



APPENDIX **A**

Trap Definitions

Cisco VAMS 3.1 supports traps (alarms) for:

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- [Cisco 7600, Catalyst 6500, CRS-1, and Catalyst 4948 Devices, page A-4](#)
- [Bridge Technologies Video Probe, page A-4](#)
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- [Mixed Signals Video Probe, page A-6](#)

CMM

| Alarm Message Text ¹ | Severity |
|---|-------------|
| The Layer 3 multicast bandwidth percentage on an interface has exceeded the percentage threshold. | Minor |
| The designated router for an interface has been detected. | Warning |
| One or more parameters of a multicast route entry has changed. | Warning |
| The rendezvous point did not respond to a <i>sysUpTime</i> poll. | Information |
| The Layer 3 multicast b/s rate for a (source, group) has exceeded the high b/s rate threshold. | Minor |
| The application has rediscovered a router. | Information |
| The rendezvous point responded to a <i>sysUpTime</i> poll. | Information |
| The designated router for an interface has been removed. | Major |
| That a health check has detected one or more failures. | Minor |
| The Layer 3 multicast bandwidth percentage on an interface has exceeded the percentage threshold. | Information |
| The Layer 3 multicast Reverse Path Forwarding (RPF) failures for a (source, group) that is now being measured at a value above the low threshold. | Minor |
| The unicast or multicast routing table has changed compared to the initial baseline. | Information |
| The video probe media loss rate (MLR) for a video flow has exceeded the configured threshold. | Major |

| Alarm Message Text¹ (continued) | Severity |
|--|-----------------|
| The multicast group limit exceeded the configured threshold on the rendezvous point. | Minor |
| A Layer 2 port multicast p/s low threshold is exceeded. | Minor |
| The Layer 3 multicast b/s rate for a (source, group) has exceeded the low b/s rate threshold. | Minor |
| A rendezvous point that did not respond to a poll. | Information |
| The Layer 3 multicast p/s rate for a (source, group) has exceeded the set threshold when measured between the routers on a multicast forwarding tree. | Warning |
| A (source, group) no longer exists on the router. | Major |
| One or more parameters of a unicast route entry has changed. | Information |
| A multicast forwarding tree that has reverted to its baseline. | Warning |
| The Layer 3 multicast b/s rate for a (source, group) has exceeded the high b/s rate threshold. | Cleared |
| The multicast p/s rate for the aggregate multicast traffic on a Layer 2 port, which is now being measured at a value between the high and low p/s rate thresholds. | Cleared |
| A (source, group) has been removed from the rendezvous point since the poll. | Major |
| Notification that the video probe delay factor (DF) for a video flow has exceeded the configured threshold. | Major |
| A (source, group) has been added to the rendezvous point since the last poll. | Information |
| A Layer 2 port multicast p/s high threshold is exceeded. | Minor |
| The multicast bandwidth percentage for the aggregate multicast traffic on an interface is now at a value lower than the high threshold. | Cleared |
| The Layer 3 multicast p/s rate for a (source, group) that is now being measured at a value between the high and low p/s rate thresholds. | Cleared |
| A multicast group that has more than a single source sending to it. | Major |
| A multicast forwarding tree that has changed from its baseline. | Critical |
| The Layer 3 multicast p/s rate for a (source, group) has exceeded the high p/s rate threshold. | Minor |
| The Layer 3 multicast p/s rate for a (source, group) has exceeded the low p/s rate threshold. | Minor |
| The designated router for an interface has changed. | Warning |
| A multicast sender on the default multicast distribution tree (MDT) for a particular VPN routing/forwarding (VRF) instance has been removed. | Warning |
| A VRF on a multicast VPN (MVPN) Provider Edge (PE) router has been removed. | Warning |
| A default MDT address for a VRF has been configured on a PE that does not match the configuration on the rest of the PEs. | Warning |
| The number interfaces associated with a VRF on an MVPN PE has changed. | Warning |
| A VRF on an MVPN PE has been added. | Warning |
| A new multicast sender on the default MDT for a particular VRF has been detected. | Warning |
| The number of VRFs configured on an MVPN PE has changed. | Warning |

