

SG500XG-8F8T-K9-NA:大量丟棄的資料包

識別日期

2017年6月15日

解決日期

2017年7月14日

受影響的產品

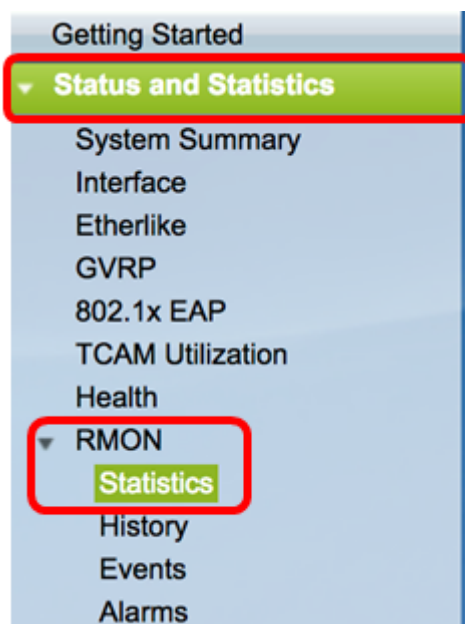
SG500XG-8F8T-K9-NA	1.4.7.0 6

問題描述

在連線UCS220裝置的SG500XG中，介面的RMON統計資訊中有大量丟棄事件。

要檢視丟棄資料包時的埠統計資訊，請執行以下步驟：

步驟1.登入到基於Web的交換機實用程式，然後轉到**Status and Statistics > RMON > Statistics**。

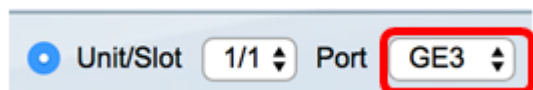


步驟2.在Interface部分，按一下Unit/Slot下拉選單，選擇特定裝置（如果交換機屬於堆疊）。



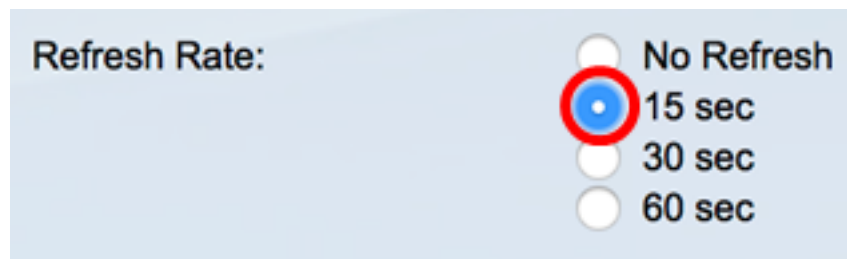
附註：在本範例中，選擇1/1表示交換器是堆疊中的第一個裝置且位於第一個插槽上。

步驟3.點選埠下拉選單選擇要檢視的特定埠。



附註：在本示例中，選擇了埠GE3。

步驟4. (可選) 按一下單選按鈕以選擇刷新率。這將允許頁面根據您設定的間隔自動刷新。



附註：在本示例中，選擇了15秒，表示頁面將每15秒自動刷新一次。

步驟5.檢查顯示的統計資訊，以驗證所選介面中是否有丟棄的事件。

Bytes Received:	59132631
Drop Events:	595
Packets Received:	314438
Broadcast Packets Received:	1240
Multicast Packets Received:	294151
CRC & Align Errors:	0
Undersize Packets:	0
Oversize Packets:	0
Fragments:	0
Jabbers:	0
Collisions:	0

