

Appendix B - Trap Entries

The following table lists all possible trap log entries and their corresponding meanings that will appear in the switch.

802.1X

Trap Name	Description	OID
dDot1xExtLoggedSuccess	The trap is sent when a host has successfully logged in (passed 802.1X authentication). Binding objects: (1) ifIndex (2) dnaSessionClientMacAddress (3) dnaSessionAuthVlan (4) dnaSessionAuthUserName	1.3.6.1.4.1.17 1.14.30.0.1
dDot1xExtLoggedFail	The trap is sent when a host failed to pass 802.1X authentication (login failed). Binding objects: (1) ifIndex (2) dnaSessionClientMacAddress (3) dnaSessionAuthVlan (4) dnaSessionAuthUserName (5) dDot1xExtNotifyFailReason	1.3.6.1.4.1.17 1.14.30.0.2

Authentication Fail

Trap Name	Description	OID
authenticationFailure	An authenticationFailure trap signifies that the SNMPv2 entity, acting in an agent role, has received a protocol message that is not properly authenticated. While all implementations of the SNMPv2 must be capable of generating this trap, the snmpEnableAuthenTraps object indicates whether this trap will be generated.	1.3.6.1.6.3.1. 1.5.5

DDM

Trap Name	Description	OID
dDdmAlarmTrap	A notification is generated when an abnormal alarm situation occurs, or recovers from an abnormal alarm situation to normal status. Binding objects: (1) dDdmNotifyInfoIfIndex (2) dDdmNotifyInfoComponent (3) dDdmNotifyInfoAbnormalLevel (4) dDdmNotifyInfoThresholdExceedOrRecover	1.3.6.1.4.1.17 1.14.72.0.1
dDdmWarningTrap	A notification is generated when an abnormal	1.3.6.1.4.1.17

warning situation occurs, or recovers from an abnormal warning situation to normal status.	1.14.72.0.2
Binding objects:	
(1) dDdmNotifyInfoIndex,	
(2) dDdmNotifyInfoComponent	
(3) dDdmNotifyInfoAbnormalLevel	
(4) dDdmNotifyInfoThresholdExceedOrRecover	

DHCP Server Screen Prevention

Trap Name	Description	OID
dDhcpFilterAttackDetected	When DHCP Server Screen is enabled, if the switch received the forge DHCP Server packet, the switch will trap the event if any attacking packet is received. Binding objects: (1) dDhcpFilterLogBufServerIpAddr (2) dDhcpFilterLogBufClientMacAddr (3) dDhcpFilterLogBufferVlanId (4) dDhcpFilterLogBufferOccurTime	1.3.6.1.4.1.17 1.14.133.0.1

DOS Prevention

Trap Name	Description	OID
dDosPreveAttackDetectedPacket	The trap is sent when detect DOS attack. Binding objects: (1) dDoSPrevCtrlAttackType (2) dDosPrevNotiInfoDropIpAddr (3) dDosPrevNotiInfoDropPortNumber	1.3.6.1.4.1.17 1.14.59.0.2

ErrDisable

Trap Name	Description	OID
dErrDisNotifyPortDisabledAssert	The trap is sent when a port enters into error disabled state. Binding objects: (1) dErrDisNotifyInfoPortIfIndex (2) dErrDisNotifyInfoReasonID	1.3.6.1.4.1.17 1.14.45.0.1
dErrDisNotifyPortDisabledClear	The trap is sent when a port loop restarts after the interval time. Binding objects: (1) dErrDisNotifyInfoPortIfIndex (2) dErrDisNotifyInfoReasonID	1.3.6.1.4.1.17 1.14.45.0.2

General Management

Trap Name	Description	OID
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dGenMgmtLoginFail	This trap is sent when the user login failed to the switch. Binding objects: (1) dGenMgmtNotifyInfoLoginType (2) dGenMgmtNotifyInfoUserName	1.3.6.1.4.1.17 1.14.165.0.1
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Gratuitous ARP Function

Trap Name	Description	OID
agentGratuitousARPTrap	The trap is sent when IP address conflicted. Binding objects: (1) ipaddr (2) macaddr (3) portNumber (4) agentGratuitousARPInterfaceName	1.3.6.1.4.1.17 1.14.75.0.1

IMPB

Trap Name	Description	OID
dImpbViolationTrap	The address violation notification is generated when IP-MAC-Port Bindingaddress violation is detected. Binding objects: (1) ifIndex (2) dImpbViolationIpAddrType (3) dImpbViolationIpAddress (4) dImpbViolationMacAddress	1.3.6.1.4.1.17 1.14.22.0.1

