

在F8 CIMC配置實用程式中預設啟用自動協商

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簡介

本文說明如何解決使用F8 CIMC組態工具在思科整合管理控制器(CIMC)網路模式之間交換時預設啟用自動交涉的問題。只有專用模式支援自動協商，因此從任何非專用模式切換到專用模式可能會引發此行為。

問題

當您依賴F8實用程式來配置CIMC (尤其是各種網路模式) 時，此問題會受到影響。

客戶可視性/影響：

您可能注意到，從非專用網路模式(Shared-LOM/Cisco Card/Shared-LOM Ext)切換到專用網路模式時，預設情況下不會啟用自動協商設定。

附註： 僅當使用F8 CIMC配置實用程式更新CIMC設定時，才會出現這種情況，並且不影響使用WebUI更改設定時。

解決方案

使用F8實用程式從共用LOM模式切換到專用模式的步驟如下。

1. 啟動伺服器並選擇F8以進入CIMC配置實用程式，如下圖所示。

```

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.
*****
NIC Properties
NIC mode                               NIC redundancy
Dedicated:      [ ]                   None:           [ ]
Shared LOM:     [X]                   Active-standby: [ ]
Cisco Card:     [ ]                   Active-active:  [X]
Shared LOM Ext: [ ]

IP (Basic)
IPV4:           [X]                   IPV6:          [ ]
DHCP enabled    [ ]
CIMC IP:        172.22.251.72
Prefix/Subnet:  255.255.252.0
Gateway:        172.22.248.1
Pref DNS Server: 0.0.0.0

VLAN (Advanced)
VLAN enabled:   [ ]
VLAN ID:        1
Priority:        0

*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F1>Additional settings

```

附註：您必須按F1，這取決於您使用的CIMC版本，才能檢視額外的配置設定，如下圖所示。

```

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.
*****
Common Properties
Hostname:      C240-FCH1612V0W4
Dynamic DNS:   [X]
DDNS Domain:

FactoryDefaults
Factory Default: [ ]

Default User(Basic)
Default password:
Reenter password:

Port Properties
Auto Negotiation: [ ]
Speed[1000/100 Mbps]: 100
Duplex mode[half/full]: full

Port Profiles
Reset:         [ ]
Name:

*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F2>PreviousPage

```

附註：此處您處於共用LOM模式，可以看到未啟用自動交涉，因為它不是有效的設定。

當您嘗試啟用時，系統會顯示錯誤，如下圖所示。

```
Reenter password:
Port Properties
  Auto Negotiation:      [ ]
  Speed[1000/100 Mbps]: 100
  Duplex mode[half/full]: full
Port Profiles
  Reset:                 [ ]
  Name:
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F2>PreviousPage

Error: Port Properties SET operation is for Dedicated NIC mode only!
```

2.要返回上一頁，請按F1。

然後，選擇這些設定以將CIMC切換到專用模式：

- NIC模式>專用
- NIC冗餘>無
- 使用Vlan、IPv4或IPv6以及靜態地址與DHCP地址處理取決於您
- 按F10以儲存設定，如下圖所示。

```
Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.
*****
NIC Properties
  NIC mode                NIC redundancy
  Dedicated:              [X]          None:                      [X]
  Shared LOM:             [ ]          Active-standby:           [ ]
  Cisco Card:             [ ]          Active-active:            [ ]
  Shared LOM Ext:         [ ]
IP (Basic)
  IPV4:                   [X]          IPV6:                      [ ]
  DHCP enabled            [ ]
  CIMC IP:                172.22.251.72
  Prefix/Subnet:          255.255.252.0
  Gateway:                172.22.248.1
  Pref DNS Server:        0.0.0.0
VLAN (Advanced)
  VLAN enabled:           [ ]
  VLAN ID:                1
  Priority:                0
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F1>Additional settings

Hit the Refresh key in 45 seconds to get the latest network settings.
```

3.確保等待完整的45秒，然後按下F5刷新網路設定，如下圖所示。

Cisco IMC Configuration Utility Version 2.0 Cisco Systems, Inc.

NIC Properties

NIC mode		NIC redundancy	
Dedicated:	<input checked="" type="checkbox"/>	None:	<input checked="" type="checkbox"/>
Shared LOM:	<input type="checkbox"/>	Active-standby:	<input type="checkbox"/>
Cisco Card:	<input type="checkbox"/>	Active-active:	<input type="checkbox"/>
Shared LOM Ext:	<input type="checkbox"/>		

IP (Basic)

IPV4:	<input checked="" type="checkbox"/>	IPV6:	<input type="checkbox"/>
DHCP enabled	<input type="checkbox"/>		
CIMC IP:	172.22.251.72		
Prefix/Subnet:	255.255.252.0		
Gateway:	172.22.248.1		
Pref DNS Server:	0.0.0.0		

VLAN (Advanced)

VLAN enabled:	<input type="checkbox"/>
VLAN ID:	1
Priority:	0

<Up/Down>Selection <F10>Save <Space>Enable/Disable <F5>Refresh <ESC>Exit
<F1>Additional settings

Network settings configured

按F1檢視其他設定。現在，系統會將自動交涉框顯示為選中狀態。

下面是一些快照，顯示與1.5(4g)版本韌體繫結的CIMC配置實用程式的舊版本。

共用LOM模式如下圖所示。

```
CIMC Configuration Utility  Version 1.7  Cisco Systems, Inc.
*****
NIC Properties
NIC mode
Dedicated:      [ ]
Shared LOM:     [X]
Cisco Card:     [ ]
Shared LOM Ext: [ ]
NIC redundancy
None:           [ ]
Active-standby:[ ]
Active-active: [X]
IPV4 (Basic)
DHCP enabled:   [ ]
CIMC IP:        10.29.131.127
Subnetmask:     255.255.255.0
Gateway:        10.29.131.1
Factory Defaults
CIMC Factory Default:[ ]
Default User (Basic)
Default password:
Reenter password:
VLAN (Advanced)
VLAN enabled:   [ ]
VLAN ID:        1
Priority:        0
Port Profile
Reset:          [ ]
Name:
Port Properties
Auto Negotiation: [ ]
Speed[1000/100 Mbps]: 100
Duplex mode[half/full]: full
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
Network settings configured
```

專用模式如下圖所示。

```
CIMC Configuration Utility  Version 1.7  Cisco Systems, Inc.
*****
NIC Properties
NIC mode
Dedicated:      [X]
Shared LOM:     [ ]
Cisco Card:     [ ]
Shared LOM Ext: [ ]
NIC redundancy
None:           [X]
Active-standby:[ ]
Active-active: [ ]
IPV4 (Basic)
DHCP enabled:   [ ]
CIMC IP:        10.29.131.127
Subnetmask:     255.255.255.0
Gateway:        10.29.131.1
Factory Defaults
CIMC Factory Default:[ ]
Default User (Basic)
Default password:
Reenter password:
VLAN (Advanced)
VLAN enabled:   [ ]
VLAN ID:        1
Priority:        0
Port Profile
Reset:          [ ]
Name:
Port Properties
Auto Negotiation: [X]
Speed[1000/100 Mbps]: 1000
Duplex mode[half/full]: full
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
Network settings configured
```

附註：您可以看到，自動交涉框實際上已選中。

結論

自動交涉設定僅在專用模式下可用。只要設定了有效的專用配置，此設定就會啟用自身。