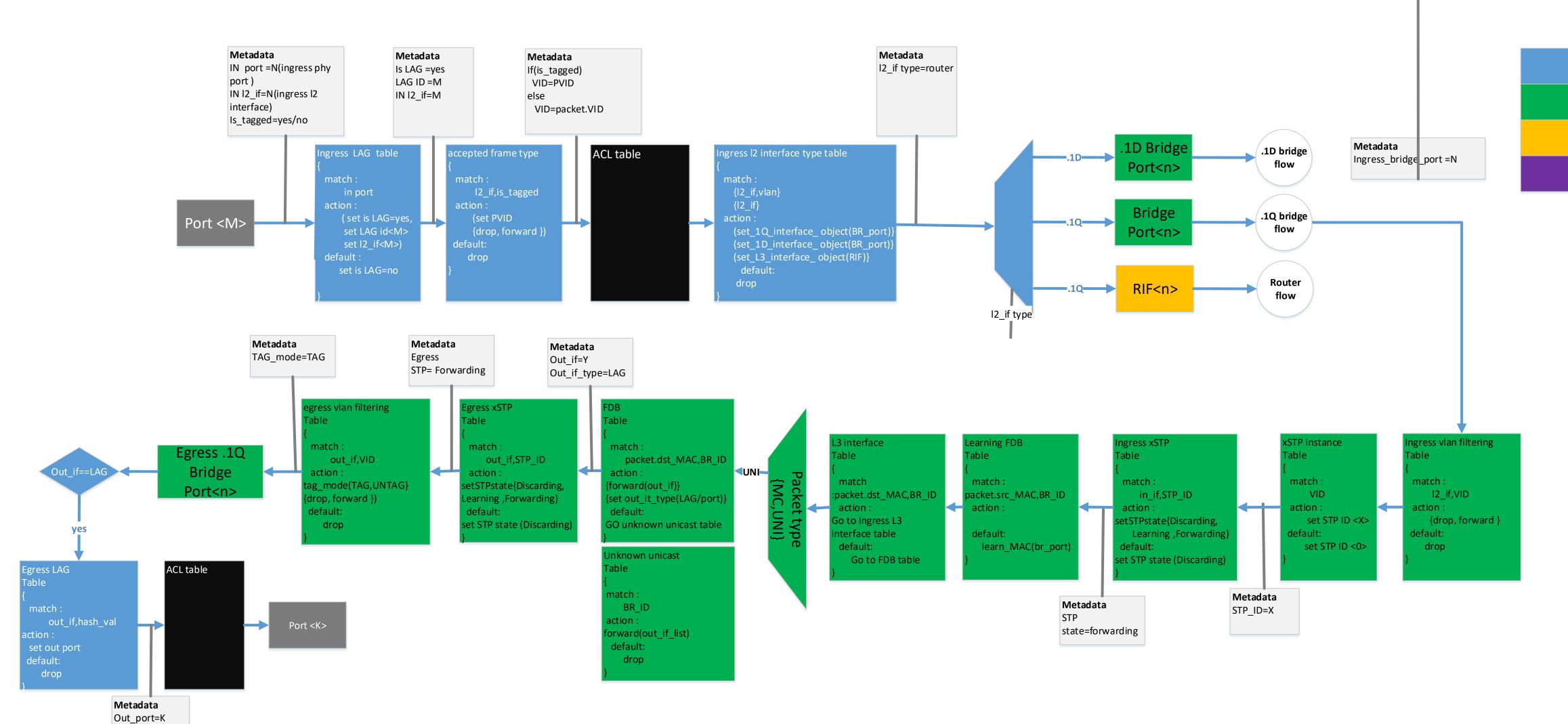
