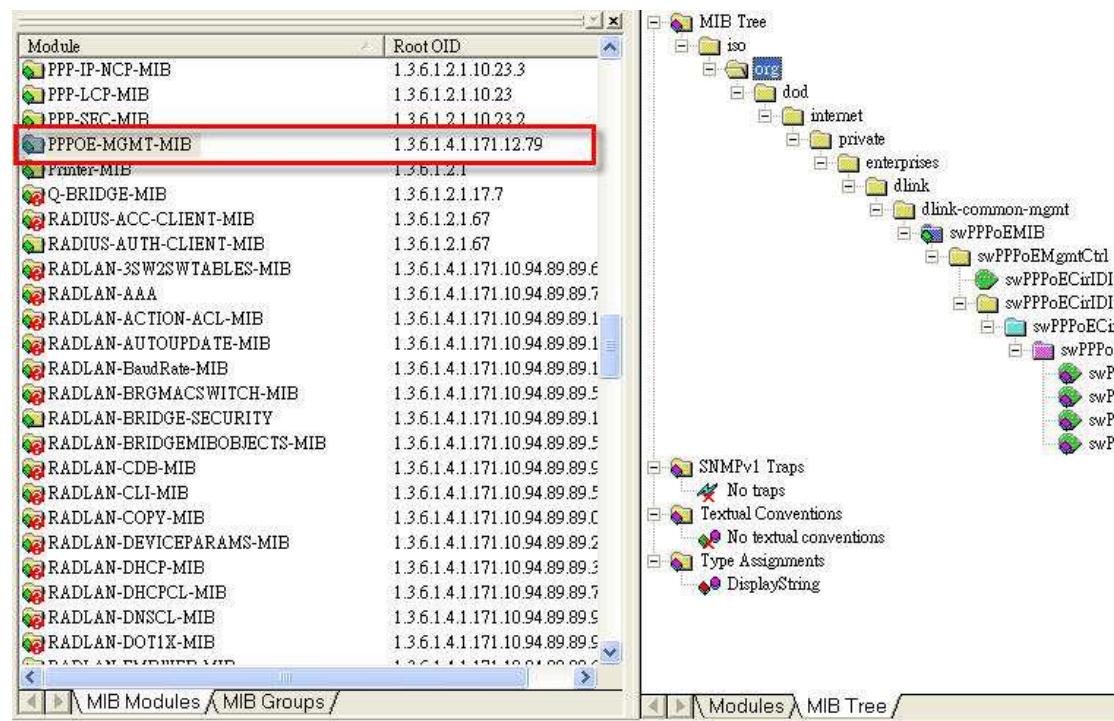


NETSNMP – How to configure PPPoE Circuit ID Insertion on DES-3500 series

The OIDs of configuring PPPoE Circuit ID Insertion are defined in PPPoE-MGMT-MIB.



swPPPoEMIB

Module: PPPOE-MGMT-MIB	
Name:	swPPPoEMIB
Type:	MODULE-IDENTITY
OID:	1.3.6.1.4.1.171.12.79
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(1).swPPPoEMIB
Module:	PPPOE-MGMT-MIB
Parent:	dlink-common-mgmt
First child:	swPPPoEMgmtCtrl
Last updated:	April 2, 09 at 00:00 GMT (0904020000Z)
Organization:	D-Link Corp
Contact:	http://support.dlink.com
Description:	The structure of PPPoE management for the proprietary enterprise.

swPPPoECirIDInsertState

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertState
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.1
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoEMgmtCtrl
Next sibling:	swPPPoECirIDInsertPortMgmt
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Value list:	1: enabled(1) 2: disabled(2)
Description:	This object indicates the status of the PPPoE circuit ID insertion state of the switch.

