

# Explain Packet Drop Faults in ACI

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## Introduction

This document describes each Fault type, and the procedure when you see this fault. During Normal Operation of a Cisco Application Centric Infrastructure (ACI) Fabric, the administrator can see Faults for certain types of Packet Drops.

## Managed Objects

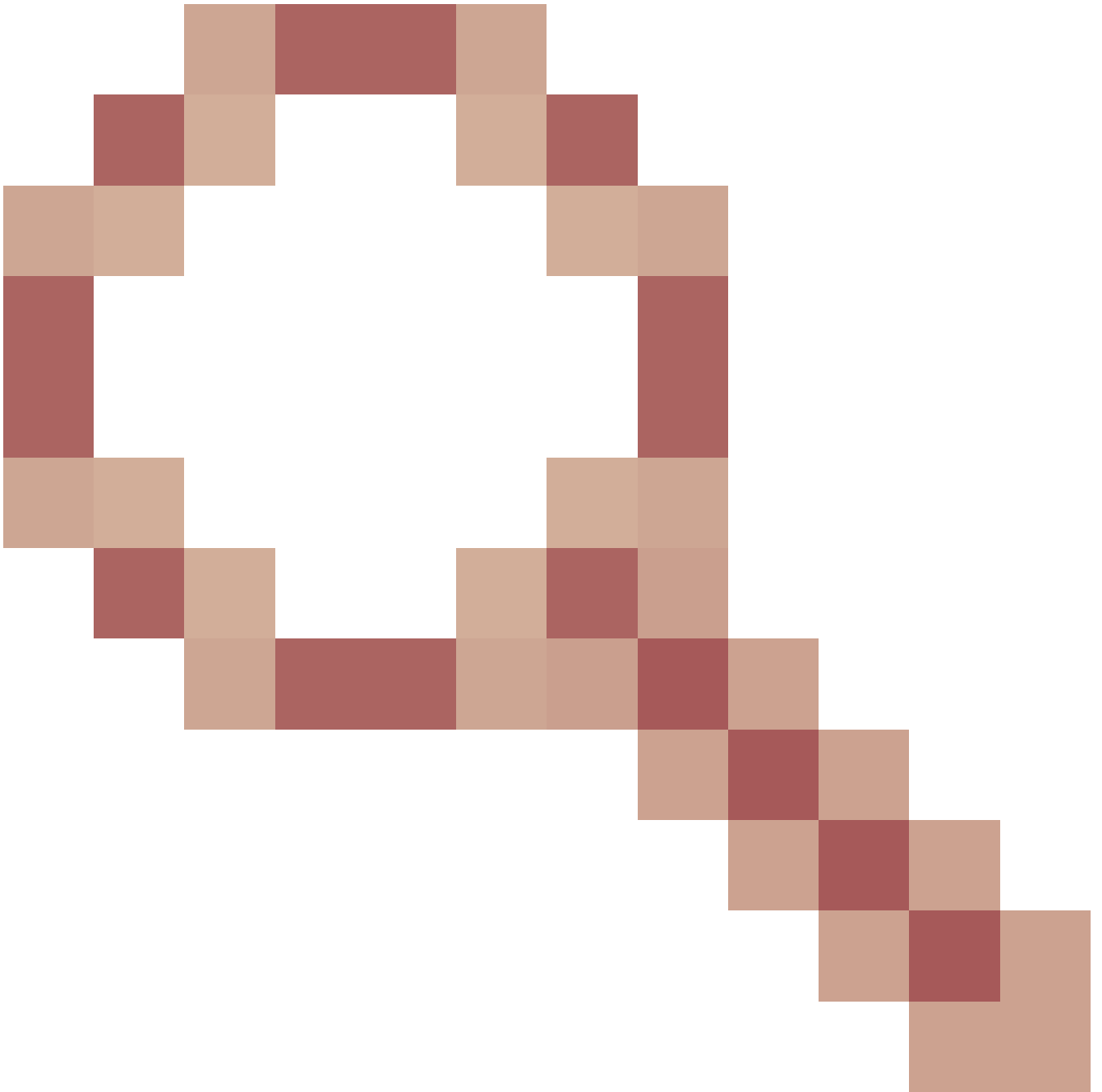
In Cisco ACI, all faults are raised under Managed Objects (MO). For example, a fault F11245 - ingress drop packets rate(l2IngrPktsAg15min:dropRate) is regarding the parameter dropRate in MO l2IngrPktsAg15min.

This section introduces some of the example Managed Object (MO) related to drop packet faults.

