



Appendix C: SNMP Notifications

The following tables lists the SNMP Notifications that can be sent to a defined NMS station:

NOTIFY-REQUEST SNMPv2c PDU

Field	Type	Value	Source
Version	Integer	[1]	SNMP v2
Community	String	[communityString]	As defined by the user in the Protocols/SNMP menu.
pduType	Integer	[166]	SNMP v2 -InformRequest-PDU
requestID	Integer 32	[reltRequestID]	1.3.6.1.4.1.5815.1.7.1.2.1.3 unique 32 bit ID
errorStatus	Integer	[0]	
errorIndex	Integer	[0]	

Variable Bindings

Field	Type	Value	Source
timeStamp	OID timeTicks	1.3.6.1.2.1.1.3.0 [sysUpTime]	SNMPv2-MIB::sysUpTime Elapsed time between the last re-boot/startup and the occurrence that caused this notification to be sent.



Field	Type	Value	Source
snmpTrapOID	OID	1.3.6.1.6.3.1.1.4.1.0	(SNMPv2-MIB::snmpTrapOID.0)
		[1.3.6.1.4.1.5815.1.1.2.0.1.0]	(OPTIMA-TLAN-MIB::oTAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.2.0]	(OPTIMA-TLAN-MIB::oTAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.3.0]	(OPTIMA-TLAN-MIB::oTNanalogInputAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.4.0]	(OPTIMA-TLAN-MIB::oTNanalogInputAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.5.0]	(OPTIMA-TLAN-MIB::oTNcontactInputAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.6.0]	(OPTIMA-TLAN-MIB::oTNcontactInputAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.7.0]	(OPTIMA-TLAN-MIB::oTNrelayAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.8.0]	(OPTIMA-TLAN-MIB::oTNrelayAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.9.0]	(OPTIMA-TLAN-MIB::oTNthermalAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.10.0]	(OPTIMA-TLAN-MIB::oTNthermalAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.11.0]	(OPTIMA-TLAN-MIB::oTNIPDigitalOutAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.12.0]	(OPTIMA-TLAN-MIB::oTNIPDigitalOutAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.13.0]	(OPTIMA-TLAN-MIB::oTNtBOSAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.14.0]	(OPTIMA-TLAN-MIB::oTNtBOSAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.15.0]	(OPTIMA-TLAN-MIB::oTNpercentileAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.16.0]	(OPTIMA-TLAN-MIB::oTNpercentileAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.17.0]	(OPTIMA-TLAN-MIB::oTNSpeedSensorAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.18.0]	(OPTIMA-TLAN-MIB::oTNSpeedSensorAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.19.0]	(OPTIMA-TLAN-MIB::oTNdirectionalSensorAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.20.0]	(OPTIMA-TLAN-MIB::oTNdirectionalSensorAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.21.0]	(OPTIMA-TLAN-MIB::oTNtimerAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.22.0]	(OPTIMA-TLAN-MIB::oTNtimerAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.23.0]	(OPTIMA-TLAN-MIB::oTNcounterAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.24.0]	(OPTIMA-TLAN-MIB::oTNcounterAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.25.0]	(OPTIMA-TLAN-MIB::oTNfrequencyAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.26.0]	(OPTIMA-TLAN-MIB::oTNfrequencyAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.27.0]	(OPTIMA-TLAN-MIB::oTNanalogInEnhAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.28.0]	(OPTIMA-TLAN-MIB::oTNanalogInEnhAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.29.0]	(OPTIMA-TLAN-MIB::oTNanalogInHRAAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.30.0]	(OPTIMA-TLAN-MIB::oTNanalogInHRAAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.31.0]	(OPTIMA-TLAN-MIB::oTNserialPortAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.32.0]	(OPTIMA-TLAN-MIB::oTNserialPortAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.33.0]	(OPTIMA-TLAN-MIB::oTNoneWireAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.34.0]	(OPTIMA-TLAN-MIB::oTNoneWireAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.35.0]	(OPTIMA-TLAN-MIB::oTNcurrentLoopAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.36.0]	(OPTIMA-TLAN-MIB::oTNcurrentLoopAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.37.0]	(OPTIMA-TLAN-MIB::oTNnodeAlarmRaised)
		[1.3.6.1.4.1.5815.1.1.2.0.38.0]	(OPTIMA-TLAN-MIB::oTNnodeAlarmCleared)
		[1.3.6.1.4.1.5815.1.1.2.0.39.0]	(OPTIMA-TLAN-MIB::oTNalarmSuppressionRaised)
[1.3.6.1.4.1.5815.1.1.2.0.40.0]	(OPTIMA-TLAN-MIB::oTNalarmSuppressionCleared)		
sysLocation	OID	1.3.6.1.2.1.1.6.0	(SNMPv2-MIB::sysLocation.0)
	String	[sysLocation, max 30 chars]	As defined by the user in the T:LAN GENERAL SYSTEM PARAMETERS menu.
sysName	OID	1.3.6.1.2.1.1.5.0	(SNMPv2-MIB::sysName.0)
	String	[sysName, max 30 chars]	As defined by the user in the T:LAN GENERAL SYSTEM PARAMETERS menu.