1. See the Glossary for abbreviations used in alarm message text.

ROSA NMS Events

| Alarm Message Text ¹ | Severity |
|---|----------|
| <p>Service Loss, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>., Service <i>z</i>: <i>sssss</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, <i>z</i> represents the service number, and <i>sssss</i> represents the UDP port number.</p> | Major |
| <p>Service Loss at output, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>., Service <i>z</i>: <i>sssss</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, <i>z</i> represents the service number, and <i>sssss</i> represents the UDP port number.</p> | Major |
| <p>Service in Backup (Service Loss), Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>., Service <i>z</i>: <i>sssss</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, <i>z</i> represents the service number, and <i>sssss</i> represents the UDP port number.</p> | Major |
| <p>PID Error, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>:<i>sssss</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, and <i>sssss</i> represents the UDP port number.</p> | Major |
| <p>TS Loss, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>., Service <i>z</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, and <i>z</i> represents the service number.</p> | Major |
| <p>UDP Stream Loss, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>:<i>sssss</i>, Service <i>z</i></p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, <i>sssss</i> represents the UDP port number, and <i>z</i> represents the service number</p> | Major |
| <p>CC Error, Board <i>xx</i>, Port <i>yy</i>, TS <i>nnn.nnn.nnn.nnn</i>:<i>sssss</i>,</p> <p>where <i>xx</i> represents the board number, <i>yy</i> represents the port number, <i>nnn.nnn.nnn.nnn</i> indicates the IP multicast address for the Transport Stream, and <i>sssss</i> represents the UDP port number.</p> | Major |

1. See the Glossary for abbreviations used in alarm message text.

Cisco 7600, Catalyst 6500, CRS-1, and Catalyst 4948 Devices

| Alarm Text Message ¹ | Severity |
|---|-------------|
| PIM Neighbor loss | Major |
| PIM Interface down | Major |
| PIM Interface up | Clear |
| The number of multicast routes changed. | Information |
| The number of non-RPF drops exceeded threshold. | Minor |

1. See the Glossary for abbreviations used in alarm message text.

Bridge Technologies Video Probe

Ethernet Alarms

| Alarm Message Text ¹ | Severity |
|--|----------|
| No signal: There has been no UDP packet for the predefined period of time (default 1 second) | Major |
| RTP duplicates: Number of duplicate IP packets (only if RTP) | Warning |
| RTP packet drop: Number of dropped IP packets (only if RTP headers are present) | Error |
| RTP out of order: Out-of-order IP-packet detections (requires RTP) | Warning |
| CC skips: Number of lost Transport Stream packets | Warning |
| MDI-DF >= err-thresh: The MDI Delay Factor exceeds the error-threshold | Error |
| MDI-DF >= warn-thresh: The MDI Delay Factor exceeds the warning-threshold | Warning |
| MDI-MLR >= err-thresh: The MDI Media Loss Rate exceeds the error-threshold | Error |
| MDI-MLR >= warn-thresh: The MDI Media Loss Rate exceeds the warning-threshold | Warning |
| TTL changed: The Time-to-Live field is changing | Error |
| TOS changed: The Type-Of-Service field is changing | Error |
| Multiple mcast sources: There are multiple multicast sources | Error |

1. See [Glossary](#) for abbreviations used in alarm message text.

ETR (290) Alarms

| Alarm Message Text ¹ | Severity |
|-------------------------------------|----------|
| TS Sync: No TS Sync | Major |
| Sync byte: Sync byte error | Major |
| PAT: Program Allocation Table error | Major |

| | |
|--|-------|
| Continuity: Continuity counter error | Major |
| PMT: Program Map Table error | Major |
| PID: Pid is missing | Major |
| Transport: Transport stream error indicator is set | Major |
| CRC: Table checksum error | Major |
| PCR: Program Map table error | Major |
| PCR accuracy | Major |
| PTS: Presentation Time Stamp error | Major |
| CAT: Conditional Access Table error | Major |
| NIT: Network Information Table error | Major |
| SI Rep Rate: Wrong repetition rate for SI table | Major |
| Buffer: Buffer error | Major |
| Unref PID: Pid is unreferenced | Major |
| SDT: Service Description Table error | Major |
| EIT: Event Information Table error | Major |
| RST: Running Status Table error | Major |
| TDT: Time Data Table error | Major |
| CA System: CA System error | Major |
| Pid checks: Pid check error | Major |
| Service checks: Service check error | Major |
| Interface checks: Input interface error | Major |