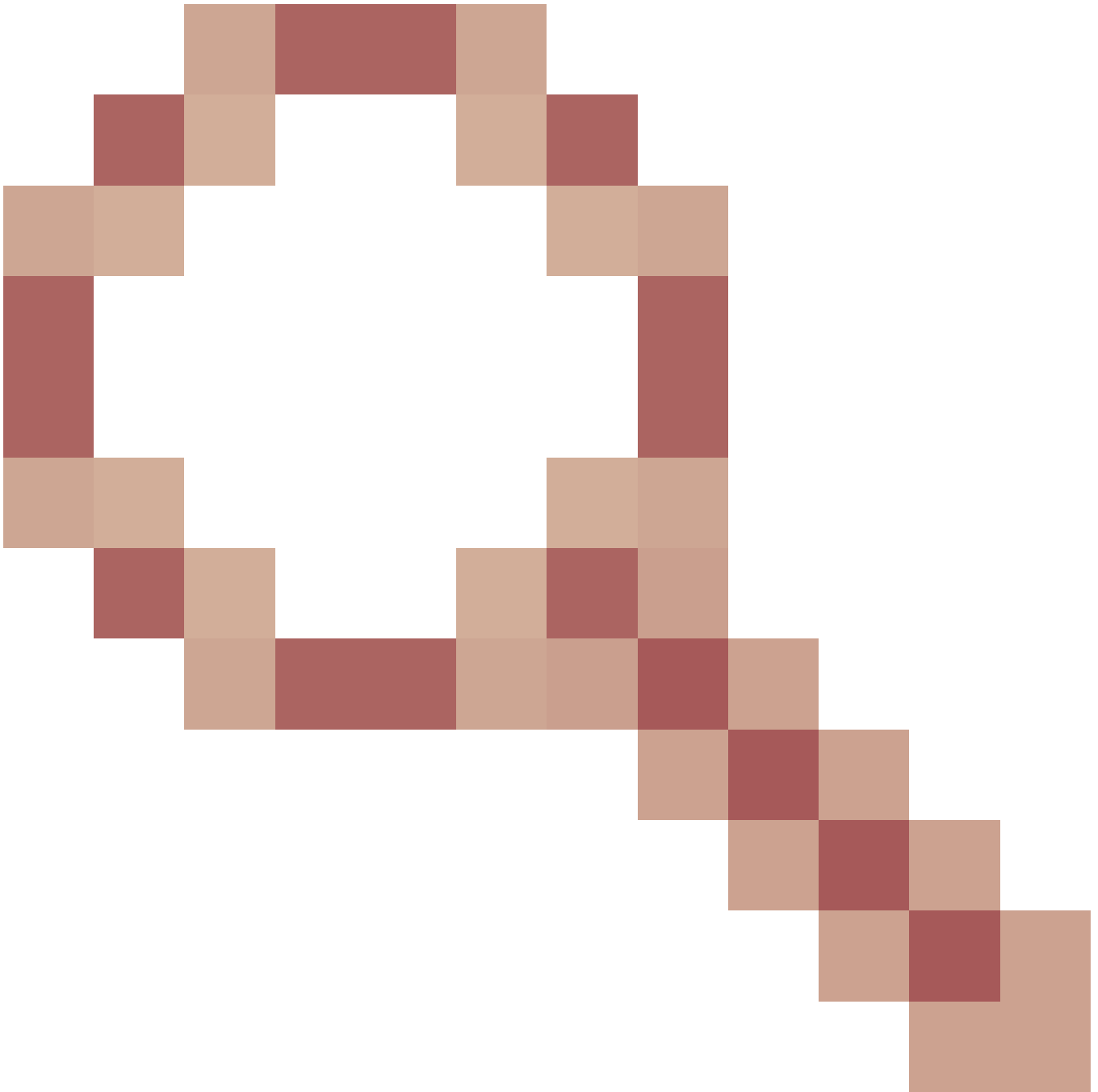
	Example	Description	Sample Parameters	Sample MO Against which Faults are Raised
l2IngrPkts	l2IngrPkts5min	This represents ingress packet statistics per VLAN during each period.	dropRate	vlanCktEp (VLAN)

	l2IngrPkts15min l2IngrPkts1h and so on.		floodRate multicastRate unicastRate	
l2IngrPktsAg	l2IngrPktsAg15min l2IngrPktsAg1h l2IngrPktsAg1d and so on.	This represents ingress packet statistics per EPG, BD, VRF, and so on. For example, EPG stats represents aggregation of VLAN stats which belong to the EPG.	dropRate floodRate multicastRate unicastRate	fvAEPg (EPG) fvAp (Application Profile) fvBD (BD) l3extOut (L3OUT)
eqptIngrDropPkts	eqptIngrDropPkts15min eqptIngrDropPkts1h eqptIngrDropPkts1d and so on.	This represents ingress drop packet statistics per interface during each period.	*1 forwardingRate *1 errorRate *1 bufferRate	l1PhysIf (physical port) pcAggrIf (port-channel)

\*1 : These counters in eqptIngrDropPkts can be falsely raised due to an ASIC limitation in several Nexus 9000 Platforms, because SUP\_REDIRECT packets are being logged as forward drops. See also Cisco bug ID [CSCvo68407](#)



and Cisco bug ID [CSCvn72699](#)



for further details and fixed versions.

## Hardware Drop Counter Types

On Nexus 9000 switches running in ACI Mode, there are 3 major hardware counters for ingress interface drop reason on the ASIC.

A dropRate in l2IngrPkts, l2IngrPktsAg includes those counters. Three parameters (forwardingRate, errorRate, bufferRate) in the table for eqptIngrDropPkts represent each three interface counters.

### Forward

Forward drops are packets that are dropped on the LookUp block (LU) of the ASIC. In LU block, a packet forwarding decision is made based on the packet header information. If the decision is to drop the packet, Forward Drop is counted. There are a variety of reasons this can happen, but let us talk about the major ones:

## **SECURITY\_GROUP\_DENY**

A drop because of missing contracts to allow the communication.

When a packet enters the fabric, the switch looks at the source and destination EPG to see if there is a contract that allows this communication. If the source and destination are in different EPG's, and there is no contract that allows this packet type between them, the switch drops the packet and labels it as SECURITY\_GROUP\_DENY. This increments the Forward Drop counter.

## **VLAN\_XLATE\_MISS**

A drop because of inappropriate VLAN.

When a packet enters the fabric, the switch looks at the packet to determine if the configuration on the port allows this packet. For example, a frame enters the fabric with an 802.1Q tag of 10. If the switch has VLAN 10 on the port, it inspects the contents and makes a forwarding decision based on the Destination MAC. However, if VLAN 10 is not on the port, it drops it and labels it as a VLAN\_XLATE\_MISS. This increments the Forward Drop counter.

The reason for XLATE or Translate is because in ACI, the leaf switch takes a frame with an 802.1Q encap and translates it to a new VLAN that is used for VXLAN and other normalization inside of the fabric. If the frame comes in with a VLAN not deployed, the translation fails.

## **ACL\_DROP**

A drop because of sup-tcam.

sup-tcam in ACI switches contains special rules to be applied on top of the normal L2/L3 forwarding decision. Rules in sup-tcam are built-in and not user configurable. The objective of sup-tcam rules is mainly to handle some exceptions or some of control plane traffic and not intended to be checked or monitored by users. When packet is hitting sup-tcam rules and the rule is to drop the packet, the dropped packet is counted as ACL\_DROP and it increments the Forward Drop counter. When this occurs, it usually means the packet is about to be forwarded against basic ACI Forwarding principals.

Even though the drop name is ACL\_DROP, this ACL is not same as normal Access Control List that can be configured on standalone NX-OS devices or any other routing/switching devices.

## **SUP\_REDIRECT**

This is not a drop.