附註：在本例中，統計資訊顯示有595個事件被丟棄。

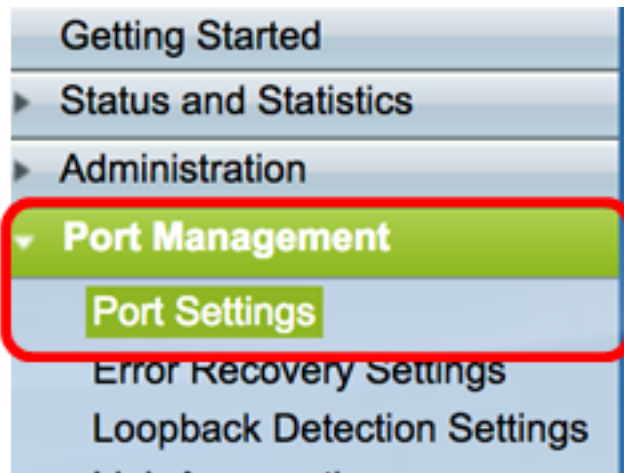
後續步驟

使用Wireshark在有問題的埠上捕獲資料包。請遵循以下步驟：

啟用自動交涉

啟用自動交涉功能允許連線埠將其傳輸速度、雙工模式和流量控制功能通告給連線埠連結夥伴。

步驟1.登入到交換機基於Web的實用程式，然後轉到埠管理>埠設定。



步驟2.在「Port Setting Table」下，按一下找到丟棄事件的埠的單選按鈕，然後按一下**Edit**。

Port Setting Table												
Filter: Interface Type equals to Port of Unit 1/1 <input type="button" value="Go"/>												
	Entry No.	Port	Description	Port Type	Operational Status	Link Status SNMP Traps	Time Range		Port Speed	Duplex Mode	LAG	Protection State
							Name	State				
<input type="radio"/>	1	GE1		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	2	GE2		1000M-Copper	Down	Enabled						Unprotected
<input checked="" type="radio"/>	3	GE3		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	4	GE4		1000M-Copper	Down	Enabled						Unprotected
<input type="radio"/>	5	GE5		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	6	GE6		1000M-Copper	Down	Enabled						Unprotected
<input type="radio"/>	7	GE7		1000M-Copper	Down	Enabled						Unprotected
<input type="radio"/>	8	GE8		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	9	GE9		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	10	GE10		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
<input type="radio"/>	11	GE11		1000M-Copper	Down	Enabled						Unprotected
<input type="radio"/>	12	GE12		1000M-Copper	Down	Enabled						Unprotected
<input type="radio"/>	50	XG2		10G-FiberOptics	Down	Enabled						Unprotected

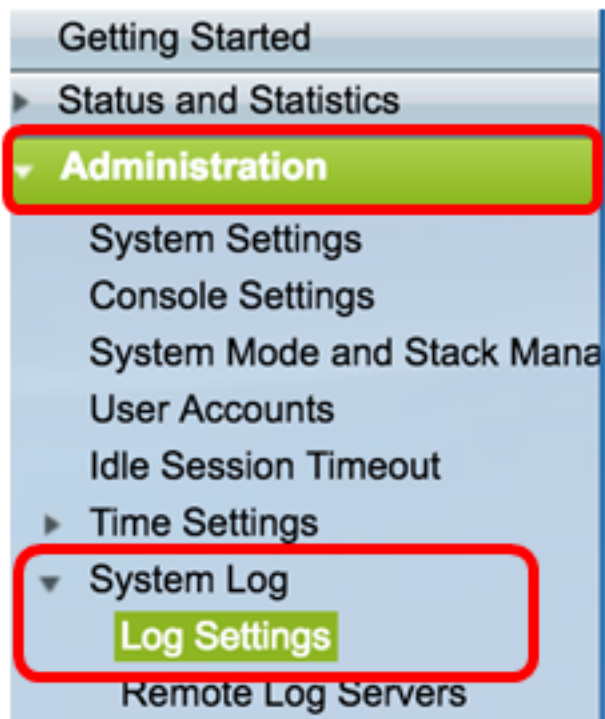
附註：在本示例中，選擇了埠GE3。

步驟3.在「編輯連線埠設定」視窗中，勾選「自動交涉」的Enable覆取方塊，然後按一下**Apply**。

Auto Negotiation:	<input checked="" type="checkbox"/> Enable	Operational Auto Negotiation:	Enable
Administrative Port Speed:	<input type="radio"/> 10M <input type="radio"/> 100M <input checked="" type="radio"/> 1000M	Operational Port Speed:	1000M
Administrative Duplex Mode:	<input type="radio"/> Half <input checked="" type="radio"/> Full	Operational Duplex Mode:	Full
Auto Advertisement:	<input checked="" type="checkbox"/> Max Capability <input type="checkbox"/> 10 Half <input type="checkbox"/> 10 Full <input type="checkbox"/> 100 Half <input type="checkbox"/> 100 Full <input type="checkbox"/> 1000 Full	Operational Advertisement:	10 Half 10 Full 100 Half 100 Full 1000 Full
Preference Mode:	<input checked="" type="radio"/> Slave <input type="radio"/> Master		
Neighbor Advertisement:	10 Half 10 Full 100 Half 100 Full 1000 Full		
Back Pressure:	<input type="checkbox"/> Enable		
Flow Control:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable <input type="radio"/> Auto-Negotiation		
MDI/MDIX:	<input type="radio"/> MDIX <input type="radio"/> MDI <input checked="" type="radio"/> Auto	Operational MDI/MDIX:	MDIX
Protected Port:	<input type="checkbox"/> Enable		
	Member in LAG:		
<input checked="" type="button"/> Apply <input type="button"/> Close			