swPPPoECirIDInsertPortTable

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortTable
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortMgmt
First child:	swPPPoECirIDInsertPortEntry
Numerical syntax:	Sequence
Base syntax:	SEQUENCE OF SwPPPoECirIDInsertPortEntry
Composed syntax:	SEQUENCE OF SwPPPoECirIDInsertPortEntry
Status:	current
Max access:	not-accessible
Sequences:	1: swPPPoECirIDInsertPortIndex - INTEGER (2 - int, int32) 2: swPPPoECirIDInsertPortState - INTEGER (2 - int, int32) 3: swPPPoECirIDInsertPortCirID - INTEGER (2 - int, int32) 4: swPPPoECirIDInsertPortUDFString - DisplayString(4 - octets)
Description:	The table specifies the PPPoE circuit ID insertion function specified by the port.

swPPPoECirIDInsertPortEntry

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortEntry
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1.1
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortTable
First child:	swPPPoECirIDInsertPortIndex
Numerical syntax:	Null
Base syntax:	SwPPPoECirIDInsertPortEntry
Composed syntax:	SwPPPoECirIDInsertPortEntry
Status:	current
Max access:	not-accessible
Sequences:	1: swPPPoECirIDInsertPortIndex - INTEGER(2 - int, int32) 2: swPPPoECirIDInsertPortState - INTEGER(2 - int, int32) 3: swPPPoECirIDInsertPortCirID - INTEGER(2 - int, int32) 4: swPPPoECirIDInsertPortUDFString - DisplayString(4 - octets)
Indexes:	1: swPPPoECirIDInsertPortIndex
Description:	A list of information contained in swPPPoECirIDInsertPortTable.

swPPPoECirIDInsertPortIndex

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortIndex
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1.1.1
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortEntry
Next sibling:	swPPPoECirIDInsertPortState
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	not-accessible
Size list:	1: 1..65535
Description:	This object indicates the module's port number. The range is from the maximum port number specified in the module

swPPPoECirIDInsertPortState

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortState
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1.1.2
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortEntry
Prev sibling:	swPPPoECirIDInsertPortIndex
Next sibling:	swPPPoECirIDInsertPortCirID
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Value list:	1: enabled(1) 2: disabled(2)
Description:	This object indicates the PPPoE circuit ID insertion function state on the port.

swPPPoECirIDInsertPortCirID

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortCirID
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1.1.3
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortEntry
Prev sibling:	swPPPoECirIDInsertPortState
Next sibling:	swPPPoECirIDInsertPortUDFString
Numerical syntax:	Integer (32 bit)
Base syntax:	INTEGER
Composed syntax:	INTEGER
Status:	current
Max access:	read-write
Value list:	1: switch-ip(1) 2: switch-mac(2) 3: udf-string(3)
Description:	This object indicates the port circuit ID.

swPPPoECirIDInsertPortUDFString

Module: PPPOE-MGMT-MIB	
Name:	swPPPoECirIDInsertPortUDFString
Type:	OBJECT-TYPE
OID:	1.3.6.1.4.1.171.12.79.1.2.1.1.4
Full path:	iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-PPPOE-MGMT-MIB
Module:	
Parent:	swPPPoECirIDInsertPortEntry
Prev sibling:	swPPPoECirIDInsertPortCirID
Numerical syntax:	Octets
Base syntax:	OCTET STRING
Composed syntax:	DisplayString
Status:	current
Max access:	read-write
Description:	This object indicates the user define string when the circuit ID UDF string.

Configure Circuit ID Insertion

Step1. Enable global PPPoE Circuit ID Insertion state.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.1
SNMPv2-SMI::enterprises.171.12.79.1.1.0 = INTEGER: 2

C:\>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.1.0 i 1
SNMPv2-SMI::enterprises.171.12.79.1.1.0 = INTEGER: 1