A sup redirected packet (for example, CDP/LLDP/UDLD/BFD and so on) can be counted as Forward Drop even though the packet is correctly processed and forwarded to CPU.

This occurs in -EX, -FX, and -FX2 platforms such as N9K-C93180YC-EX or N9K-C93180YC-FX. These cannot be counted as drop, however, it is because of ASIC limitation in -EX/-FX/-FX2 platforms.

## Error

When the switch receives an invalid frame on one of the front panel interfaces, it is dropped as an error. Examples of this include frames with FCS or CRC errors. When looking at Uplink/Downlink leaf ports, or Spine ports, it is best to check for FCS/CRC errors using show interface. However, under normal operations, it is expected to see Error Packets incrementing on Uplink/Downlinks ports of leafs, or Spine ports as this counter also includes frames which are pruned by system and not expected to be sent out of the interface.

Example: TTL failures for routed packets, same interface broadcast/flooded frames.

## Buffer

When the switch receives a frame, and there are no buffer credits available for either ingress or egress, the frame will be dropped with Buffer. This typically hints at congestion somewhere in the network. The link that is showing the fault could be full, or, the link containing the destination can be congested.

# Viewing Drop Stats in CLI

## Managed Objects

Secure Shell (SSH) to one of the APIC and run these commands.

```
apic1# moquery -c l2IngrPktsAg15min
```

This provides all object instances for this class l2IngrPktsAg15min.

Here is an example with a filter to query a specific object. In this example, the filter is to show only an object with attributes dn which includes tn-TENANT1/ap-APP1/epg-EPG1.

Also, this example uses egrep to show only required attributes.

Example output 1 : EPG counter object (l2IngrPktsAg15min) of tenant TENANT1, application profile APP1 , epg EPG1.

```
apic1# moquery -c l2IngrPktsAg15min -f 'l2.IngrPktsAg15min.dn*"tn-TENANT1/ap-APP1/epg-EPG1"' | egrep 'dn
dn                : uni/tn-TENANT1/ap-APP1/epg-EPG1/CDl2IngrPktsAg15min
dropPer           : 30                                <--- number of drop packet in the current periodic i
dropRate          : 0.050000                          <--- drop packet rate = dropPer(30) / periodic inter
repIntvEnd        : 2017-03-03T15:39:59.181-08:00    <--- periodic interval = repIntvEnd - repIntvStart
repIntvStart      : 2017-03-03T15:29:58.016-08:00    = 15:39 - 15:29
                                                         = 10 min = 600 sec
```

Or we could use another option **-d** instead of **-c** to get a specific object if you know the object dn.

Example output 2 : EPG counter object (l2IngrPktsAg15min) of tenant TENANT1, application profile APP1 , epg EPG2.

```

apic1# moquery -d uni/tn-TENANT1/ap-APP1/epg-EPG2/CD12IngrPktsAg15min | egrep 'dn|drop[P,R]|rep'
dn                : uni/tn-jw1/BD-jw1/CD12IngrPktsAg15min
dropPer           : 30
dropRate          : 0.050000
repIntvEnd        : 2017-03-03T15:54:58.021-08:00
repIntvStart      : 2017-03-03T15:44:58.020-08:00

```

## Hardware Counters

If you see faults, or want to check Packet drops on switchports using the CLI, the best way to do this is by viewing the platform counters in hardware. Most, but not all counters are shown using **show interface**. The 3 major drop reasons can only be viewed using the platform counters. In order to view these, perform these steps:

### Leaf

SSH to the leaf and run these commands.

```

ACI-LEAF# vsh_lc
module-1# show platform internal counters port <X>
                * where X represents the port number

```

Example output for ethernet 1/31 :

```

<#root>
ACI-LEAF#
vsh_lc
vsh_lc
module-1#
module-1#

show platform internal counters port 31

Stats for port 31
(note: forward drops includes sup redirected packets too)
IF          LPort          Input                Output
          Packets      Bytes      Packets      Bytes
eth-1/31   31  Total          400719    286628225    2302918    463380330
          Unicast      306610    269471065     453831     40294786
          Multicast         0           0    1849091    423087288
          Flood         56783     8427482           0           0
          Total Drops    37327           0           0
          Buffer           0           0           0
          Error           0           0           0
          Forward       37327           0           0
          LB              0           0           0
          AFD RED           0           0           0
          ----- snip -----

```

### Spine

For a box type spine (N9K-C9336PQ), it is exactly same as Leaf.

For modular spines (N9K-C9504 and so on), you must first attach the particular line card before you can view the platform counters. SSH to the spine and run these commands:

```
ACI-SPINE# vsh
```

```
ACI-SPINE# attach module <X>
```

```
module-2# show platform internal counters port <Y>.
```

\* where X represents the module number for the line card you would like to view

Y represents the port number

Example output for ethernet 2/1 :

```
<#root>
```

```
ACI-SPINE#
```

```
vsh
```

```
Cisco iNX-OS Debug Shell
```

```
This shell can only be used for internal commands and exists for legacy reasons. User can use ibash infrastructure as this will be deprecated.
```

```
ACI-SPINE#
```

```
ACI-SPINE#
```

```
attach module 2
```

```
Attaching to module 2 ...
```

```
To exit type 'exit', to abort type '$.'
```

```
Last login: Mon Feb 27 18:47:13 UTC 2017 from sup01-ins on pts/1
```

```
No directory, logging in with HOME=/
```

```
Bad terminal type: "xterm-256color". Will assume vt100.
```

```
module-2#
```

```
module-2#
```

```
show platform internal counters port 1
```

```
Stats for port 1
```

```
(note: forward drops includes sup redirected packets too)
```

IF	LPort	Input		Output		
		Packets	Bytes	Packets	Bytes	
eth-2/1	1	Total	85632884	32811563575	126611414	25868913406
		Unicast	81449096	32273734109	104024872	23037696345
		Multicast	3759719	487617769	22586542	2831217061
		Flood	0	0	0	0
		Total Drops	0		0	

```
Buffer 0
```

```
0
```

```
Error 0
```

```
0
```

```
Forward 0
```



```
LB          0
AFD RED          0
----- snip -----
```

## Faults

### **F112425 - ingress Drop Packets Rate (l2IngrPktsAg15min:dropRate)**

#### Description:

One of the popular reasons for this fault is that Layer 2 packets get dropped with the Forward Drop reason. There are a variety of reasons, but the most common one is:

On some platforms (see Cisco bug ID [CSCvo68407](#)), there is a limitation where L2 packets that need to get redirected to the CPU (for example, CDP/LLDP/UDLD/BFD, and so on), get logged as a Forward Drop as well as get copied to the CPU. This is due to a limitation of the ASIC used in these models.