1. See [Glossary](#) for abbreviations used in alarm message text.

SYS (System) Events

| Alarm Message Text ¹ | Severity |
|--|----------|
| Critical system errors: Enable this to view all critical system errors | Fatal |
| System errors: Enable this to view all system errors | Major |
| System info: Enable this to view system information messages | OK |

1. See [Glossary](#) for abbreviations used in alarm message text.

IneoQuest Video Probe

| Alarm Message Text ¹ | Severity |
|--|-------------|
| The network utilization on the primary port exceeds the threshold value. | Minor |
| User feedback event. | Information |
| The delay factor threshold crossover is detected. | Minor |

| Alarm Message Text ¹ (continued) | Severity |
|---|-------------|
| A stream was lost for a period defined in the outage. | Major |
| A 15-minute monitored metric threshold crossover is detected. | Information |
| The Bit-Rate for a stream exceeds the threshold value. | Warning |
| The maximum RTP media loss period threshold crossover is detected. | Minor |
| A system fault condition occurred. | Minor |
| Software or config download. | Information |
| This trap is sent when link is lost. | Major |
| This event is sent every 15-Min to indicate the completion of an interval of system statistics. | Information |
| The PID bitrate threshold is crossed for a PID selected from the video characteristic template. | Minor |
| This trap is sent when the media loss threshold crossover is detected. | Minor |
| The minimum loss distance threshold crossover is detected. | Minor |
| The media loss threshold crossover is detected. | Minor |
| The multicast IGMP join time threshold crossover is detected. | Information |
| The stream alarms limit is reached for a 15-Minute period. | Information |
| The media link is established. | Information |
| A new flow has been detected by the system. | Information |
| The bit rate for a stream exceeds the threshold value. | Minor |
| A stream was lost for a period defined in the outage. | Major |
| The Minimum Bit-Rate threshold is crossed. | Warning |
| The ZAP time threshold crossover is detected. | Information |

1. See [Glossary](#) for abbreviations used in alarm message text.

Mixed Signals Video Probe

| Alarm Message Text ¹ | Severity |
|---------------------------------|----------|
| Table bit rate | Warning |
| Table detect | Warning |
| Table cycle time | Warning |
| PID bit rate | Warning |
| PID detect | Warning |
| PID discontinuity | Minor |
| PID audio silence | Minor |
| PID video freeze | Minor |
| PID table bit rate | Warning |
| PID table detect | Warning |

| Alarm Message Text ¹ (continued) | Severity |
|--|-----------------|
| PID table cycle time | Warning |
| Program bit rate | Warning |
| Program detect | Warning |
| Program discontinuity | Warning |
| Program audio silence | Warning |
| Program video freeze | Warning |
| Program PCR interval | Warning |
| Program PCR jitter | Warning |
| Program table PMT bit rate | Warning |
| Program table PMT detect | Warning |
| Program table PMT cycle time | Warning |
| DSM-CC DII bit rate | Warning |
| DSM-CC DII detect | Warning |
| DSM-CC DII cycle time | Warning |
| DSM-CC DC bit rate | Warning |
| DSM-CC DC detect | Warning |
| DSM-CC DC cycle time | Warning |
| Carousel bit rate | Warning |
| Carousel source file add-delete | Warning |
| Carousel source DSM-CC DII bit rate | Warning |
| Carousel source DSM-CC DII detect | Warning |
| Carousel source DSM-CC DII cycle time | Warning |
| Carousel source DSM-CC DC bit rate | Warning |
| Carousel source DSM-CC DC detect | Warning |
| Carousel source DSM-CC DC cycle time | Warning |
| Carousel file bit rate | Warning |
| Carousel file detect | Warning |
| Carousel file cycle time | Warning |
| Carousel file change | Warning |
| Port IP arrival interval | Warning |
| Port delay factor | Warning |

1. See [Glossary](#) for abbreviations used in alarm message text.

