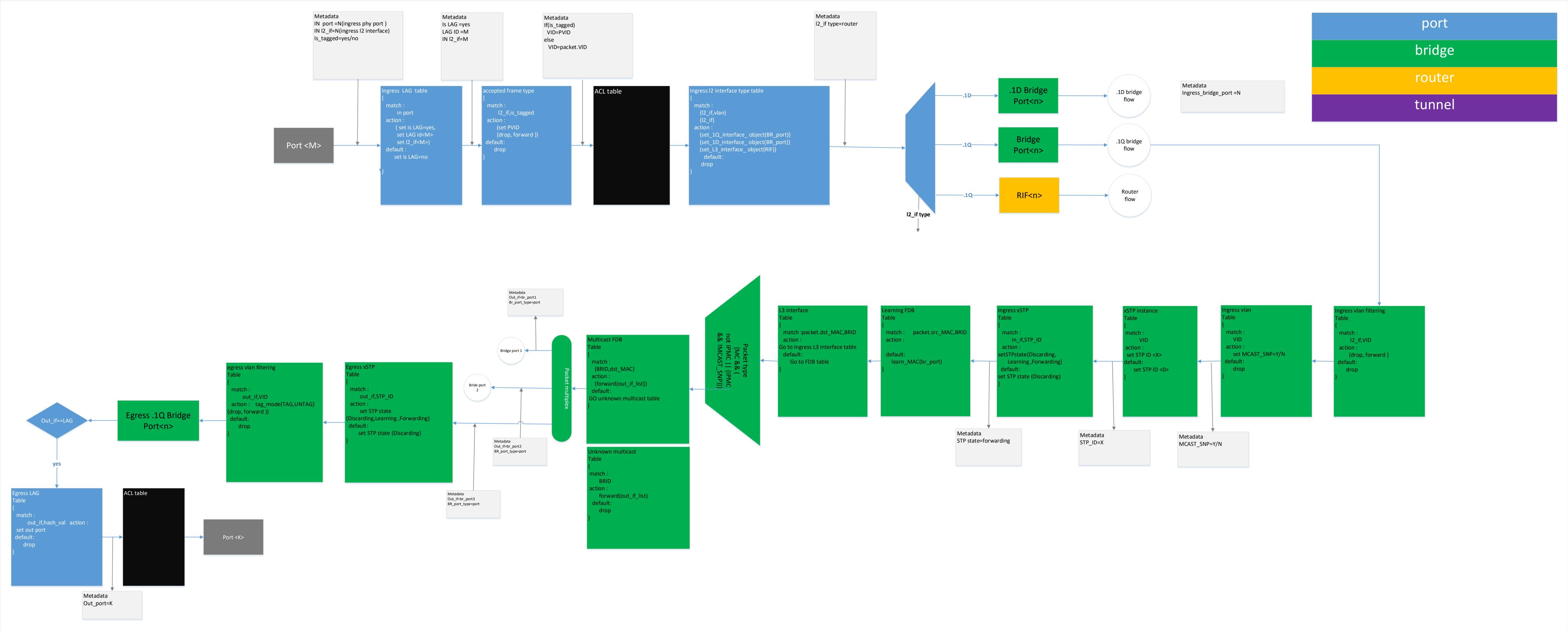


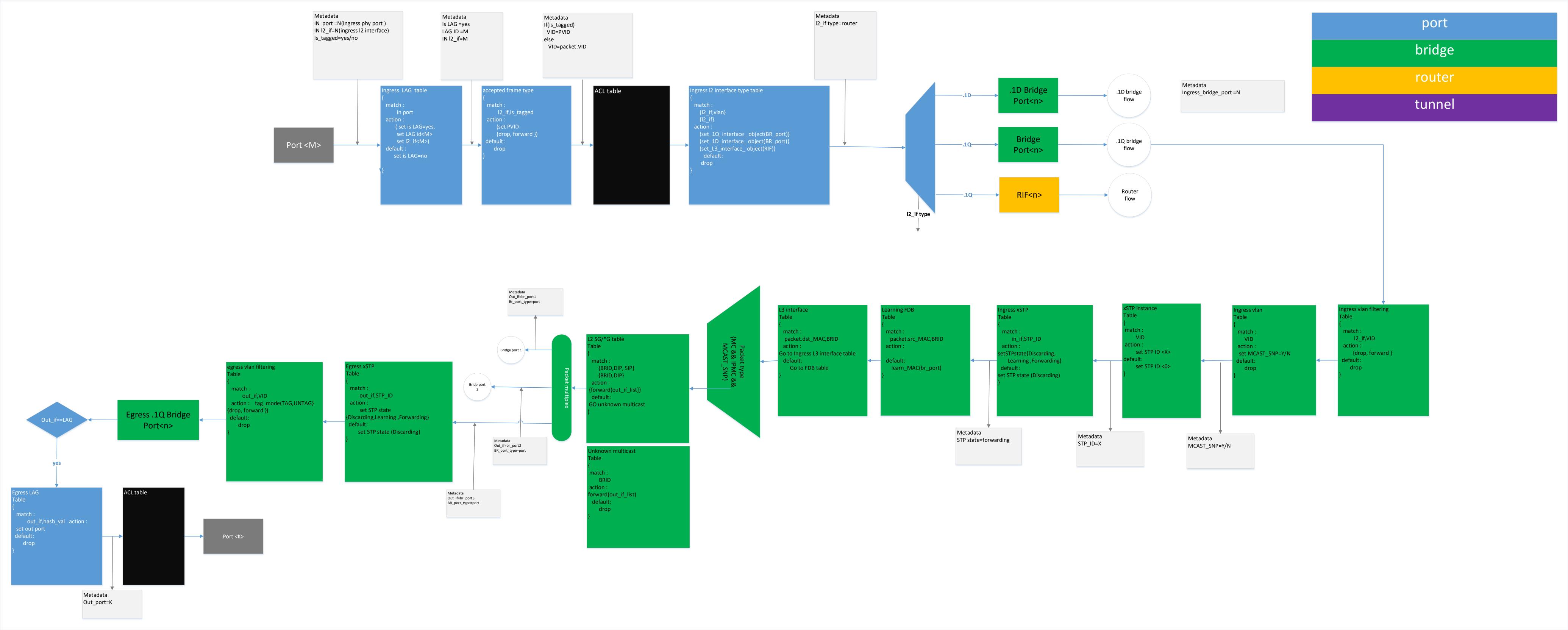
port
bridge
router
tunnel

Ingress port flow



port
bridge
router
tunnel

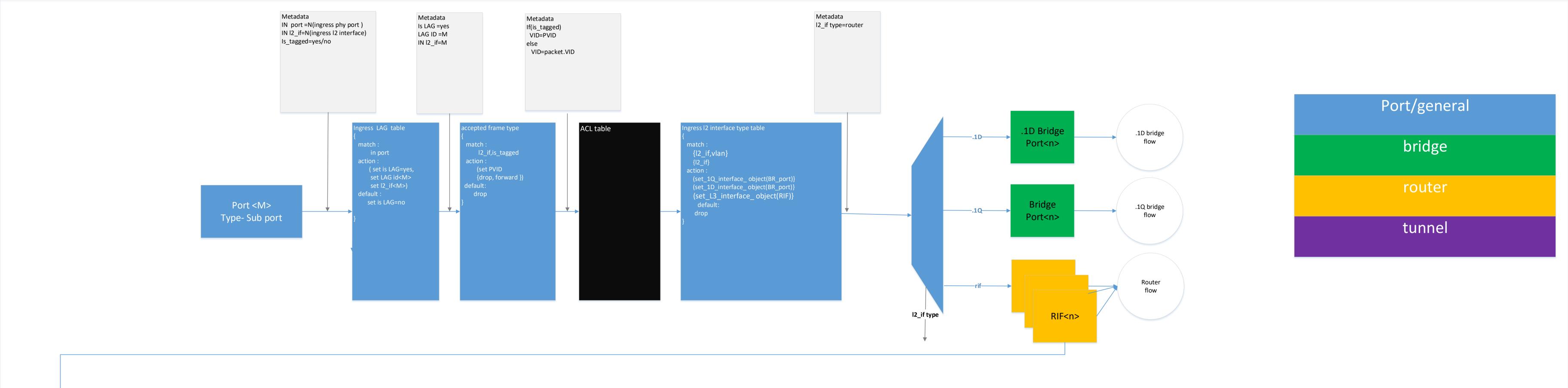