#### Resolution:

The drops described are purely cosmetic, so the best practice recommendation is to increase the threshold for the fault as shown in the Stats Threshold section. In order to do this, see the instructions in the Stats Threshold.

### **F100264 - ingress Buffer Drop Packets Rate (eqptIngrDropPkts5min:bufferRate)**

#### Description:

This fault can increment when packets are being dropped on a port with reason Buffer. As mentioned before, this typically happens when there is congestion on an interface at either the ingress or egress direction.

#### Resolution:

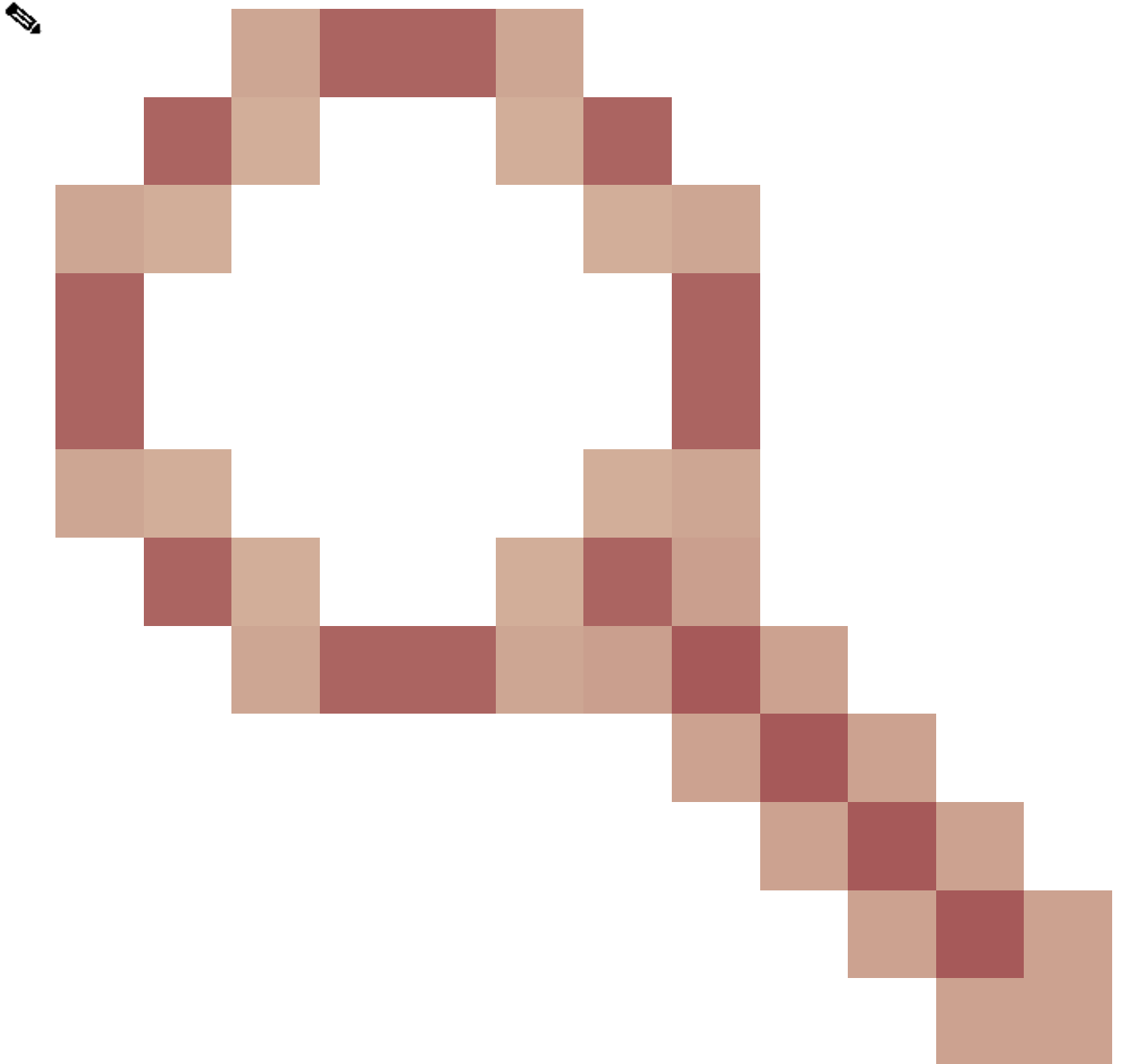
This fault represents actual dropped packets in the environment due to congestion. The dropped packets can be causing issues with applications running in the ACI fabric. Network Administrators can isolate the packet flow and determine if the congestion is due to unexpected traffic flows, inefficient load balancing, and so on, or expected utilization on those ports.

### **F100696 - ingress Forwarding Drop Packets (eqptIngrDropPkts5min:forwardingRate)**

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 **Note:** An ASIC limitation like mentioned before for F11245 can cause these faults to be raised as well. Please see Cisco bug ID [CSCvo68407](#)

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for further details.

This fault is caused by a few scenarios. The most common one is:

#### Description 1) Spine Drops

If this fault is seen on a Spine interface, it could be due to traffic towards an unknown endpoint. When an ARP or IP packet is forwarded to the spine for a proxy lookup, and the endpoint is unknown in the fabric, a special glean packet is generated and sent to all leaves on the appropriate BD (internal) multicast group address. This triggers an ARP request from each leaf in the Bridge Domain (BD) to discover the endpoint. Due to a limitation, the glean packet received by the leaf is also reflected back into the fabric again and triggers a forwarding drop on the spine link connected to the leaf. The Forward Drop in this scenario is only incremented on Generation 1 Spine Hardware.