LACP

Trap Name	Description	OID
linkUp	A linkUp trap signifies that the SNMP entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links left the down state and transitioned into some other state (but not into the notPresent state). This other state is indicated by the included value of ifOperStatus. Binding objects: (1) ifIndex, (2) if AdminStatus (3) ifOperStatu	1.3.6.1.6.3.1. 1.5.4
linkDown	A linkDown trap signifies that the SNMP entity, acting in an agent role, has detected that the ifOperStatus object for one of its communication links is about to enter the down state from some other state (but not from the notPresent state). This other state is indicated by the included value of ifOperStatus. Binding objects: (1) ifIndex,	1.3.6.1.6.3.1. 1.5.3

(2) if AdminStatus

(3) if OperStatu

LBD

Trap Name	Description	OID
dLbdLoopOccurred	his trap is sent when an interface loop occurs. Binding objects: (1) dLbdNotifyInfolIndex	1.3.6.1.4.1.17 1.14.46.0.1
dLbdLoopRestart	This trap is sent when an interface loop restarts after the interval time. Binding objects: (1) dLbdNotifyInfolIndex	1.3.6.1.4.1.17 1.14.46.0.2
dLbdVlanLoopOccurred	This trap is sent when an interface with a VID loop occurs. Binding objects: (1) dLbdNotifyInfolIndex (2) dLbdNotifyInfoVlanId	1.3.6.1.4.1.17 1.14.46.0.3
dLbdVlanLoopRestart	This trap is sent when an interface loop with a VID restarts after the interval time. Binding objects: (1) dLbdNotifyInfolIndex (2) dLbdNotifyInfoVlanId	1.3.6.1.4.1.17 1.14.46.0.4

LLDP

Trap Name	Description	OID
lldpRemTablesChange	A lldpRemTablesChange notification is sent when the value of lldpStatsRemTableLastChangeTime changes. It can be utilized by an NMS to trigger LLDP remote systems table maintenance polls. Binding objects: (1) lldpStatsRemTablesInserts (2) lldpStatsRemTablesDeletes (3) lldpStatsRemTablesDrops (4) lldpStatsRemTablesAgeouts	1.0.8802.1.1. 2.0.0.1
lldpXMedTopologyChangeDetected	A notification generated by the local device sensing a change in the topology that indicates that a new remote device attached to a local port, or a remote device disconnected or moved from one port to another. Binding objects: (1) lldpRemChassisIdSubtype (2) lldpRemChassisId (3) lldpXMedRemDeviceClass	1.0.8802.1.1. 2.1.5.4795.0. 1

MAC-based Access Control

Trap Name	Description	OID
dMacAuthLoggedSuccess	The trap is sent when a MAC-based Access Control host is successfully logged in. Binding objects: (1) ifIndex, (2) dnaSessionClientMacAddress (3) dnaSessionAuthVlan	1.3.6.1.4.1.17 1.14.153.0.1
dMacAuthLoggedFail	The trap is sent when a MAC-based Access Control host login fails. Binding objects: (1) ifIndex, (2) dnaSessionClientMacAddress (3) dnaSessionAuthVlan	1.3.6.1.4.1.17 1.14.153.0.2
dMacAuthLoggedAgesOut	The trap is sent when a MAC-based Access Control host ages out. Binding objects: (1) ifIndex, (2) dnaSessionClientMacAddress (3) dnaSessionAuthVlan	1.3.6.1.4.1.17 1.14.153.0.3

MAC-notification

Trap Name	Description	OID
dL2FdbMacNotificatio	This trap indicate the MAC addresses variation in the address table. Binding objects: (1) dL2FdbMacChangeNotifyInfo	1.3.6.1.4.1.17 1.14.3.0.1

MSTP

Trap Name	Description	OID
newRoot	The newRoot trap indicates that the sending agent has become the new root of the Spanning Tree; the trap is sent by a bridge soon after its election as the new root, e.g., upon expiration of the Topology Change Timer, immediately subsequent to its election. Implementation of this trap is optional.	1.3.6.1.2.1.17 .0.1
topologyChange	A topologyChange trap is sent by a bridge when any of its configured ports transitions from the Learning state to the Forwarding state, or from the Forwarding state to the Blocking state. The trap is not sent if a newRoot trap is sent for the same transition. Implementation of this trap is optional	1.3.6.1.2.1.17 .0.2