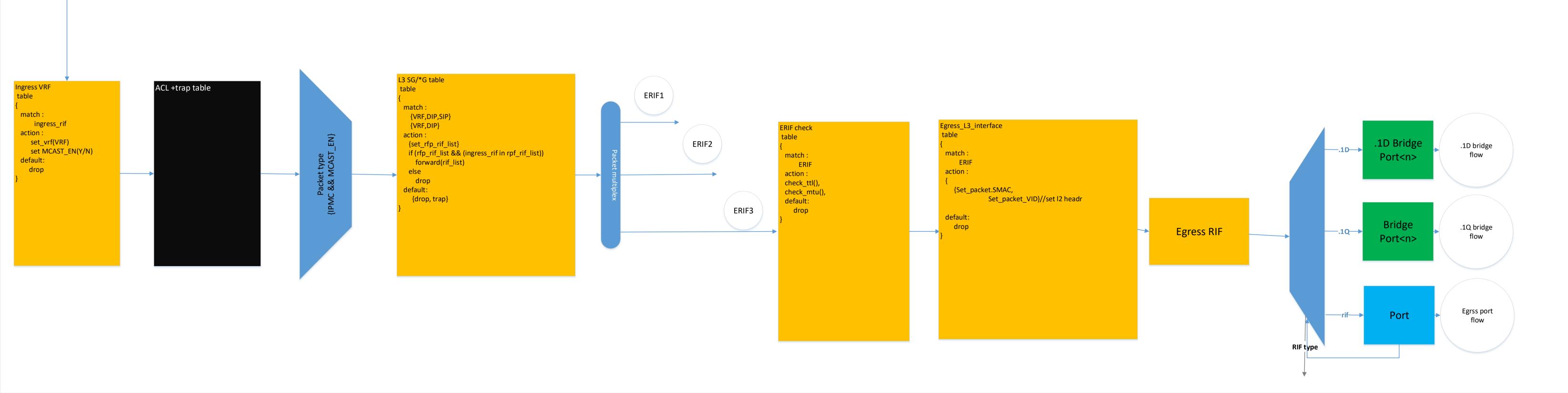


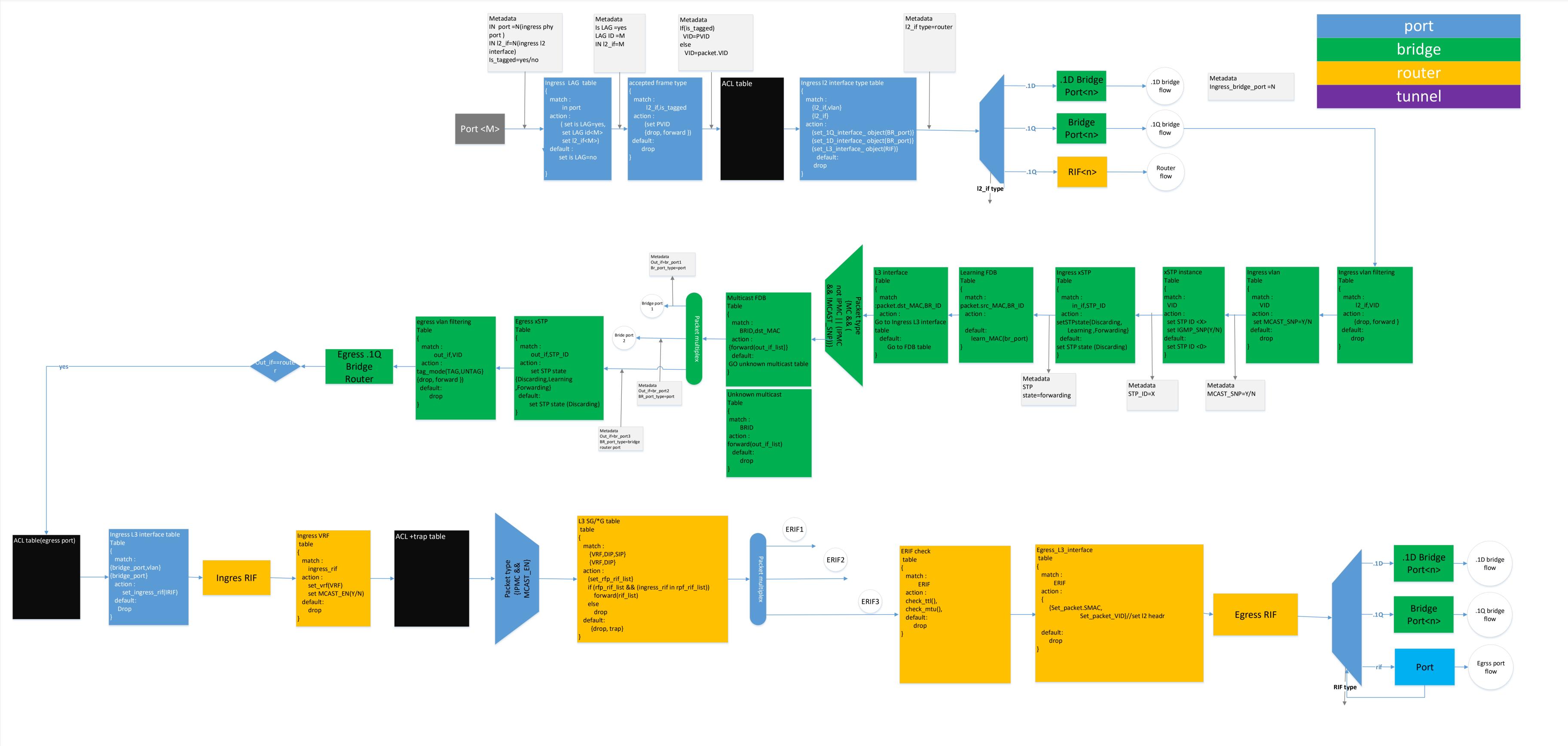
Ingress port flow bridge router Metadata Metadata I2_if type=router Metadata IN port =N(ingress phy Is LAG =yes If(is_tagged) VID=PVID tunnel LAG ID =M IN I2_if=N(ingress I2 Ingress_bridge_port =N IN I2_if=M else interface) VID=packet.VID Is_tagged=yes/no .1D bridge flow ACL table epted frame type ress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