啟用日誌設定

步驟1.轉至Administration > System Log > Log Settings。



步驟2.在Log Settings下，選中Logging **Enable** 竅取方塊。

Log Settings

Logging: Enable

Syslog Aggregator: Enable

步驟3.按一下單選按鈕將「建立者識別符號」(Originator Identifier)設定為「無」(None)。

Originator Identifier: None

Hostname

IPv4 Address

IPv6 Address

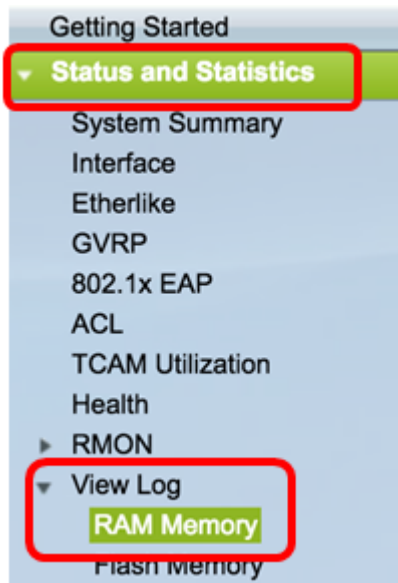
User Defined

步驟4.在「RAM and Flash Memory Logging (RAM和快閃記憶體日誌記錄)」下，選中除「Debug (調試)」之外的所有覈取方塊，然後按一下Apply。

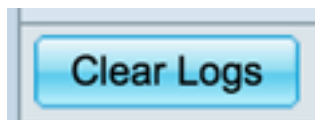
RAM Memory Logging	Flash Memory Logging
Emergency: <input checked="" type="checkbox"/>	Emergency: <input checked="" type="checkbox"/>
Alert: <input checked="" type="checkbox"/>	Alert: <input checked="" type="checkbox"/>
Critical: <input checked="" type="checkbox"/>	Critical: <input checked="" type="checkbox"/>
Error: <input checked="" type="checkbox"/>	Error: <input checked="" type="checkbox"/>
Warning: <input checked="" type="checkbox"/>	Warning: <input checked="" type="checkbox"/>
Notice: <input checked="" type="checkbox"/>	Notice: <input checked="" type="checkbox"/>
Informational: <input checked="" type="checkbox"/>	Informational: <input checked="" type="checkbox"/>
Debug: <input type="checkbox"/>	Debug: <input type="checkbox"/>

清除RAM和快閃記憶體中的日誌

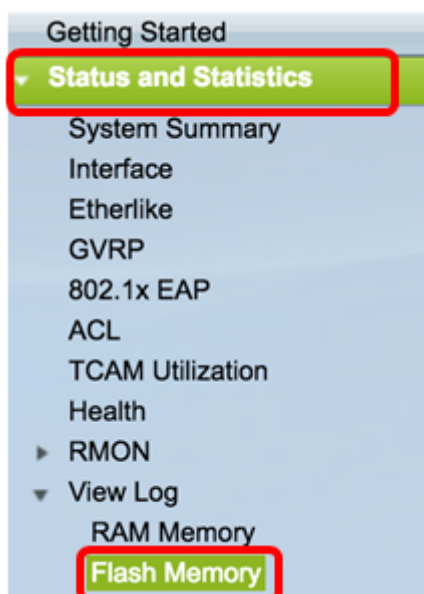
步驟1.轉到Status and Statistics > View Log > RAM Memory。



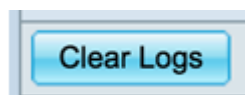
步驟2.按一下RAM Memory Log Table下的 **Clear Logs**按鈕。