#### Resolution 1)

Since it is known that the issue is caused by a device sending unnecessary amount of Unkown Unicast traffic into the ACI Fabric, it is required to figure out which device is causing this, and see if it can be prevented. This is usually caused by devices that scan or probe for IP addresses on subnets for monitoring purposes. In order to find what IP is sending this traffic, SSH onto the leaf that is connected to the spine interface showing the fault.

From there, you can run this command to see the Source IP Address (sip) that is triggering the glean packet:

```
<#root>
```

```
ACI-LEAF# show ip arp internal event-history event | grep glean | grep sip | more  
[116] TID 11304:arp_handle_inband_glean:3035:
```

```
log_collect_arp_glean
```

```
;sip =
```

```
192.168.21.150
```

```
;dip =
```

```
192.168.20.100
```

```
;info = Received glean packet is an IP packet
```

```
[116] TID 11304:arp_handle_inband_glean:3035: log_collect_arp_glean;sip = 192.168.21.150;dip = 192.
```

In this example output, the glean packet is triggered by 192.168.21.150 and it is recommended to see if this can be mitigated.

## Description 2) Leaf Drops

If this fault is seen on a leaf interface, the most likely cause is due to SECURITY\_GROUP\_DENY drops mentioned.

## Resolution 2)

ACI leaf keeps a log of packets denied due to violations. This log does not capture all of them to protect CPU resources, however, it still provides you a vast amount of logs.

To get required logs, if the interface the fault is raised on is part of a port-channel, it is required to use this command and grep for the port-channel. Otherwise, the physical interface can be grepped.

This log can be quickly rolled over depending on the amount of contract drops.

```
<#root>
```

```
ACI-LEAF# show logging ip access-list internal packet-log deny | grep port-channel2 | more
```

```
[ Sun Feb 19 14:16:12 2017 503637 usecs]: CName: jr:sb(VXLAN: 2129921), VlanType: FD_VLAN, Vlan-Id: 59,
```

```
SIP: 192.168.21.150, DIP: 192.168.20.3
```

```
, SPort: 0, DPort: 0,
```

```
Src Intf: port-channel2
```

```
,
```

Pr  
oto: 1

, PktLen: 98  
[ Sun Feb 19 14:16:12 2017 502547 usecs]: CName: jr:sb(VXLAN: 2129921), VlanType: FD\_VLAN, Vlan-Id: 59,  
oto: 1, PktLen: 98

In this case, 192.168.21.150 is trying to send ICMP messages (IP protocol number 1) to 192.168.20.3. However, there is no contract between the 2 EPG's that allows ICMP, so the packet is dropped. If ICMP is supposed to be allowed, a contract can be added between the two EPG's.

## Stats Threshold

This section describes how to change a threshold for a statistics objects which could potentially raise a fault against drop counter.

A threshold for statistics of each objects (for example, l2IngrPkts, eqptIngrDropPkts) are configured through Monitoring Policy against variety of objects.

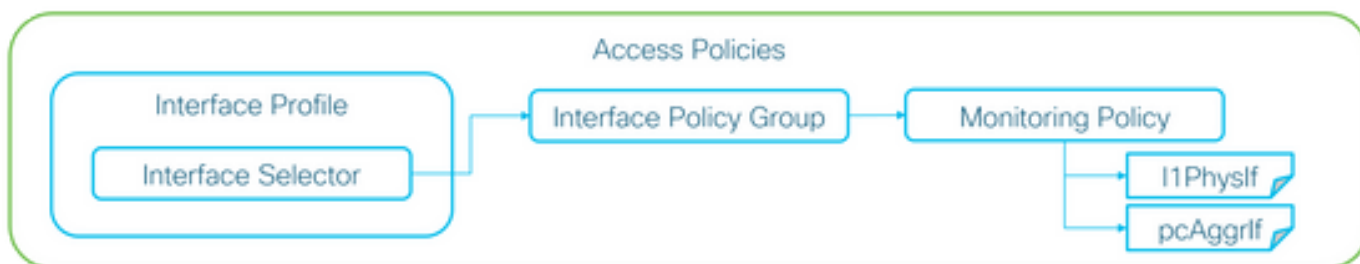
As mentioned in the table at the beggining, eqptIngrDropPkts is monitored under, for example, l1PhysIf objects through Monitoring Policy.

### Forward Drop Packets Rate in eqptIngrDropPkts

There are two portions for this.

- + Access Policies (ports towards external devices. a.k.a front panel ports)
- + Fabric Policies (ports between LEAF and SPINE. a.k.a fabric ports)

Front Panel Ports (ports towards external devices)



Fabric Ports (ports between LEAF and SPINE)



Each port objects (l1PhysIf, pcAggrIf) could be assigned its own Monitoring Policy via Interface Policy Group as shown in the picture above.

By default, there is a default Monitoring Policy under both **Fabric > Access Policies** and **Fabric > Fabric Policies** in APIC GUI. These default Monitoring Policies are assigned to all ports respectively. The default Monitoring Policy under Access Policies is for Front Panel Ports and the default Monitoring Policy under Fabric Policies is for Fabric Ports.

Unless it is required to change thresholds per ports, the default Monitoring Policy in each section can be directly modified to apply the change for all front panel ports and/or fabric ports.

This example is to change thresholds for Forward Drop in eqptIngrDropPkts on fabric ports (Fabric Policies). Perform the same thing under **Fabric > Access Policies** for front panel ports.

1. Navigate to **Fabric > Fabric Policies > Monitoring Policies**.

2. Right click and select **Create Monitoring Policy**.

(If the threshold change can be applied to all fabric ports, navigate to **default** instead of creating a new one.)

3. Expand the new Monitoring Policy or default and navigate to **Stats Collection Policies**.

4. Click the pencil icon for the **Monitoring Object** on the right pane, select **Layer 1 Physical Interface Configuration (l1.PhysIf)**.