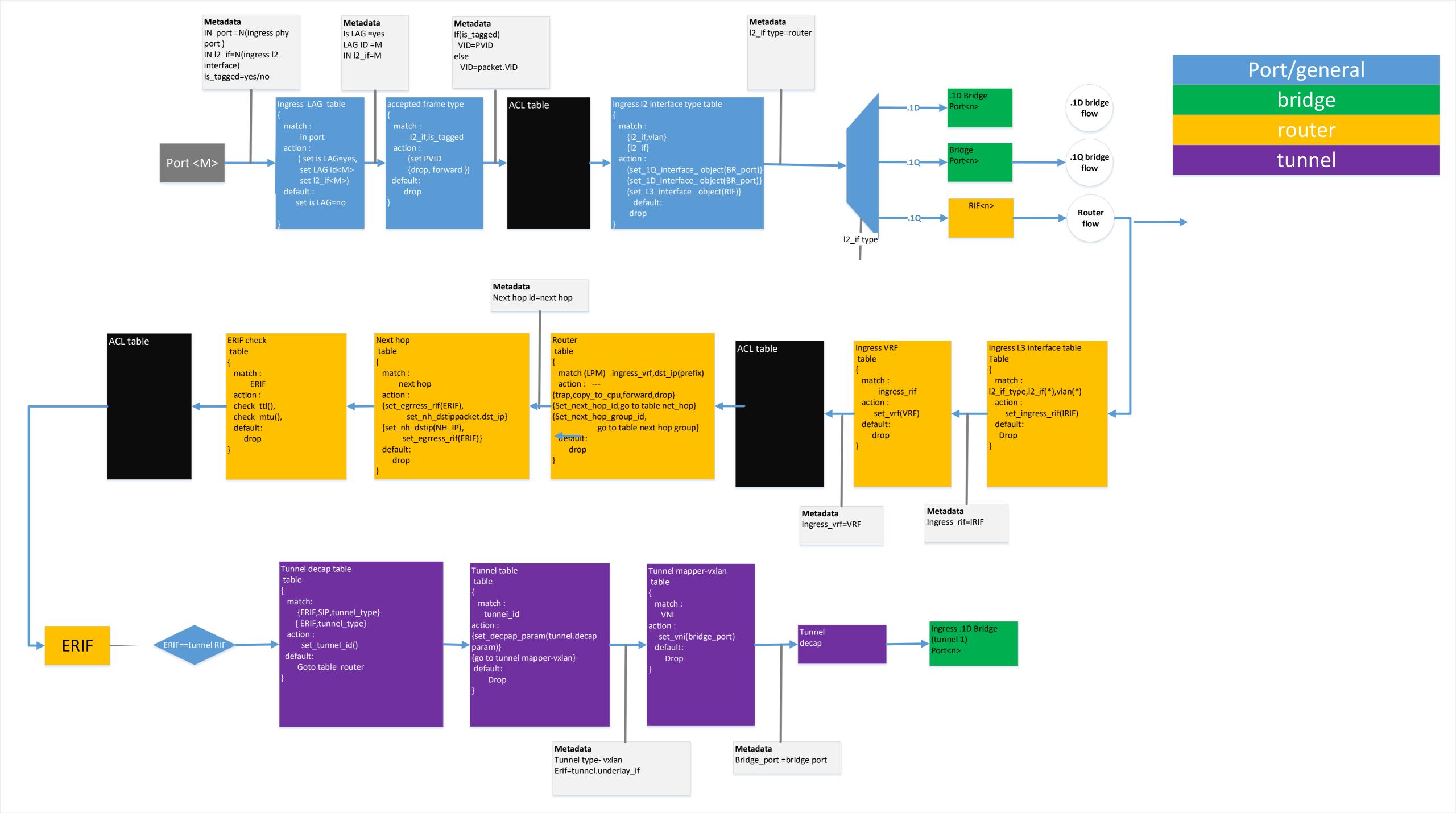
Port/general

Port/general **Router PBH flow** bridge Metadata router IN port =N(ingress phy port) Metadata Metadata Metadata Metadata IN I2_if=N(ingress I2 interface) If (acl_ecmp_fields) I2_if type=router Is LAG =yes If(is_tagged) VID=PVID Is_tagged=yes/no tunnel ecmp_hash = hash(acl_ecmp_fields) LAG ID =M ecmp_hash = hash(global_ecmp_fields) If (acl_lag_fields) IN I2_if=M else Ingress_bridge_port =N lag_hash = hash(global_lag_fields) lag_hash = hash(ACL_lag_fields) VID=packet.VID .1D bridge ACL table ress LAG table pted frame type s I2 interface type table in port l2_if,is_tagge .1Q bridge (set is LAG= (set PVID set_1Q_interface_ object(BR_poi set_1D_interface_ object(BR_poi {drop, forward } set I2_if<M> default : set is LAG=nc (set_L3_interface_ object(RIF)) default: I2_if type **Metadata** TAG_mode=TAG Metadata Egress STP= Forwarding in_if,STP_ID l2_if,VID out_if,VID acket.dst_MAC,BR_II acket.src MAC,BR ID out_if,STP_ID STPstate{Discarding set STP ID <X {drop, forward } mode(TAG,UNTAG) Learning ,Forwarding port) } op, forward }) Forwarding), arning set STP