Peripheral

Trap Name	Description	OID
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dEntityExtPowerStatusChg	Power Status change notification. Binding objects: (1) dEntityExtEnvPowerUnitId (2) dEntityExtEnvPowerIndex (3) dEntityExtEnvPowerStatus	1.3.6.1.4.1.17 1.14.5.0.3
dEntityExtFanStatusChg	Fan status change notification. Binding objects: (1) dEntityExtEnvFanUnitId (2) dEntityExtEnvFanIndex (3) dEntityExtEnvFanStatus	1.3.6.1.4.1.17 1.14.5.0.1
dEntityExtThermalStatusChg	Temperature status change notification. Binding objects: (1) dEntityExtEnvTempUnitId (2) dEntityExtEnvTempIndex (3) dEntityExtEnvTempStatus	1.3.6.1.4.1.17 1.14.5.0.2
dEntityExtFactoryResetButton	Press factory reset button notification Binding objects: (1) dEntityExtUnitIndex	1.3.6.1.4.1.17 1.14.5.0.5

PoE

Trap Name	Description	OID
pethMainPowerUsageOnNotification	This trap indicates PSE Threshold usage indication is on, the usage power is above the threshold. At least 500 msec must elapse between notifications being emitted by the same object instance. Binding objects: (1) pethMainPseConsumptionPower	1.3.6.1.2.1.10 5.0.2
pethMainPowerUsageOffNotification	This trap indicates PSE Threshold usage indication is off, the usage power is below the threshold. At least 500 msec must elapse between notifications being emitted by the same object instance. Binding objects: (1) pethMainPseConsumptionPower	1.3.6.1.2.1.10 5.0.3
dPoelfPowerDeniedNotification	This Notification indicates if PSE state diagram enters the state POWER_DENIED. At least 500 msec must elapse between notifications being emitted by the same object instance. Binding objects: (1) pethPsePortPowerDeniedCounter	1.3.6.1.4.1.17 1.14.24.0.1
dPoelfPowerOverLoadNotification	This trap indicates if PSE state diagram enters the state ERROR_DELAY_OVER. At least 500 msec must elapse between notifications being emitted by the same object instance. Binding objects: (1) pethPsePortOverLoadCounter	1.3.6.1.4.1.17 1.14.24.0.2
dPoelfPowerShortCircuitNotification	This trap indicates if PSE state diagram enters the state ERROR_DELAY_SHORT. At least 500 msec	1.3.6.1.4.1.17 1.14.24.0.3

must elapse between notifications being emitted by the same object instance.

Binding objects:

(1) pethPsePortShortCounter

Port

Trap Name	Description	OID
linkUp	A notification is generated when port linkup. Binding objects: (1) ifIndex (2) if AdminStatus (3) ifOperStatu	1.3.6.1.6.3.1. 1.5.4
linkDown	A notification is generated when port linkdown. Binding objects: (1) ifIndex (2) if AdminStatus (3) ifOperStatu	1.3.6.1.6.3.1. 1.5.3

Port Security

Trap Name	Description	OID
dPortSecMacAddrViolation	When the port security trap is enabled, new MAC addresses that violate the pre-defined port security configuration will trigger trap messages to be sent out. Binding objects: (1) ifIndex (2) dPortSecIfCurrentStatus (3) dPortSecIfViolationMacAddress	1.3.6.1.4.1.17 1.14.8.0.1

RMON

Trap Name	Description	OID
risingAlarm	The SNMP trap that is generated when an alarm entry crosses its rising threshold and generates an event that is configured for sending SNMP traps. Binding objects: (1)alarmIndex (2)alarmVariable (3)alarmSampleType (4) alarmValue (5) alarmRisingThreshold	1.3.6.1.2.1.16 .0.1
fallingAlarm	The SNMP trap that is generated when an alarm entry crosses its falling threshold and generates an event that is configured for sending SNMP traps. Binding objects:	1.3.6.1.2.1.16 .0.2

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- (1)alarmIndex
 - (2) alarmVariable
 - (3)alarmSampleType
 - (4)alarmValue
 - (5) alarmFallingThreshold
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Safeguard

Trap Name	Description	OID
dSafeguardChgToExhausted	This trap indicates System change operation mode from normal to exhaust. Binding objects: (1) dSafeguardEngineCurrentMode	1.3.6.1.4.1.17 1.14.19.1.1.0. 1
dSafeguardChgToNormal	This trap indicates system change operation mode from exhausted to normal. Binding objects: (1) dSafeguardEngineCurrentMode	1.3.6.1.4.1.17 1.14.19.1.1.0. 2