Field	Type	Value	Source																																												
reltDateAndTime	OID DateAnd- Time	1.3.6.1.4.1.5815.1.7.1.2.1.2 [CCYY-MM-DD,hh:mm:ss.z,±hh:mm]	<p>Marks the exact local time of the occurrence that caused this notification to be sent.</p> <p>reltDateAndTime follows the standard DateAndTime Textual Convention which is defined in the SNMPv2-TC. DateAndTime is resolved to base data type OCTET STRING. The DISPLAY-HINT format for DataAndTime is given as follows:</p> <p>DISPLAY-HINT "2d-1d-1d,1d:1d:1d,1a1d:1d"</p> <p>The reltDateAndTime specification:</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Octets</th> <th>Contents</th> <th>Range</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1-2</td> <td>year</td> <td>0..65536</td> </tr> <tr> <td>2</td> <td>3</td> <td>month</td> <td>1..12</td> </tr> <tr> <td>3</td> <td>4</td> <td>day</td> <td>1..31</td> </tr> <tr> <td>4</td> <td>5</td> <td>hour</td> <td>0..23</td> </tr> <tr> <td>5</td> <td>6</td> <td>minutes</td> <td>0..59</td> </tr> <tr> <td>6</td> <td>7</td> <td>seconds</td> <td>0..60 (60=leap-second)</td> </tr> <tr> <td>7</td> <td>8</td> <td>n x 1/10th s</td> <td>0..9</td> </tr> <tr> <td>8</td> <td>9</td> <td>UTC direction</td> <td>'+'/'-'</td> </tr> <tr> <td>9</td> <td>10</td> <td>hours from UTC</td> <td>0..13</td> </tr> <tr> <td>10</td> <td>11</td> <td>min from UTC</td> <td>0..59</td> </tr> </tbody> </table> <p>NOTE: The value of year is in network-byte order.</p>	Field	Octets	Contents	Range	1	1-2	year	0..65536	2	3	month	1..12	3	4	day	1..31	4	5	hour	0..23	5	6	minutes	0..59	6	7	seconds	0..60 (60=leap-second)	7	8	n x 1/10th s	0..9	8	9	UTC direction	'+'/'-'	9	10	hours from UTC	0..13	10	11	min from UTC	0..59
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reltNodeID	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.5 [reltNodeID] rioNode0 rioNode1 rioNode2 rioNode3	<p>Index of the node that caused this notification.</p> <p>(0) (1) (2) (3)</p>																																												
reltNodeName	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.11 [reltNodeName, max 30 chars]	Label of the Node that caused this notification.																																												