ID <0> drop learn_MAC(br_port) efault: Go to FDB table STP state (Discarding) drop t STP state (Discardi Metadata Metadata Metadata STP_ID=X If (acl_ecmp_fields) STP ecmp_hash = hash(acl_ecmp_fields) state=forwarding If (acl_lag_fields) lag_hash = hash(ACL_lag_fields) Egress_L3_interface ERIF check Next hop group ess L3 interface table ACL +trap table Ingress VRF table match (LPM) ingress_vrf,dst_ip(prefix) ERIF match: ERIF egress_rif,NH_DstIP next hop match: action: action: --next hop group, oridge_port,vlan} action: action : ingress_rif .1Q bridge flow {trap,copy_to_cpu,forward,drop} Egress RIF ridge_port} {set_egrress_rif(ERIF), check_ttl(), {trap,copy_to_cpu,forward,drop} action : {Set_next_hop_id,go to table net_hop} {Set_packet.SMAC, set_vrf(VRF) default: set_nh_dstippacket.dst_ip} check_mtu(), {Set_packet.DMAC } {Set_next_hop_id, Set_packet_VID}//set I2 headr {Set_next_hop_group_id, set_ingress_rif(IRIF) default: Drop default: {set_nh_dstip(NH_IP), default: go to table next hop group} go to table net_hop} set_egrress_rif(ERIF)} trap_to_cpu drop drop default: default: default: drop drop drop drop