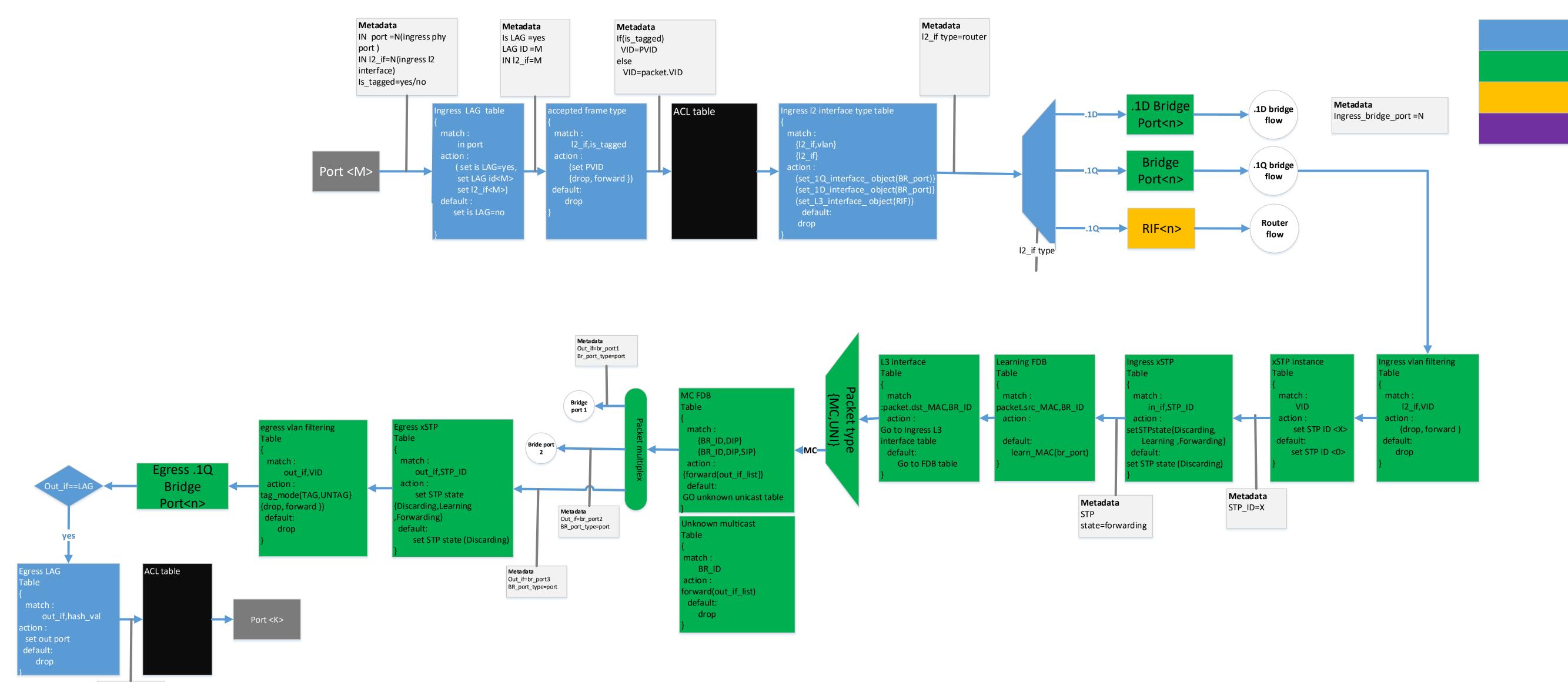


