

The MIB location:

iso(1).org(3).dod(6).internet(1).private(4).enterprises(1).dlink(171).dlink-common-mgmt(12).
swERPSMIB(78)

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1: CLI

enable erps

disable erps

MIB OID:

swERPAdminState - Integer

Object name	swERPAdminState
Object ID	1.3.6.1.4.1.171.12.78.1.1
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSCtrl
First child	None
Description	This object indicates the ERPS state of the bridge.

2: CLI

config erps log [enable | disable]

MIB OID:

swERPLogState - Integer

Object name	swERPLogState
Object ID	1.3.6.1.4.1.171.12.78.1.2
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSCtrl
First child	None
Description	This object indicates the ERPS log state of the bridge.

3: CLI

config erps trap [enable | disable]

MIB OID:

swERPTrapState - Integer

Object name	swERPTrapState
Object ID	1.3.6.1.4.1.171.12.78.1.3
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSCtrl
First child	None
Description	This object indicates the ERPS trap state of the bridge.

4: CLI

create erps raps vlan <vlanid> not support via SNMP to create, Read-only OID

delete erps raps vlan <vlanid>

MIB OID:

swERPMgmtRAPSVlanId - Integer

Object name	swERPSMgmtRAPSVlanId
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.1
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	The RAPS VLAN is an index of the configuration.

5: CLI

config erps raps vlan <vlanid> ring mel <value 0-7>

MIB OID:

swERPMgmtRAPSRingMEL - Integer

Object name	swERPSMgmtRAPSRingMEL
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.9
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..7
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	The ring MEL is the maintenance entity group (MEG) level that provides communication channel for the ring automatic protection switching (RAPS) information.

6: CLI

config erps raps vlan <vlanid> ring port [west [<port> | virtual channel] | east [<port> | virtual channel]

MIB OID:

swERPMgmtRAPSWestPort - Integer

swERPMgmtRAPSEastPort - Integer

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Object name      swERPSMgmtRAPSWestPort
Object ID       1.3.6.1.4.1.171.12.78.3.1.1.2
Module          ERPS-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list      1 : 0..65535

Parent node     swERPSMgmtRAPSVlanEntry
First child     None
Description     This is one of the RPL owner ports.The RPL owner may block this port.
                The value 0 indicates the west port is a virtual channel.

```

```

Object name      swERPSMgmtRAPSEastPort
Object ID       1.3.6.1.4.1.171.12.78.3.1.1.4
Module          ERPS-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list      1 : 0..65535

Parent node     swERPSMgmtRAPSVlanEntry
First child     None
Description     This is the other RPL owner port.The RPL Owner may block this port.
                The value 0 indicates the west port is a virtual channel.

```

7: CLI

config erps raps vlan <vlanid> [rpl_port [west | east | none] | rpl_owner [enable | disable]

MIB OID:

swERPMgmtRAPSRPLPort - Integer

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Object name      swERPSMgmtRAPSRPLPort
Object ID       1.3.6.1.4.1.171.12.78.3.1.1.6
Module          ERPS-MIB

Base syntax     Integer
Composed syntax INTEGER
Access         Read-Write
Status         Current
Value list      1 : none(1)
                2 : west(2)
                3 : east(3)

Parent node     swERPSMgmtRAPSVlanEntry
First child     None
Description     When the port enable state is enabled, the RPL port's current port
                role is defined by the ERPS application.

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swERPMgmtRAPSRPLOwnerAdminState - Integer

Object name	swERPSMgmtRAPSRPLOwnerAdminState
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.7
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	The administrative value of the RPL owner state. The RPL owner is an Ethernet Ring Node adjacent to the RPL that is responsible for blocking its end of the RPL under normal conditions.

8: CLI

config erps raps vlan <vlanid> protected vlan [add | delete] vlanid <vidlist>

MIB OID:

swERPMgmtRAPSProtectionVlan - Octet String

Object name	swERPSMgmtRAPSProtectionVlan
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.8
Module	ERPS-MIB
Base syntax	Octet String
Composed syntax	VidList
Access	Read-Write
Status	Current
Value list	1 : 0..127
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	The protection VLAN has prevented a loop.

9: CLI

config erps raps vlan <vlanid> state [enable | disable]

MIB OID:

swERPMgmtRAPSRingAdminState - Integer

Object name	swERPSMgmtRAPSRingAdminState
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.14
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	This indicates the administrative state of the ring.

10: CLI

config erps raps vlan <vlanid> timer { holdoff time <millisecond 0-10000> | guard time <millisecond 10-2000 > | wtr time <min 5-12>}

MIB OID:

swERPmgmtRAPSHoldOffTime - Integer

swERPmgmtRAPSGuardTime - Integer

swERPmgmtRAPSWTRTime - Integer

Object name	swERPmgmtRAPSHoldOffTime
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.10
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 0..10000
Parent node	swERPmgmtRAPSVlanEntry
First child	None
Description	In order to coordinate timing of protection switches at multiple layers.

Object name	swERPmgmtRAPSGuardTime
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.11
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 10..2000
Parent node	swERPmgmtRAPSVlanEntry
First child	None
Description	This is used to prevent ring nodes from receiving outdated RAPS messages.

Object name	swERPmgmtRAPSWTRTime
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.12
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : 5..12
Parent node	swERPmgmtRAPSVlanEntry
First child	None
Description	In the revertive operation mode, this is used to prevent frequent operation of the protection switch due to an intermittent defect. A failed working transport entity must become stable in a fault-free state.

11: CLI

config erps raps vlan <vlanid> revertive [enable | disable]

MIB OID:

swERPMgmtRAPsRevertive - Integer

Object name	swERPSMgmtRAPsRevertive
Object ID	1.3.6.1.4.1.171.12.78.3.1.1.24
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : disable(1) 2 : enable(2)
Parent node	swERPSMgmtRAPSVlanEntry
First child	None
Description	The object indicates the revertive mode of a special ring. In none revertive mode, the traffic link is allowed to use the RPL, after recovering from a failure. In auto revertive mode, the traffic link is restored to the working transport link.

12: CLI

config erps raps vlan <vlanid> sub ring raps vlan <vlanid> tc propagation state [enable | disable]

MIB OID:

swERPMgmtSubRingCtrlTCPropagationState - Integer

Object name	swERPSMgmtSubRingCtrlTCPropagationState
Object ID	1.3.6.1.4.1.171.12.78.3.2.1.3
Module	ERPS-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	swERPSMgmtSubRingCtrlEntry
First child	None
Description	This indicates the state of the sub-ring topology change propagation.

13: CLI

config erps raps vlan <vlanid> [add | delete] sub ring raps vlan <vlanid>

MIB OID:

swERPMgmtSubRingCtrlSubRingRAPSVlanID - Integer

not support via SNMP to add or delete sub ring, Read-only OID

```
swERPSMgmtSubRingCtrlSubRingRAPSvlanId
1.3.6.1.4.1.171.12.78.3.2.1.2
ERPS-MIB
```

ntax

```
Integer
INTEGER
Not_Accessible
Current
```

```
swERPSMgmtSubRingCtrlEntry
```

```
None
```

```
This indicates the ring control VLAN-ID of the sub-ring which
connects to another ring.
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