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**Technical Bulletin
SC 370 SNMP Trap Interface**

Document Revision History

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Vanguard (v3.5.1) SNMP V2c INFORM TRAPs

Vanguard supports SNMP V2c INFORM TRAPs to notify SNMP managers of field events. The default retry for any INFORM that is not acknowledged within 20 minutes is to resend every 20 minutes until it is acknowledged; up to 24 hours. These values can be adjusted in the SNMP configuration settings. SNMP TRAPs do not require acknowledgement. This document describes the default severities for INFORMs. The severity setting and name for all INFORMs is configurable via the Vanguard web interface or SNMP sets.

Vanguard SNMP INFORM TRAPs Default Severities

Critical

INFORMs, whose default severity setting is set to Critical, are those which indicate a NOTAM worthy event. The set of Critical INFORMs would be the minimum set required to handle to ensure proper monitoring.

See Table 1-1 for a list of Critical INFORMs and their descriptions.

Warning

INFORMs, whose default severity setting is set to Warning, are those which indicate maintenance is needed on a component of the lighting system, but would not necessarily require a NOTAM. In some situations these INFORMs may be as important as the Critical events and in others they may not.

See Table 1-2 for a list of Warning INFORMs and their descriptions.

Info

INFORMs, whose default severity setting is set to 'Info', do not indicate NOTAM worthy events; although some of them may accompany the Critical INFORMs as additional diagnostic information.

See Table 1-3 for a list of Informational INFORMs and their descriptions.

Table 1-1 – Critical INFORMs

Name	Default Severity	Description	OID
whiteDayAlarmNotify	Critical	White Day Alarm (DAY ALARM): The connected flash head is exhibiting a white day alarm.	.1.3.6.1.4.1.9882.1.2.1.1.1
whiteNightAlarmNotify	Critical	White Night Alarm (WNIGHT ALARM): The connected flash head is exhibiting a white night alarm.	.1.3.6.1.4.1.9882.1.2.1.1.2
redNightAlarmNotify	Critical	Red Night Alarm (RNIGHT ALARM): The connected flash head is exhibiting a red night alarm.	.1.3.6.1.4.1.9882.1.2.1.1.3
beaconCommunicationAlarmNotify	Critical	Beacon Communication Alarm (BCN COMM): The SC 370X is experiencing a communications failure with the connected flash head.	.1.3.6.1.4.1.9882.1.2.1.1.4
photodiodeAlarmNotify	Critical	Photodiode Alarm (PD ALARM): System 1 Only. More than 19 hours have passed since the system has changed modes via the photodiode input.	.1.3.6.1.4.1.9882.1.2.1.1.5
systemPowerFailureAlarmNotify	Critical	System Power Failure Alarm (POWER FAIL): System 1 only. Primary input power failure. PCB 1 is operating on battery backup to provide alarm INFORM.	.1.3.6.1.4.1.9882.1.2.1.1.11
towerLightingConfigurationAlarmNotify	Critical	Tower Lighting Configuration Alarm (CFG ALARM): Indicates that the system is detecting devices that it is currently not configured to support. For Example 3 Beacons are detected but the site is configured for 2.	.1.3.6.1.4.1.9882.1.2.1.1.17
towerLightingSyncAlarmNotify	Critical	Tower Lighting Sync Alarm (TWR SYNC): System 1 only. One or more subordinate units have not synchronized with System 1 for a period of one hour or more.	.1.3.6.1.4.1.9882.1.2.1.1.20
plcBindingsAlarmNotify	Critical	PLC Bindings Alarm (BIND ALARM): System 1 only. The BIND ALARM can be generated by either of the following conditions: <ul style="list-style-type: none"> • One or more controllers are not bound correctly. A 'SYS COMM' alarm will accompany the 'BIND ALARM'. • Two or more controllers are bound to the same connected equipment (beacon or marker tier). A 'SYS COMM' alarm will not accompany the 'BIND ALARM' in this instance. The most noticeable symptom is a beacon that is not flashing in 'Sync.' with the rest of the system. This alarm can be corrected by unbinding then binding the tower. 	.1.3.6.1.4.1.9882.1.2.1.1.21