port
bridge
router
tunnel



port
bridge
router
tunnel



**Metadata**Out\_port=K

port

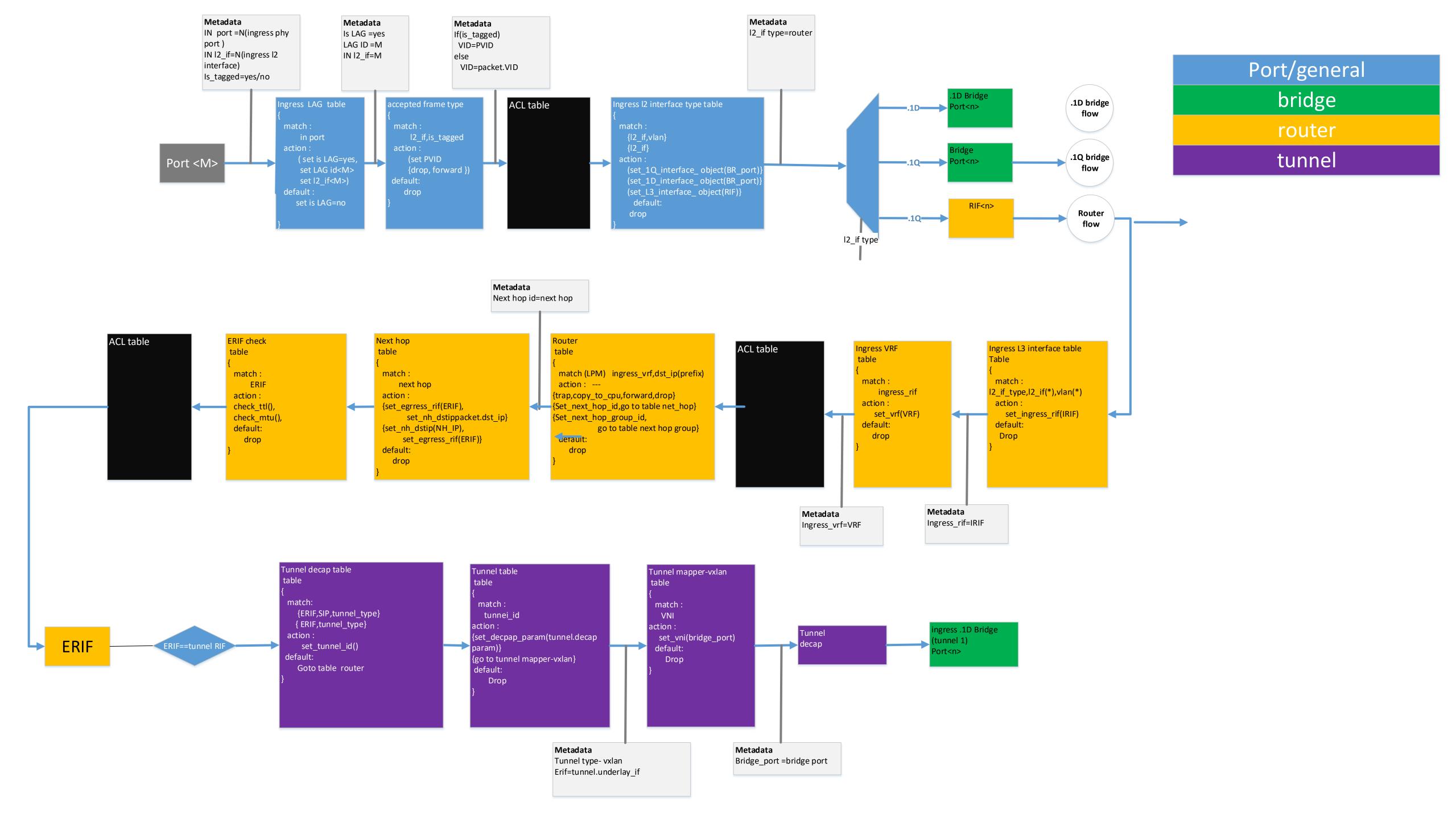
bridge

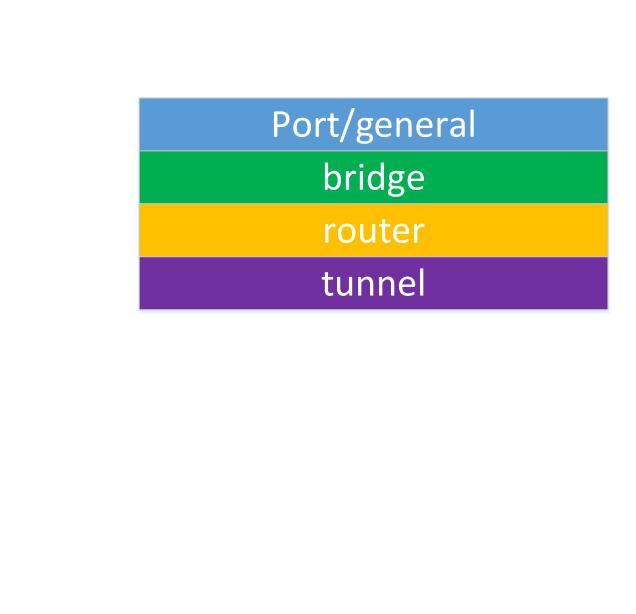
router

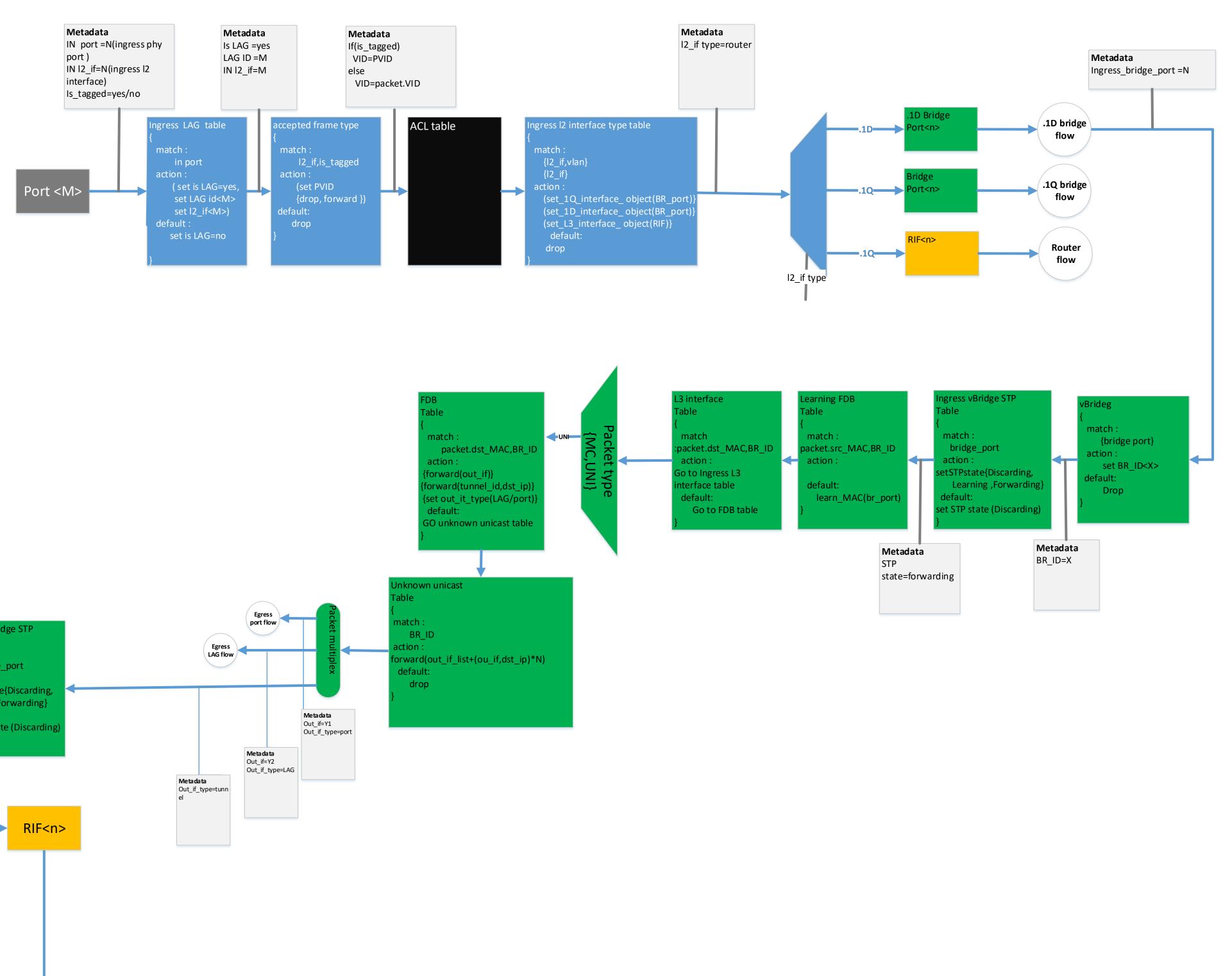
tunnel

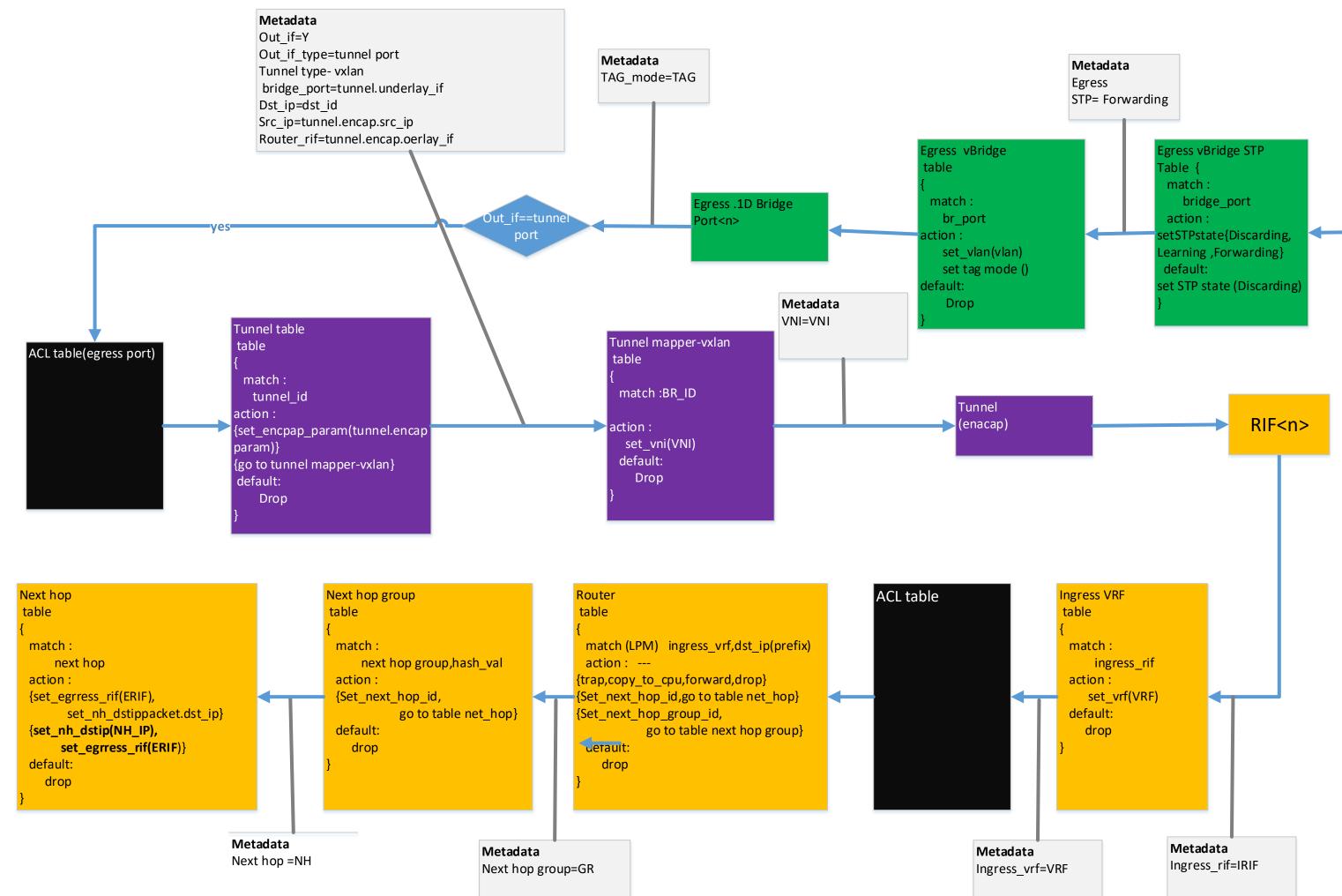
#### Port/general Ingress port flow bridge router Metadata Metadata I2\_if type=router Metadata Metadata IN port =N(ingress phy Is LAG =yes If(is\_tagged) VID=PVID tunnel LAG ID =M Metadata IN I2\_if=N(ingress I2 Ingress\_bridge\_port =N IN I2\_if=M else interface) VID=packet.VID Is\_tagged=yes/no .1D bridge flow ACL table epted frame type ess l2 interface type table gress LAG table l2\_if,is\_tagged {I2\_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\_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 (LPM) ingress\_vrf,dst\_ip(prefix) match : 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: set\_egrress\_rif(ERIF)} drop trap\_to\_cpu drop drop default: default: drop drop

