# **Troubleshoot Dropping of Packets Due to Higher MTU (Oversize Packet)**



Document ID: 118425

Contributed by Nazmul Rajib and Josiah Zimmermann, Cisco TAC Engineers. Sep 12, 2014

### Contents

Introduction Verification Configuration

### Introduction

Packets in any network may have higher MTU than the default size of 1518 bytes. This may cause the packets to be dropped at the interface of a managed device before they are processed by Snort. As a result, there will be no corresponding events on the web user interface of a FireSIGHT Management Center. This document describes how to verify packet drops due to oversize packets, and how to change the default the MTU settings on a FireSIGHT System.

### Verification

In order to determine if a drop occurs due to MTU size, follow the steps below:

1. Log into your managed device via Secure Shell (SSH), and run the following command:

> show portstats

Example output:

> show portstats	
====Port: s1p1====	
LateCollisions	0
Collisions	0
BadCRC	0
RxErrorFrameReceived	0
Jabber	0
Oversize	0
Fragments	0
Undersize	0
ReceiveFIFOOverrun	0
FCReceived	0
FCSent	0
SentMultiple	0
BroadcastFramesSent	0
MulticastFramesSent	0
ExcessiveCollisions	0
UnicastFramesSent	0
Frames1024toMaxOctets	893517976
Frames512to1023Octets	386326257
Frames256to5110ctets	311216343
Frames128to2550ctets	816262625
Frames65to1270ctets	9596711850
Frames64Octets	6063772443
MulticastFramesReceived	1061719547
BroadcastFramesReceived	475460322
SentDeferred	0
GoodUnicastFramesReceivec	16530627625
CRCErrorsSent	0
BadOctetsReceived	0
GoodOctetsReceived 30	52120191917
GoodOctetsSent	0

2. Check the *Oversize* packets for each port. Verify if the number is zero or higher. The above screenshot, for example, shows the oversize counters of port s1p1 is zero. This check let you know which ports are receiving oversize packets.

## Configuration

If the interfaces of your managed device see oversized packets, you must increase the MTU on the interfaces. In order to change the MTU, follow the steps below:

- 1. Login to the web user interface of your FireSIGHT Management Center.
- 2. Navigate to *Devices > Device Management*.
- 3. Click on the *Inline Sets* tab, and click *Edit* next to the Inline Set you wish to change.
- 4. Set the *MTU* field to an appropriate number based on the type of traffic of your network.

Overview Analysis Policies Devices Objects FireAMP		🚳 Health System Help + admin +
Device Management NW VPN		
zim52sensor.sfeng.sourcefire.com Visul Ovice 1088 Device Interfaces Entre Sets		Apply Charges
		C Add Inline Set
Name -	Interface Pairs	
Default mire Set	e01 = e02	Ø3.
	Edt Irine Set 9 x Conversal Advanced Amme Trainfaces:	

4. Save and apply the changes.

Updated: Sep 12, 2014

Document ID: 118425