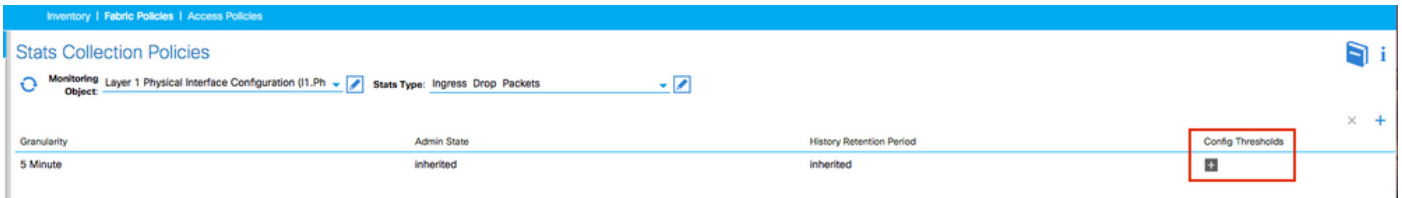
(Step 4 can be skipped when the default policy is used.)

5. From the **Monitoring Object** drop down on the right pane, choose **Layer 1 Physical Interface Configuration (l1.PhysIf)** and **Stats Type**, choose **Ingress Drop Packets**

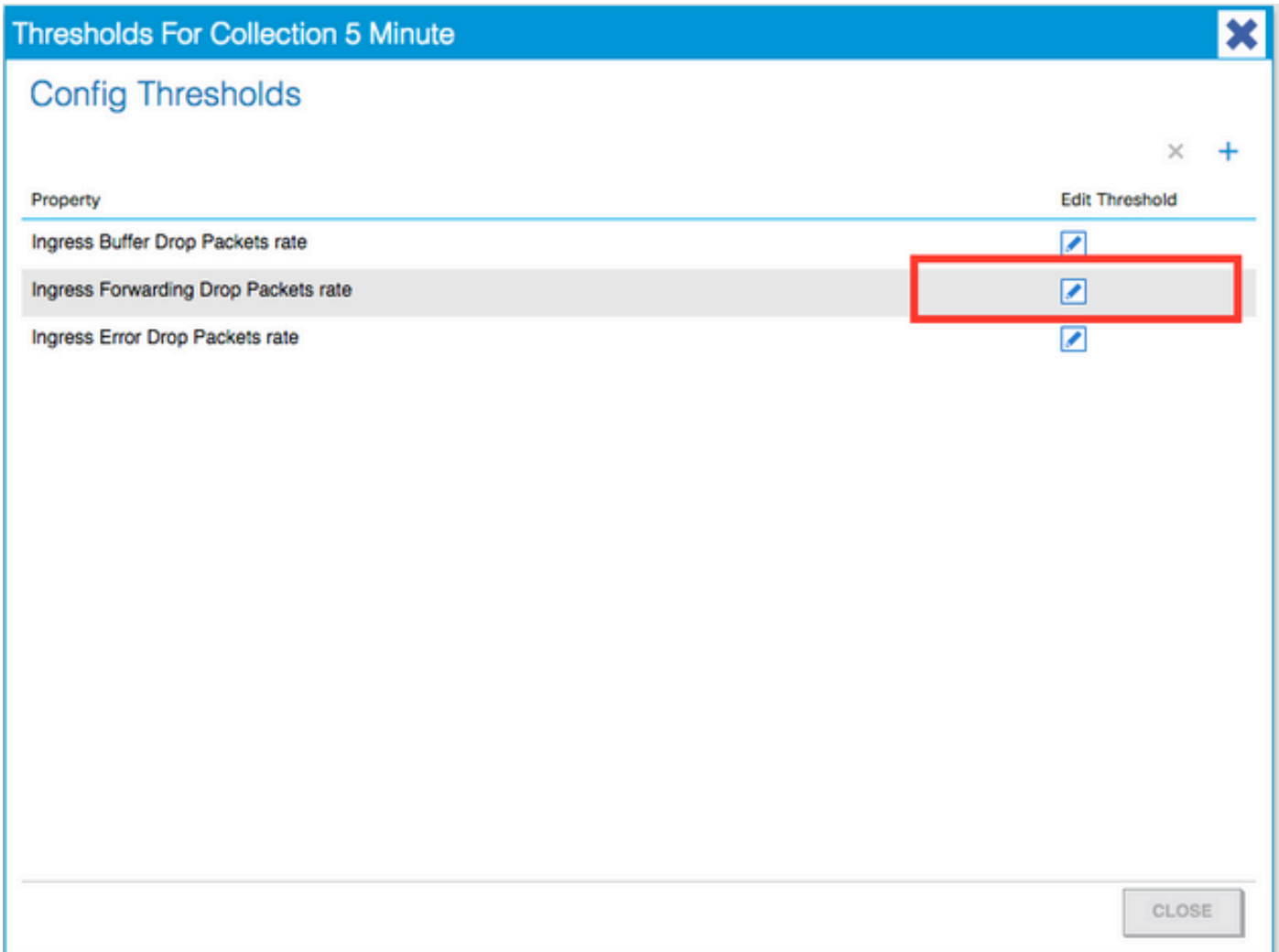
The screenshot displays the APIC GUI interface for configuring a Monitoring Policy. The top navigation bar includes tabs for System, Tenants, Fabric, VM Networking, L4-L7 Services, Admin, and Operations. The breadcrumb path is Inventory | Fabric Policies | Access Policies. The left sidebar shows a tree view of Policies, with 'Stats Collection Policies' expanded and selected. The main content area is titled 'Stats Collection Policies' and shows a configuration for a Monitoring Policy. The 'Monitoring Object' is set to 'Layer 1 Physical Interface Configuration (l1.Ph)' and the 'Stats Type' is set to 'Ingress Drop Packets'. Below this, a table displays the following configuration:

Granularity	Admin State
5 Minute	inherited

6. Click the + Next to Config Thresholds.



7. Edit the Threshold for Forwarding Drop.



8. The recommendation is to disable the rising thresholds to config for critical, major, minor, and warning for forwarding drop rate.

### Edit Stats Threshold

Ingress Forwarding Drop Packets rate

Normal Value: 0

Threshold Direction: **Both** Rising Falling

Rising Thresholds to Config:  Critical  Major  Minor  Warning

**CHECK ALL** **UNCHECK ALL**

Falling Thresholds to Config:  Critical  Major  Minor  Warning

**CHECK ALL** **UNCHECK ALL**

Rising			Falling		
	Set	Reset		Reset	Set
Critical	10000	9000	Warning	0	0
Major	5000	4900	Minor	0	0
Minor	500	490	Major	0	0
Warning	10	9	Critical	0	0

**SUBMIT** **CANCEL**

9. Apply this new Monitoring Policy to the Interface Policy Group for required ports. Do not forget to configure Interface Profile, Switch Profile, and so on in Fabric Policies accordingly.