drop

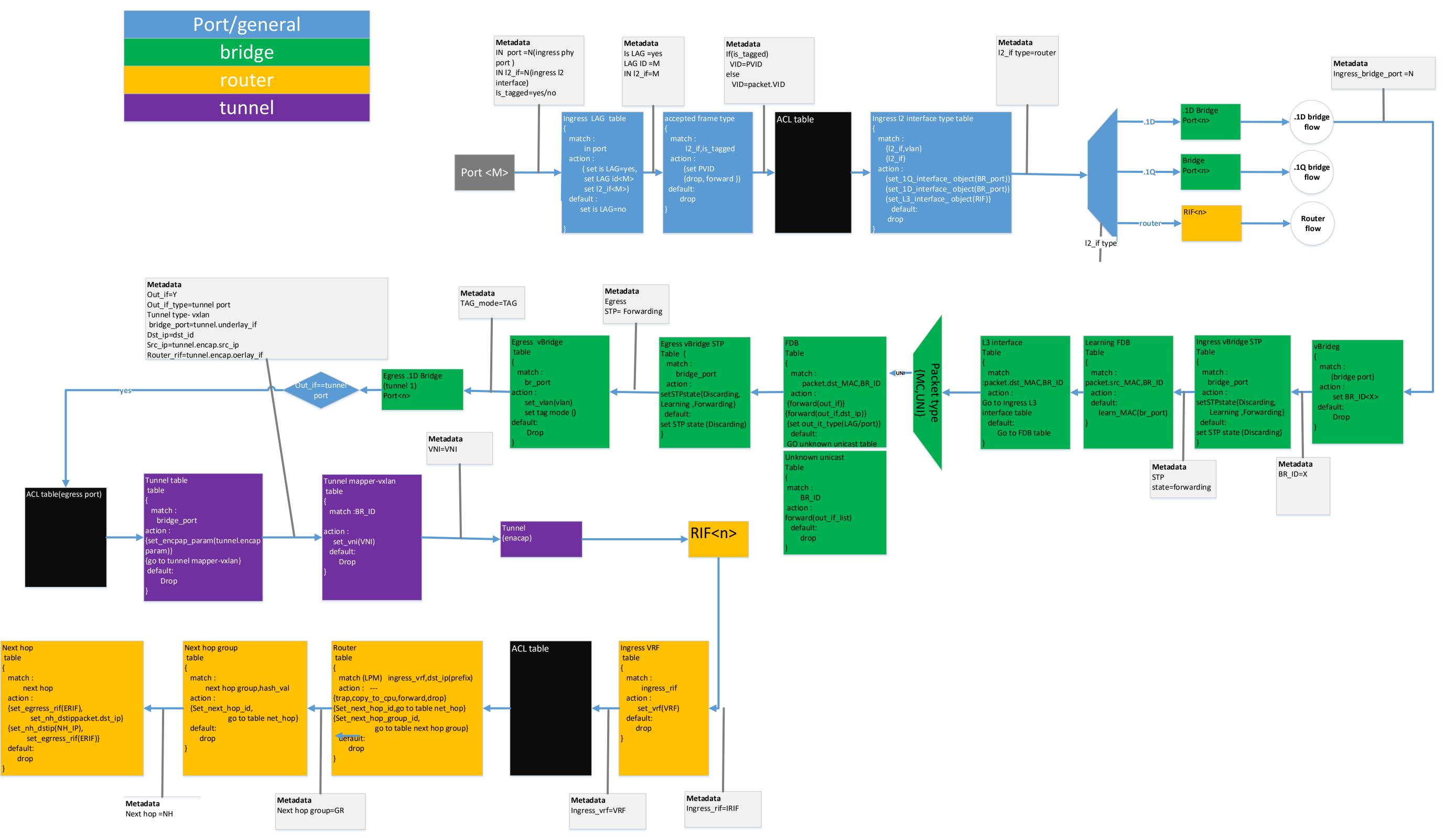


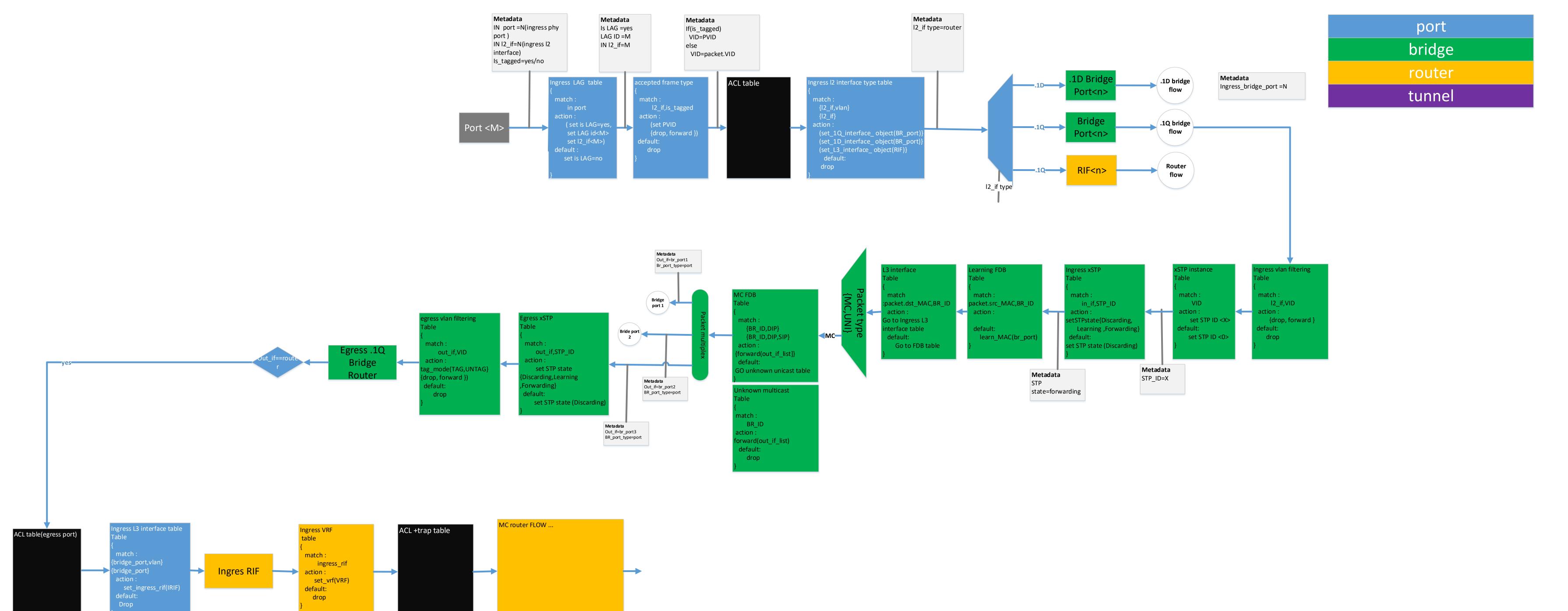