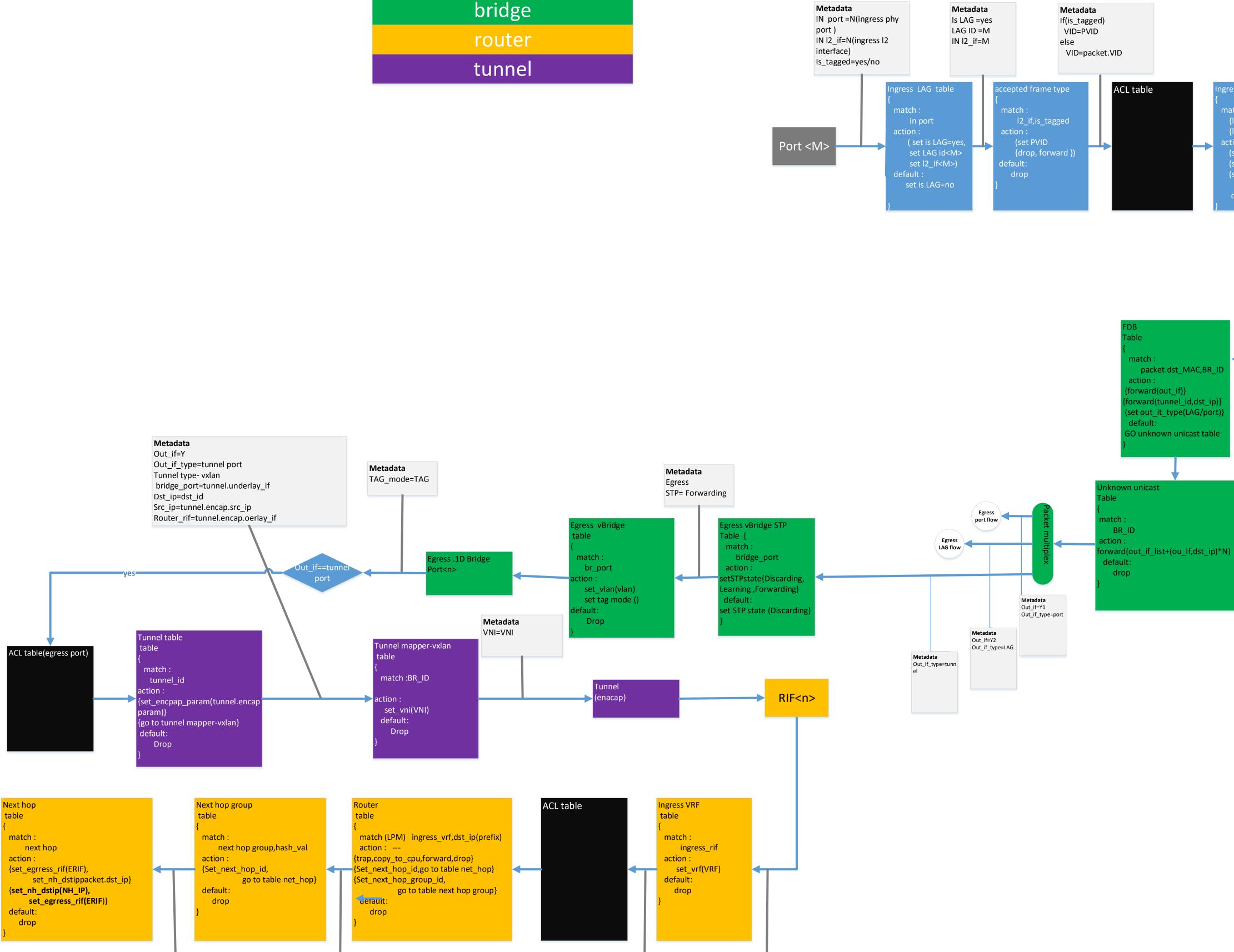












Metadata

Ingress_rif=IRIF

─vbridge

Metadata

Ingress_vrf=VRF