(Step 9 can be skipped when the default policy is used.)

CISCO System Tenants **Fabric** VM L4-L7 Admin Operations Apps

Inventory **Fabric Policies** Access Policies

Policies

- Quick Start
- Switch Policies
- Module Policies
- Interface Policies
- Policy Groups
  - FABRIC\_PORT\_PG**
  - Profiles
  - Leaf Fabric Interface Overrides
  - Spine Fabric Interface Overrides
- Pod Policies
- Global Policies
- Monitoring Policies
  - Common Policy
  - FABRIC\_PORT**
  - default

### Leaf Fabric Port Policy Group - FABRIC\_PORT\_PG

Policy Fault

Properties

Name: FABRIC\_PORT\_PG

Description: optional

Monitoring Policy: **FABRIC\_PORT**

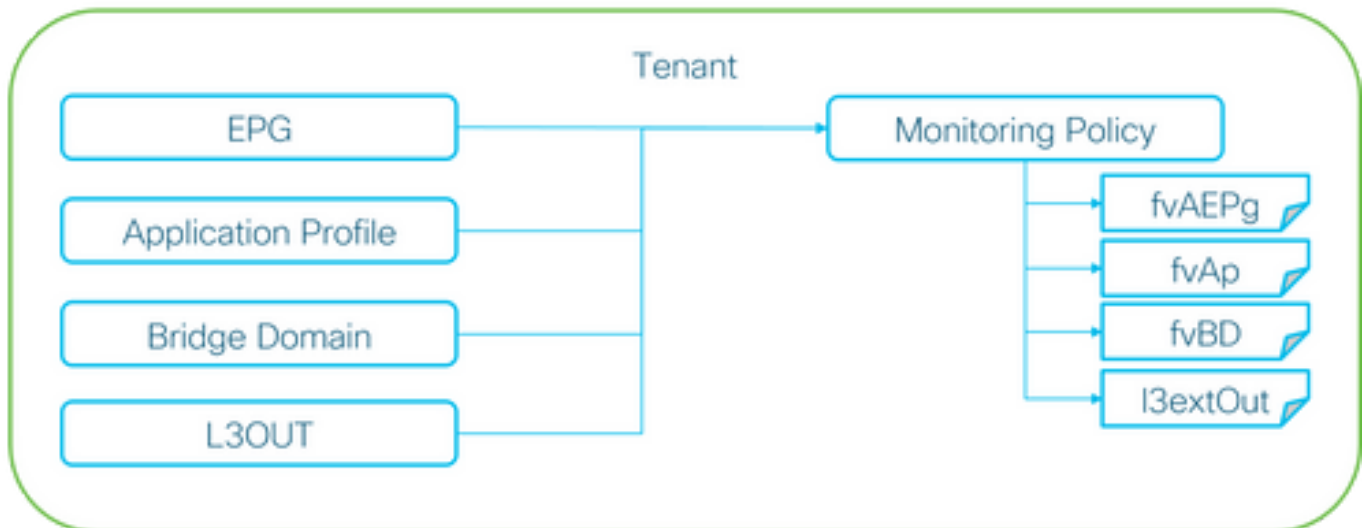
10. If this is for Front Panel Ports (Access Policies), perform the same thing for **Aggregated Interface (pc.AgrIf)** as opposed to **Layer 1 Physical Interface Configuration (l1.PhysIf)** so that this new Monitoring Policy can be applied to port-channel as well as physical port.

(Step 10 can be skipped when the default policy is used.)

## Ingress Drop Packets Rate in l2IngrPktsAg

There are multiple portions for this.

VLAN or any aggregation of VLAN stats



✘ It doesn't have to be one Monitoring Policy. It could be one Monitoring Policy for each.

As the above picture depicts, l2IngrPktsAg is monitored under a lot of objects. The above picture only shows some examples, but not all of the objects for l2IngrPktsAg. However, the threshold for statistics is configured through Monitoring Policy as well as eqptIngrDropPkts under l1PhysIf or pcAgrIf.

Each object ( EPG(fvAEPg), Bridge Domain(fvBD), and so on) could be assigned its own Monitoring Policy as shown in the picture above.

By default, all of these objects under tenant uses the default Monitoring Policy under **Tenant > common > Monitoring Polices > default** unless configured otherwise.

Unless it is required to change thresholds per each component, the default Monitoring Policy under tenant common can be directly modified to apply the change for all related components.

This example is to change thresholds for Ingress Drop Packets Rate in l2IngrPktsAg15min on Bridge Domain.

1. Navigate to **Tenant > (tenant name) > Monitoring Policies**.

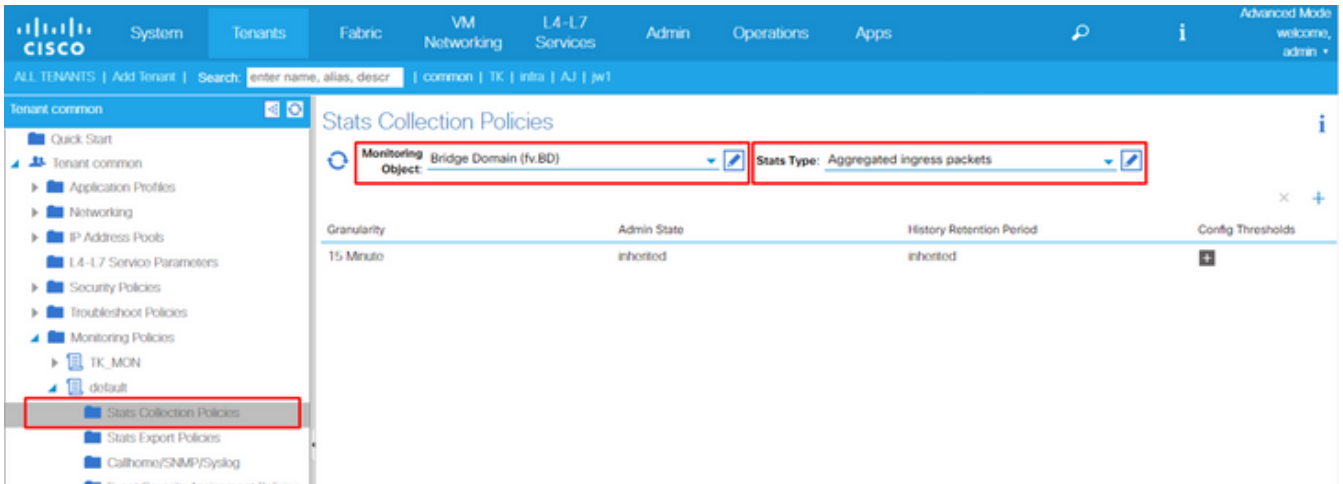
(tenant needs to be common if the default Monitoring Policy is used or the new Monitoring Policy needs to be applied across tenants)