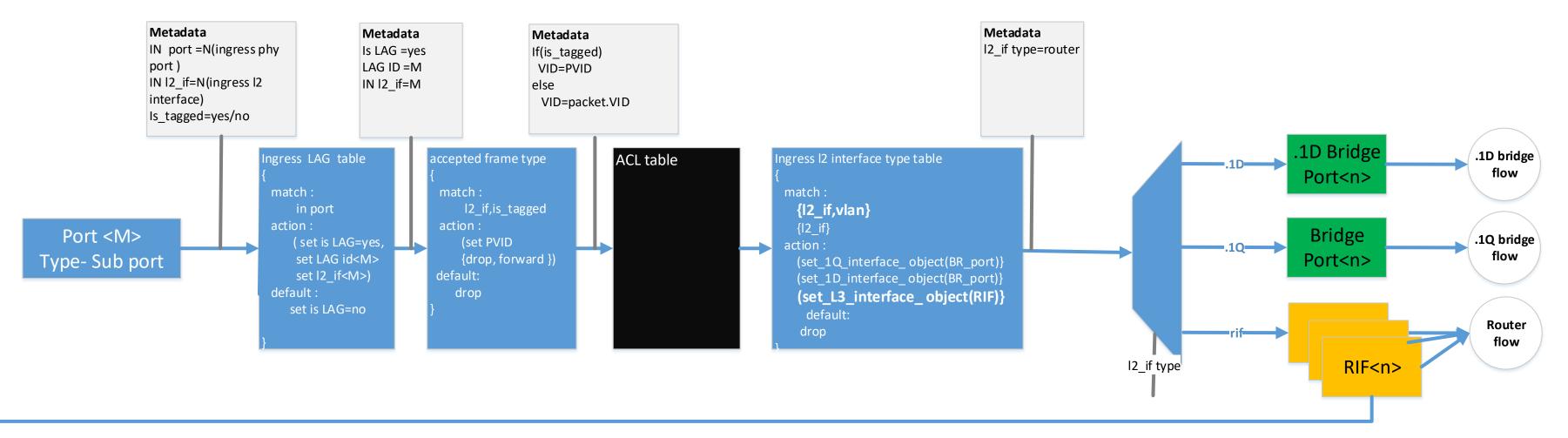




**─**vbridge







Port/general bridge router tunnel