Field	Type	Value	Source
reltIOType	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.6 [reltIOType] iotypeAnalogInputThreshold iotypeAnalogInputWindow iotypeContactInputNormallyOpen iotypeContactInputNormallyClosed iotypeRelayNormallyOpen iotypeRelayNormallyClosed iotypeThermoSensor iotypeLowPowerDigitalOut iotypeTBOSAlarmStatusPoint iotypeTBOSControlPoint iotypePercentileSensor iotypeSpeedSensor iotypeDirectionalSensor iotypeTimer iotypeCounter iotypeFrequency iotypeAnalogInputEnh iotypeAnalogInputHR iotypeSerialPort iotypeOneWireSensor iotypeCurrentLoop iotypeNode	Identifies the type of resource that caused this notification. (1) reports in units, uses reltIOValue, range varies (2) reports in units, uses reltIOValue, range varies (3) reports discrete state (open/closed) (4) reports discrete state (open/closed) (5) reports discrete state (open/closed) (6) reports discrete state (open/closed) (7) reports in degrees Celsius, uses reltIOValue, range varies (8) reports discrete state (low/high) (9) reports discrete state (low/high) (10) reports discrete state (low/high) (11) reports in percent, uses reltIOValue, range 0-100% (12) reports in m/s, uses reltIOValue, range varies (13) reports in degrees, uses reltIOValue, range 0-360 (14) reports in ms, uses reltIOValue, range varies (15) reports in units, uses reltIOValue, range varies (16) reports in Hz, uses reltIOValue, range varies (17) reports in units, uses reltIOValue, range varies (18) reports in units, uses reltIOValue, range varies (19) reports discrete state (open/closed) (20) reports in degrees Celsius, uses reltIOValue, range varies (21) reports in units, uses reltIOValue, range varies (22) reports discrete state (norm/fail)
reltTBOSPort	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.14 [reltTBOSPort] tbosPortNA tbosPort1 tbosPort2 tbosPort3 tbosPort4	Index of the TBOS port that caused this notification. (0) (1) (2) (3) (4) NOTE: Only present for TBOS related notifications.
reltTBOSDisplay	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.15 [reltTBOSDisplay] tbosDisplayNA tbosDisplay1 tbosDisplay2 tbosDisplay3 tbosDisplay4 tbosDisplay5 tbosDisplay6 tbosDisplay7 tbosDisplay8	Index of the TBOS display that caused this notification. (0) (1) (2) (3) (4) (5) (6) (7) (8) NOTE: Only present for TBOS related notifications.



Field	Type	Value	Source
reltTBOSEquipment	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.16 [reltTBOSEquipment, max 25 chars]	TBOS Equipment name of the resource that caused this notification. NOTE: <i>Only present for TBOS related notifications.</i>
reltBOSLabel	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.17 [reltBOSLabel, max 25 chars]	TBOS Display label of the resource that caused this notification. NOTE: <i>Only present for TBOS related notifications.</i>
reltIOIndex	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.7 [reltIOIndex]	Index of the resource within the type group that caused this notification.
reltIOLabel	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.8 [reltIOLabel, max 48 chars]	Label of the resource that caused this notification.
reltIOSev	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.9 [reltIOSev] UNKN NORM INFO WARN MIN1 MIN2 MIN3 MIN4 MIN5 MIN6 MIN7 MIN8 MIN9 MAJ1 MAJ2 MAJ3 MAJ4 MAJ5 MAJ6 MAJ7 MAJ8 MAJ9 CRI1 CRI2 CRI3 CRI4 CRI5 CRI6 CRI7 CRI8 CRI9 FAIL	Severity level assigned to the resource that caused this notification. (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32)



Field	Type	Value	Source
reltIOMappedSev	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.12 [reltIOMappedSev]	Mapped Severity Level for the resource that caused this notification. User assigned value allows severity remapping to accommodate custom severity level requirements. Range: 0-99
reltIOStatus	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.10 [reltIOStatus, max 32 chars]	Status of the resource that caused this notification. (Examples: LOW/HIGH, OPEN/CLOSED, NORMAL/TRIP, NORMAL/FAIL)
reltIOValue	OID String	1.3.6.1.4.1.5815.1.7.1.2.1.13 [reltIOValue, max 32 chars]	Value of the resource at the time the notification was triggered. In human readable form. NOTE: Used for non-discrete state reporting.
snmpTrapEnterprise	OID OID	1.3.1.6.3.1.1.4.3.0 [1.3.6.1.4.1.5815]	(SNMPv2-MIB::snmpTrapEnterprise.0) (enterprises::optimaTelecom)

Starting with BN7241, the following varbinds have been added:

Field	Type	Value	Source
reltEventType	OID Integer	1.3.6.1.4.1.5815.1.7.1.2.1.4 [reltEventType] Alarm Level Lowered/Clear Alarm Level Raised/Alarm	Specifies the type of event recorded (1) (2)
ipAdEntAddr	OID IP Address	1.3.6.1.2.1.4.20.1.1.x.x.x.x [x.x.x.x]	(ip-mib::ipAdEntAddr.x.x.x.x) Specifies the originator IPv4 address x.x.x.x = IP address

Starting with BN7370, the following varbinds have been added:

Field	Type	Value	Source
ipNetTo-MediaPhysAddress	OID MAC Address	1.3.6.1.2.1.4.20.1.1.Y.x.x.x.x [xx-xx-xx-xx-xx-xx]	(ip-mib::ipNetToMediaPhysAddress.Y.x.x.x.x) Specifies the originator MAC address Y = interface index x.x.x.x = IP address xx-xx-xx-xx-xx = MAC address