2. Right click and select **Create Monitoring Policy**.

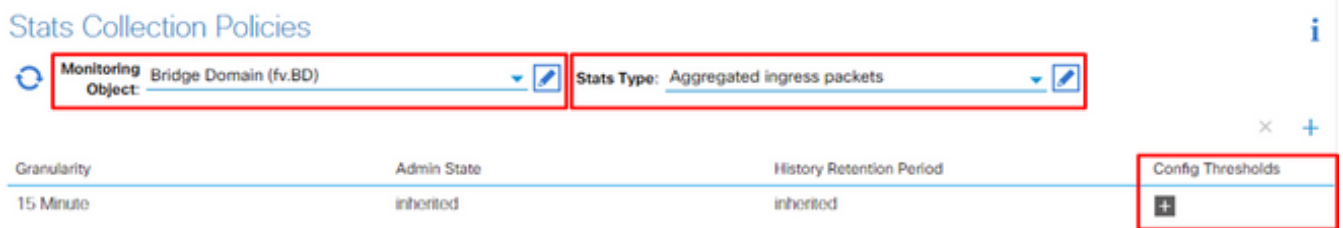
(If the threshold change can be applied to all components, navigate to **default** instead of creating a new one.)



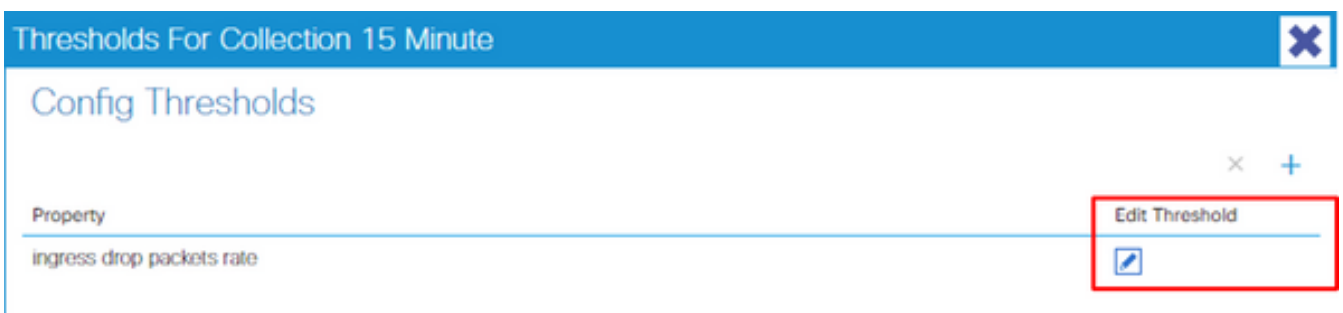
- Expand the new Monitoring Policy or default and navigate to **Stats Collection Policies**.
- Click the pencil icon for the **Monitoring Object** on the right pane, select **Bridge Domain (fv.BD)**.  
(Step 4 can be skipped when the default policy is used.)
- From the **Monitoring Object** drop down on the right pane, choose **Bridge Domain (fv.BD)** and **Stats Type**, choose **Aggregated ingress packets**.



- Click the + Next to Config Thresholds.



- Edit the Threshold for Forwarding Drop.



- The recommendation is to disable the rising thresholds to config for critical, major, minor, and warning for forwarding drop rate.

### Edit Stats Threshold

Ingress Forwarding Drop Packets rate

Normal Value: 0

Threshold Direction: **Both** Rising Falling

Rising Thresholds to Config:

- Critical
- Major
- Minor
- Warning

CHECK ALL UNCHECK ALL

Falling Thresholds to Config:

- Critical
- Major
- Minor
- Warning

CHECK ALL UNCHECK ALL

Rising			Falling		
	Set	Reset		Reset	Set
Critical	10000	9000	Warning	0	0
Major	5000	4900	Minor	0	0
Minor	500	490	Major	0	0
Warning	10	9	Critical	0	0

SUBMIT CANCEL

9. Apply this new Monitoring Policy to the Bridge Domain which requires threshold change.

(Step 9 can be skipped when the default policy is used.)

CISCO System Tenants Fabric VM Networking L4-L7 Services Admin Operations Apps

ALL TENANTS | Add Tenant | Search: enter name, alias, descr | common | TK | infra | AJ | jw1

Tenant TK

- Quick Start
- Tenant TK
  - Application Profiles
  - Networking
    - Bridge Domains
      - BD1
      - BD2
      - BD3
      - BD\_SG\_PBR1
      - BD\_SG\_PBR2
      - BD\_SPAN
    - VRFs

Bridge Domain - BD1

Policy Operational Stats Health Faults History

Main L3 Configurations **Advanced/Troublesh...**

100

Properties

Monitoring Policy: TK\_MON

Unknown Unicast Traffic Class ID: 32770

Segment: 15826915

Multicast Address: 225.1.26.128

NetFlow Monitor Policies:

**NOTE:** Non default Monitoring Policy cannot have configurations which are present on the default Monitoring Policy. If it is required to keep those configurations the same as the default Monitoring Policy, users need to check the default Monitoring Policy config and manually configure the same policies on non-default Monitoring Policy.