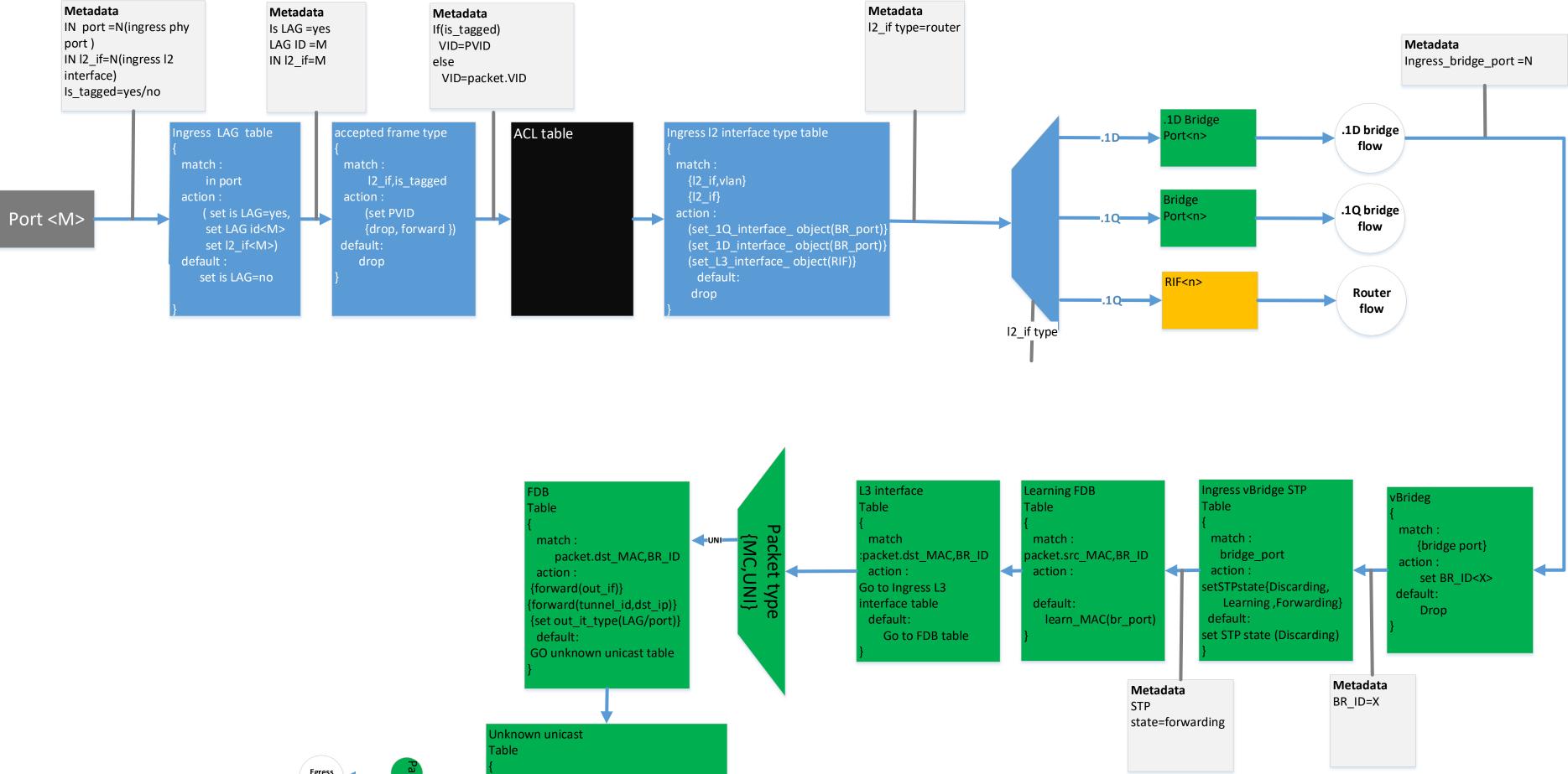
Metadata

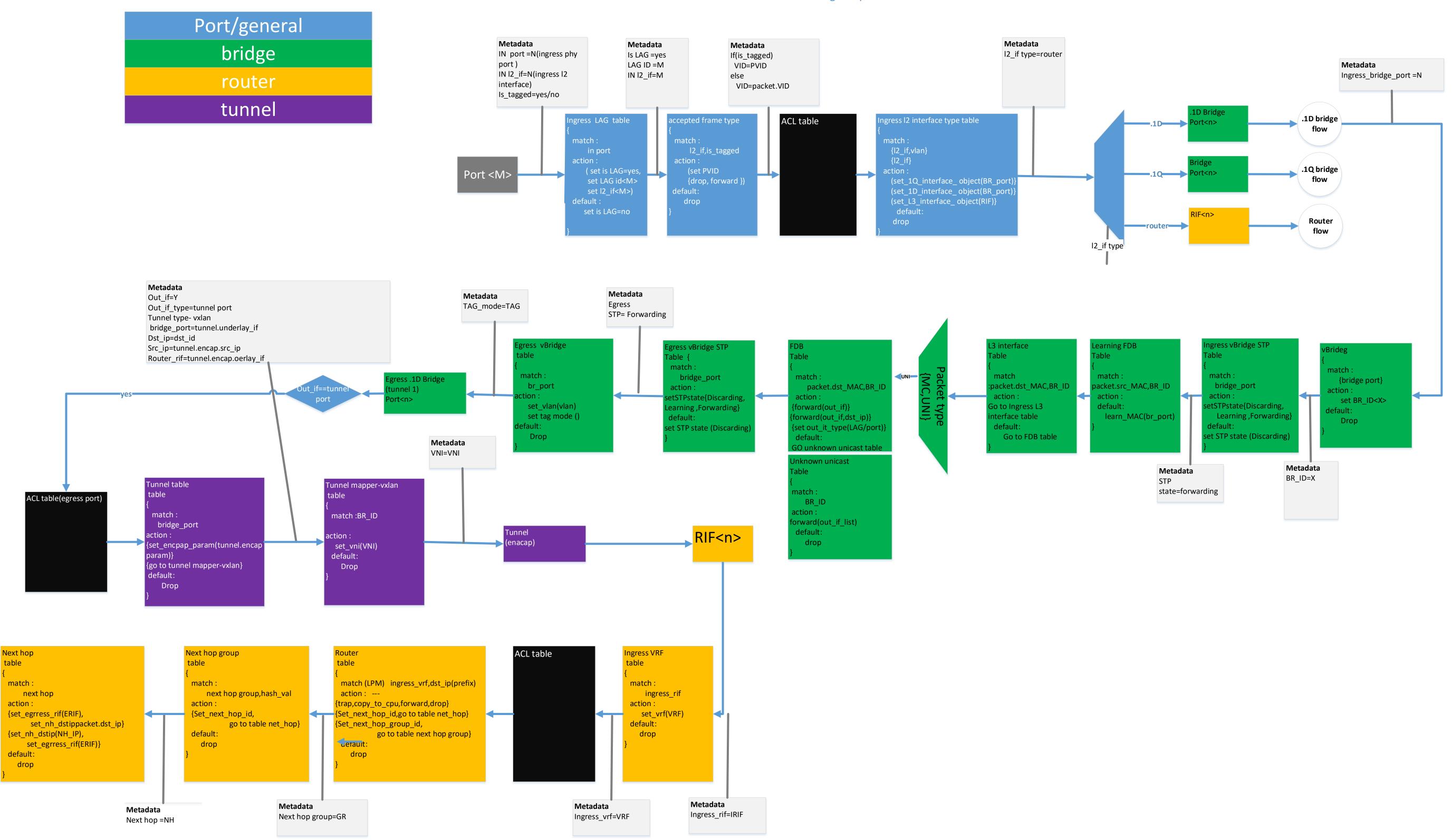
Next hop =NH

Metadata