步驟3.轉到快閃記憶體。

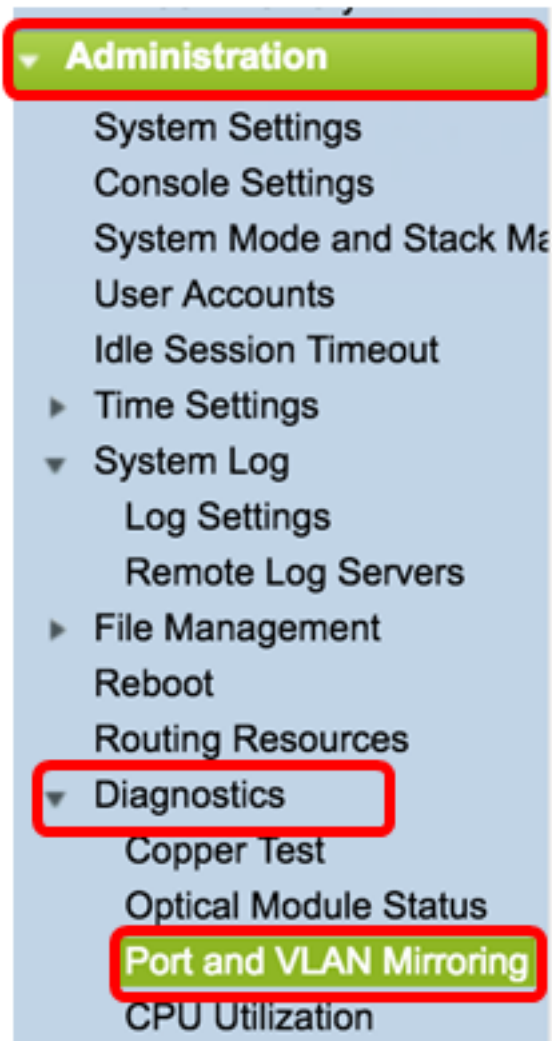


步驟4.按一下「快閃記憶體日誌表」下的**Clear Logs**按鈕。



新增 連接埠 和VLAN映象

步驟1.前往**管理>診斷>連線埠和VLAN映象**。



步驟2.在「埠和VLAN映象」表下，按一下Add。



步驟3.在Add Port and VLAN Mirroring視窗中，點選Destination Port下拉選單以選擇運行Wireshark的電腦所連線的埠。

Destination Port: Unit/Slot Port

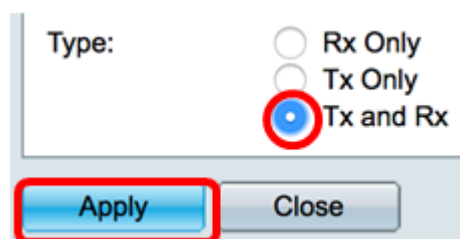
附註：在本示例中，選擇了埠GE1。

步驟4.點選Source Port下拉選單，選擇找到丟棄事件的埠。

Destination Port: Unit/Slot Port
Source Interface: Unit/Slot Port

附註：在本示例中，選擇了埠GE3。

步驟5. 按一下Tx and Rx單選按鈕以選擇「Type」，然後按一下Apply。



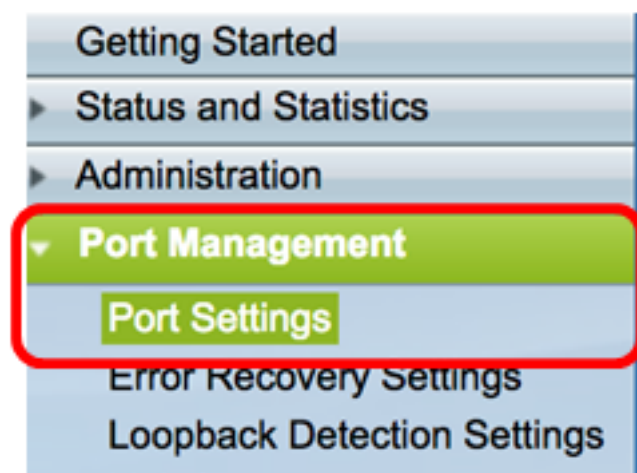
The screenshot shows a configuration window with the label 'Type:'. There are three radio button options: 'Rx Only', 'Tx Only', and 'Tx and Rx'. The 'Tx and Rx' option is selected and highlighted with a red circle. Below the options are two buttons: 'Apply' and 'Close'. The 'Apply' button is highlighted with a red rectangle.