Table 1-2 – Warning INFORMs

Name	Default Severity	Description	OID
infraredAlarmNotify	Warning	Infrared Alarm (IR ALARM): The connected flash head is exhibiting an IR alarm.	.1.3.6.1.4.1.9882.1.2.1.1.27
systemGPSSyncAlarmNotify	Warning	System GPS Sync Alarm (GPS ALARM): System 1 only. GPS synchronization has not occurred for a period of one hour or more. Possible causes are: <ul style="list-style-type: none"> •GPS antenna is obstructed or does not have a clear view of the sky. •GPS antenna failure. Check GPS status LEDs located on PCB 3 for 'short' or 'open' indication. • GPS receiver fault • PCB 3 failure. 	.1.3.6.1.4.1.9882.1.2.1.1.7
infraredNotAvailableAlarmNotify	Warning	Infrared Not Available Alarm (IR N/A): IR (Infrared) is not available or supported by the attached flashhead	.1.3.6.1.4.1.9882.1.2.1.1.28
markerTierCommunicationAlarmNotify	Warning	Marker Tier Communication Alarm (MKR COMM): The SC 370X is experiencing a communications failure with the connected marker interface PCB.	.1.3.6.1.4.1.9882.1.2.1.1.23
markerAlarmNotify	Warning	Marker Alarm (MKR ALARM): The connected marker interface PCB is reporting failure of one or more markers. The exact marker(s) which have faulted are included in the INFORM.	.1.3.6.1.4.1.9882.1.2.1.1.24

Table 1-3 – Informational INFORMS

Name	Default Severity	Description	OID
systemCommunicationAlarmNotify	Info	System Communication Alarm (SYS COMM): General communications failure indication. Any communication failure in the system will generate a SYS COMM failure on System 1. The SYS COMM alarm will be accompanied by a specific communication alarm if the failure is local to System 1. Absence of a specific communication failure on System 1 indicates a communication failure on a subordinate unit (System 2-6). A communication failure on any subordinate unit will be accompanied by a SYS COMM alarm.	.1.3.6.1.4.1.9882.1.2.1.1.6
lightingInspectionTestModeNotify	Info	Lighting Inspection Test Mode (LI TEST MODE): Indicates that System 1 is conducting a Lighting Inspection test on the system.	.1.3.6.1.4.1.9882.1.2.1.1.8
systemVoltageHighNotify	Info	System Voltage High INFORM: The tower voltage is higher than normal. This only applies to the primary lighting system (System 1).	.1.3.6.1.4.1.9882.1.2.1.1.9
systemVoltageLowNotify	Info	System Voltage Low INFORM: The tower voltage is lower than normal. This only applies to the primary lighting system (System 1).	.1.3.6.1.4.1.9882.1.2.1.1.10
siteModeOverrideNotify	Info	Site Mode Override INFORM: The site tower lighting mode has been overridden.	.1.3.6.1.4.1.9882.1.2.1.1.12
communicationChangeNotify	Info	Communication Change INFORM: The System 1 controller has lost or regained communication with a flash head, marker tier, or another system controller.	.1.3.6.1.4.1.9882.1.2.1.1.13
automaticUpdateNotify	Info	Automatic Update INFORM: A INFORM which is sent based on a configured time interval.	.1.3.6.1.4.1.9882.1.2.1.1.14
populationChangeNotify	Info	Population Change INFORM: The System 1 Controller has detected a change in the number of system controllers connected to it via RS485.	.1.3.6.1.4.1.9882.1.2.1.1.15
lowTowerLightingDCVoltageAlarmNotify	Info	Low Tower Lighting DC Voltage Alarm (LOW DC): Output voltage (60 VDC) to the connected flash head and marker tier (if present) is low.	.1.3.6.1.4.1.9882.1.2.1.1.19
photodiodeModeChangeNotify	Info	Photodiode Mode Change INFORM: The photodiode mode has changed. This is not an alarm. 0) Day 1) Night	.1.3.6.1.4.1.9882.1.2.1.1.22
coldStart	Info	Sent when the SNMP agent starts up.	.1.3.6.1.6.3.1.1.5.1
flashTechnologyRoot.0.2	Info	Sent just before the SNMP agent is shutdown or restarted.	.1.3.6.1.4.1.9882.0.2