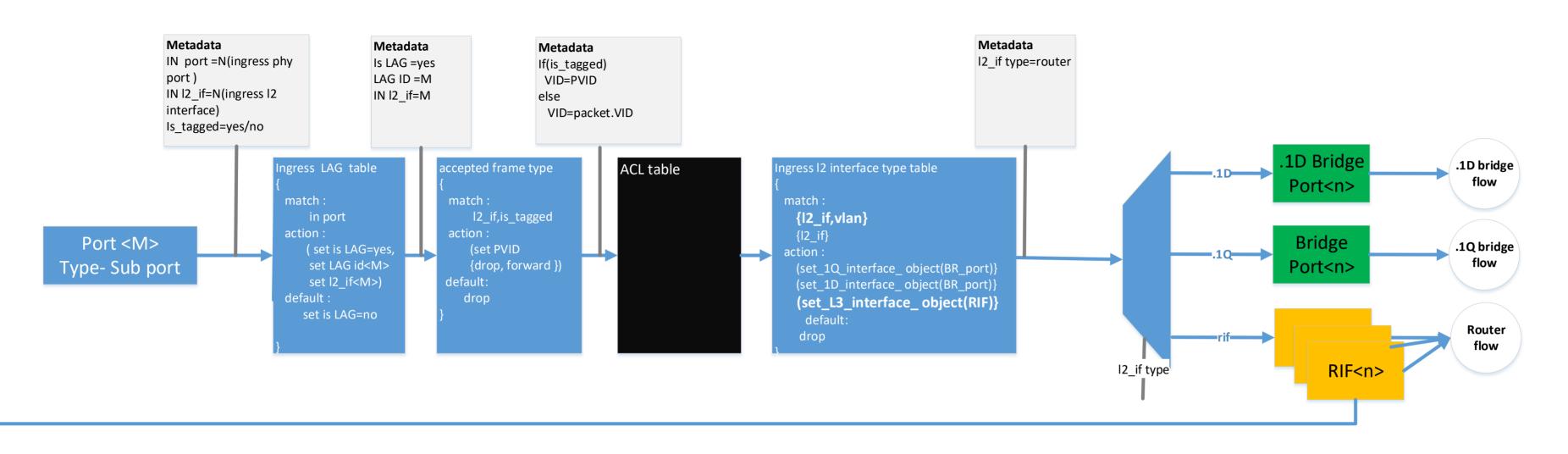
Next hop group=GR

Ingress port flow





Ingress port flow



Port/general bridge router tunnel