步驟6. 在運行Wireshark的電腦上啟動捕獲。

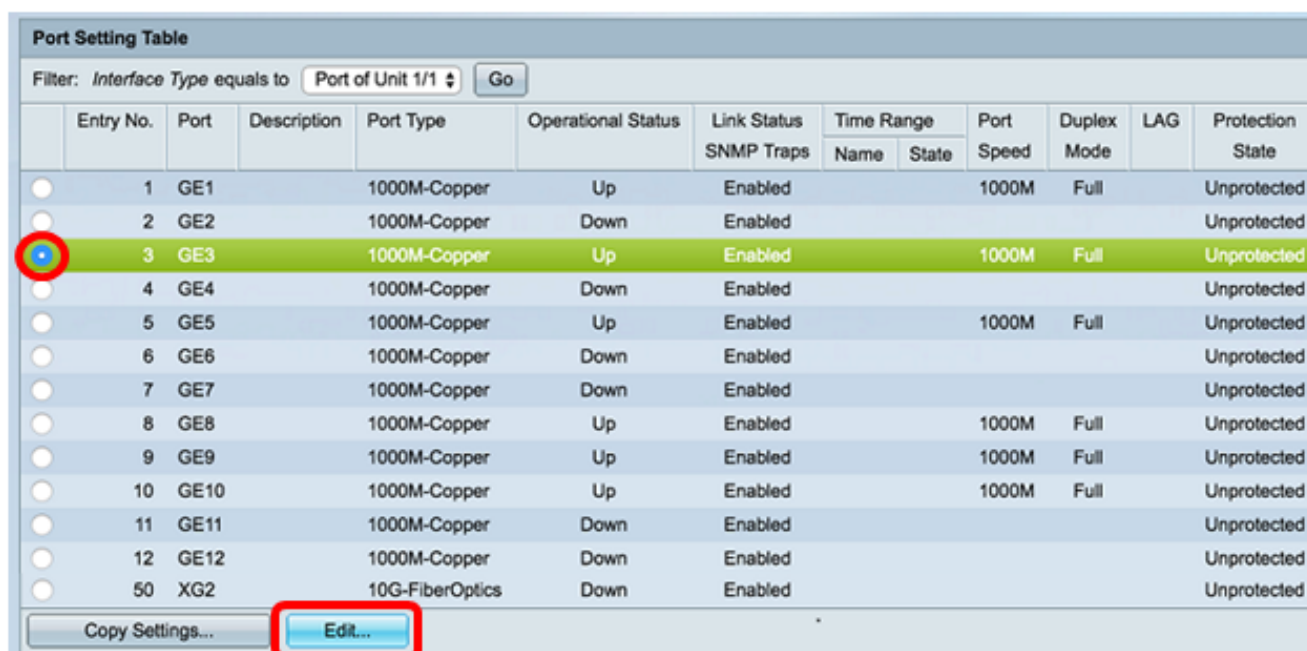
解析

啟用流量控制。為此，請遵循以下步驟：

步驟1. 登入到交換機基於Web的實用程式，然後轉到埠管理>埠設定。



步驟2. 在「Port Setting Table」下，按一下找到丟棄事件的埠的單選按鈕，然後按一下Edit。



The screenshot shows the 'Port Setting Table' interface. It includes a filter bar with the text 'Filter: Interface Type equals to Port of Unit 1/1' and a 'Go' button. Below the filter is a table with columns: Entry No., Port, Description, Port Type, Operational Status, Link Status, Time Range, Port Speed, Duplex Mode, LAG, and Protection State. The table contains 13 rows of data. The row for port GE3 is highlighted in green, and its selection radio button is circled in red. At the bottom of the table, there are two buttons: 'Copy Settings...' and 'Edit...'. The 'Edit...' button is highlighted with a red rectangle.

Entry No.	Port	Description	Port Type	Operational Status	Link Status	Time Range		Port Speed	Duplex Mode	LAG	Protection State
						Name	State				
1	GE1		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
2	GE2		1000M-Copper	Down	Enabled						Unprotected
3	GE3		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
4	GE4		1000M-Copper	Down	Enabled						Unprotected
5	GE5		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
6	GE6		1000M-Copper	Down	Enabled						Unprotected
7	GE7		1000M-Copper	Down	Enabled						Unprotected
8	GE8		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
9	GE9		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
10	GE10		1000M-Copper	Up	Enabled			1000M	Full		Unprotected
11	GE11		1000M-Copper	Down	Enabled						Unprotected
12	GE12		1000M-Copper	Down	Enabled						Unprotected
50	XG2		10G-FiberOptics	Down	Enabled						Unprotected

附註：在本示例中，選擇了埠GE3。

步驟3.在「編輯埠設定」視窗中，選中Flow Control的**Enable**覆取方塊，然後按一下**Apply**。

Neighbor Advertisement: 10 Half 10 Full 100 Half 100 Full 1000 Full

Back Pressure: Enable

Flow Control: Enable
 Disable
 Auto-Negotiation

MDI/MDIX: MDIX Operational MDI/MDIX:
 MDI
 Auto

Protected Port: Enable

Member in LAG:

步驟4.按一下閃爍按  鈕永久儲存設定。