C:\>
```

Step2. Enable PPPoE Circuit ID Insertion on port 1.

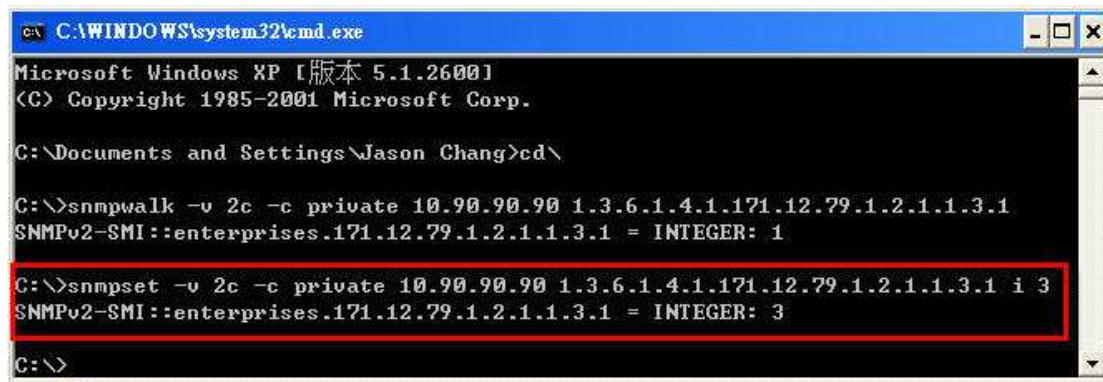
```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.2.1
SNMPv2-SMI::enterprises.171.12.79.1.2.1.1.2.1 = INTEGER: 1

C:\>
```

Step3. Configure Circuit ID as UDF string on port 1.



A screenshot of a Windows XP Command Prompt window titled 'C:\WINDOWS\system32\cmd.exe'. The window shows the following text:

```
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

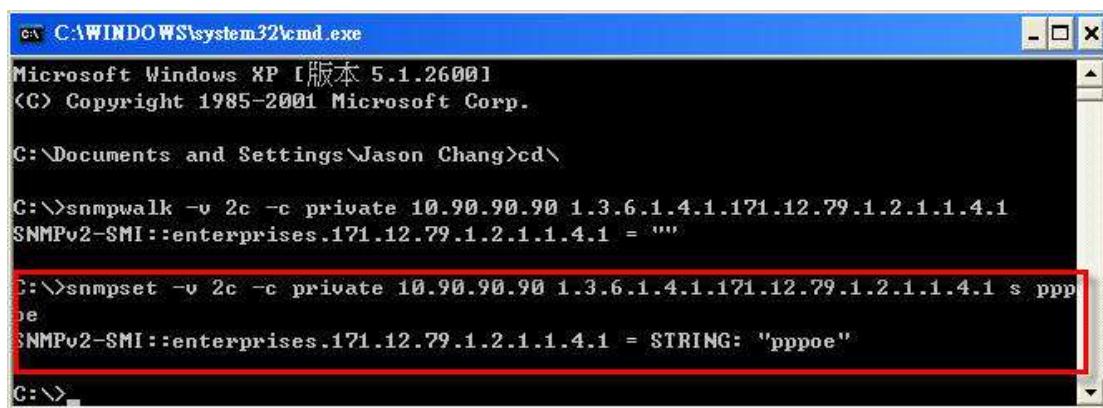
C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.3.1
SNMPv2-SMI::enterprises.171.12.79.1.2.1.1.3.1 = INTEGER: 1

C:\>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.3.1 i 3
SNMPv2-SMI::enterprises.171.12.79.1.2.1.1.3.1 = INTEGER: 3

C:\>
```

The last command, 'snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.3.1 i 3', is highlighted with a red rectangle.

Step4. Configure UDF string to be "pppoe".



A screenshot of a Windows XP Command Prompt window titled 'C:\WINDOWS\system32\cmd.exe'. The window shows the following text:

```
Microsoft Windows XP [版本 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Jason Chang>cd\

C:\>snmpwalk -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.4.1
SNMPv2-SMI::enterprises.171.12.79.1.2.1.1.4.1 = ""

C:\>snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.4.1 s pppoe
SNMPv2-SMI::enterprises.171.12.79.1.2.1.1.4.1 = STRING: "pppoe"

C:\>
```

The last command, 'snmpset -v 2c -c private 10.90.90.90 1.3.6.1.4.1.171.12.79.1.2.1.1.4.1 s pppoe', is highlighted with a red rectangle.