Stack

Trap Name	Description	OID
dStackInsertNotification	Unit Hot Insert notification. Binding objects: (1) dStackNotifyInfoBoxId (2) dStackInfoMacAddr	1.3.6.1.4.1.17 1.14.9.0.1
dStackRemoveNotification	Unit Hot Remove notification. Binding objects: (1) dStackNotifyInfoBoxId (2) dStackInfoMacAddr	1.3.6.1.4.1.17 1.14.9.0.2
dStackFailureNotification	Unit Failure notification. Binding objects: (1) dStackNotifyInfoBoxId	1.3.6.1.4.1.17 1.14.9.0.3
dStackTPChangeNotification	The stacking topology change notification. Binding objects: (1) dStackNotifyInfoTopologyType (2) dStackNotifyInfoBoxId (3) dStackInfoMacAddr	1.3.6.1.4.1.17 1.14.9.0.4
dStackRoleChangeNotification	The stacking unit role change notification. Binding objects: (1) dStackNotifyInfoRoleChangeType (2) dStackNotifyInfoBoxId	1.3.6.1.4.1.17 1.14.9.0.5

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Trap Name	Description	OID
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swSinglePMSColdStart	The commander switch will send this notification when its member generates a cold start notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr	1.3.6.1.4.1.17 1.12.8.6.0.11
swSinglePMSWarmStart	The commander switch will send this notification when its member generates a warm start notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr	1.3.6.1.4.1.17 1.12.8.6.0.12
swSinglePMSLinkDown	The commander switch will send this notification when its member generates a link down notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr (3) ifIndex	1.3.6.1.4.1.17 1.12.8.6.0.13
swSinglePMSLinkUp	The commander switch will send this notification when its member generates a link up notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr (3) ifIndex	1.3.6.1.4.1.17 1.12.8.6.0.14
swSinglePMSAuthFail	The commander switch will send this notification when its member generates an authentication failure notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr	1.3.6.1.4.1.17 1.12.8.6.0.15
swSinglePMSnewRoot	The commander switch will send this notification when its member generates a new root notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr	1.3.6.1.4.1.17 1.12.8.6.0.16
swSinglePMSTopologyChange	The commander switch will send this notification when its member generates a topology change notification. Binding objects: (1) swSinglePMSID (2) swSinglePMSMacAddr	1.3.6.1.4.1.17 1.12.8.6.0.17

Start

Trap Name	Description	OID
coldStart	A coldStart trap signifies that the SNMPv2 entity, acting in an agent role, is reinitializing itself and that its configuration may have been altered.	1.3.6.1.6.3.1. 1.5.1
warmStart	A warmStart trap signifies that the SNMPv2 entity, acting in an agent role, is reinitializing itself such that	1.3.6.1.6.3.1. 1.5.2

its configuration is unaltered.

Storm Control

Trap Name	Description	OID
dStormCtrlOccurred	This trap is sent when dStormCtrlNotifyEnable is 'stormOccurred' or 'both' and a storm is detected. Binding objects: (1) ifIndex, (2) dStormCtrlNotifyTrafficType	1.3.6.1.4.1.17 1.14.25.0.1
dStormCtrlStormCleared	This trap is sent when dStormCtrlNotifyEnable is 'stormCleared' or 'both' and a storm is cleared. Binding objects: (1) ifIndex, (2) dStormCtrlNotifyTrafficType	1.3.6.1.4.1.17 1.14.25.0.2

Web-Authentication

Trap Name	Description	OID
dWebAuthLoggedSuccess	The trap is sent when a host has successfully logged in (passed Web-Authentication). Binding objects: (1) ifIndex (2) dnaSessionAuthVlan (3) dnaSessionClientMacAddress (4) dnaSessionClientAddrType (5) dnaSessionClientAddress (6) dnaSessionAuthUserName	1.3.6.1.4.1.17 1.14.154.0.1
dWebAuthLoggedFail	The trap is sent when a host has failed to pass Web-Authentication (login failed). Binding objects: (1) ifIndex (2) dnaSessionAuthVlan (3) dnaSessionClientMacAddress (4) dnaSessionClientAddrType (5) dnaSessionClientAddress (6) dnaSessionAuthUserName	1.3.6.1.4.1.17 1.14.154.0.2