BreezeACCESS® VL, BreezeACCESS® 4900, AU-EZ and BreezeNET® B

Traps

Software Version: 5.5M
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Disposal of Electronic and Electrical Waste

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1. Introduction

The SNMP agents incorporated in BreezeACCESS VL, BreezeACCESS 4900, BreezeNET B and BreezeACCESS EZ use the same private MIB and traps. In a BreezeACCESS VL/4900 system traps are generated and sent by the AU: relevant events in an SU are reported by the SU to the serving AU that generates the applicable trap on behalf of the SU. Similarly, in a BreezeNET B link, the BU generates traps for all relevant events in the connected RB. In the current release, events in SU-EZ units are not reported as traps.

The traps management feature in the devices allows enabling or disabling traps. It also enables defining the IP addresses of up to 10 stations to which traps will be sent, and the SNMP Read Community associated with each of these stations.

Each trap includes Trap Variables (Objects) that provide the necessary information on the reported event. All traps include a Trap Sequence Number that allows the management system to keep track of received traps. Each unit that generates traps maintains a history file holding the last traps that were sent by it (up to 1024 traps), enabling the management system to request details of previous traps (identified by the sequence number). The sequence number is composed of a boot number and a trap number. When a new trap is generated the trap number is incremented by one. After reset the history file is cleared, the boot number is increased by one and the trap number is set to 0. Traps are stored in the history file even when the traps sending option is disabled, enabling to retrieve traps using appropriate SNMP commands.

2. Trap Variables

NOTE



For convenience purposes, the brzaccVL prefix is replaced by *

Trap Variable (Object)	Description	Value/Range
*TrapSUMacAddr	Not applicable for AU-EZ. An SU/RB MAC address.	MAC address
*TrapText	Applicable to all units. Textual string for future use.	DisplayString

Trap Variable (Object)	Description	Value/Range
*TrapToggle	Applicable to all units. An On/Off toggle status.	Integer on (1) off (2)
*TrapAccessRights	Applicable to all units. The access rights used for login using Telnet.	Integer notLoggedIn (1) readOnly (2) installer (3) administrator (4) factory (5)
*TrapLog	Applicable to all units. Login or logout using Telnet.	Integer telnetLogin (3) telnetLogout (4)
*TrapTelnetUserIpAddress	Applicable to all units. The IP address of a Telnet user.	IP address
*TrapRTx	Applicable to all units. Retransmissions rate.	
*TrapFtpOrTftpStatus	Applicable to all units. The status of the last FTP/TFTP loading process.	successful (1) failed (2)
*TrapDFSMoveFreq	Applicable to AU/BU with HW revision B (for units with HW revision C and higher replaced by *TrapDFSMoveFreqNew to support a resolution of 0.5 MHz). The new frequency in MHz after detecting radar on a previous channel.	Integer
*TrapDFSMoveFreqNew	Applicable to all units. The new frequency in MHz after detecting radar on a previous channel. (Replaces *TrapDFSMoveFreq to support a resolution of 0.5 MHz for units with HW revision C and higher. For units with HW revision is B it will contain the same value as *TrapDFSMoveFreq, represented as a string.	DisplayString

Trap Variable (Object)	Description	Value/Range
*EthBroadcastThresholdExceeded	Applicable to all units. The number of packets that were dropped by the Ethernet broadcast/multicast limiter.	Integer
*TrapSubscriberType	Applicable to AUS only. The type of subscriber that was rejected by the AUS (AUS can serve up to 8 SUs. Only SU-3 and SU-6 are supported).	Integer unknownSubscriberType(0), su-3(3) su-6(6), rb-14(14), su-24(24), rb-28(28), su-54(54), rb-100 (100)
*TrapMACAddress	Applicable to BU/RB only. The MAC address of the BU/RB unit whose type has been changed.	MAC Address
*NewUnitType	Applicable to BU/RB only. The new type of the unit.	Integer bu (1), rb (2)
*TrapSWVersion	Not applicable for AU-EZ. The SW version of the SU/RB-B100 with a SW version below 4.0 that tries to associate with a station that has Wireless Link Prioritization Enabled	DisplayString
*TrapSequenceNumber	Applicable to all units. The sequence number of the trap.	Integer
*TrapUnitMacAddr	Applicable to all units. The MAC Address of the unit that initiated the trap.	MAC Address

Trap Variable (Object)	Description	Value/Range
*TrapParameterGroupCode	Applicable to all units. The code number of the parameters group that one of its parameters has been changed	Integer 1: Unit Control, 2: IP Parameters, 3: Air InterfaceParameters, 4: Network Management, 5: Bridge Parameters, 6: Performance Parameters, 7: Service Parameters, 8: Security Parameters
*TrapNewIP	Applicable to all units. The new IP Address of a unit whose IP Address has been changed.	IP Address

3. Traps

NOTE



For convenience purposes, the brzaccVL prefix is replaced by *

Table 3-1:

Trap	Description	Variables
*SUassociatedAUTRAP	Applicable to all units. A trap indicating a new association with an SU/RB.	*TrapSUMacAddr* TrapSequenceNumber
*AUdisassociatedTRAP	Applicable to all units. A trap indicating that an SU/RB has been disassociated from the AU/BU.	*TrapSUMacAddr* TrapSequenceNumber

Table 3-1:

Trap	Description	Variables
*AUagingTRAP	Applicable to all units. A trap indicating that an SU/RB aged out and was removed from the Associations database.	*TrapSUMacAddr *TrapSequenceNumber
*AUwirelessQualityTRAP	Applicable to all units. A trap indicating that the quality of the wireless link has changed and dropped below (Off) or increased above (On) a threshold defined by the *WirelessTrapThreshold.	*TrapToggle *TrapRTx *TrapUnitMacAddr, *TrapSequenceNumber
*PowerUpFromReset	Applicable to all units. A trap indicating power up after reset of the unit or of an associated SU/RB (excluding SU-EZ).	*UnitMacAddress *TrapSequenceNumber

Table 3-1:

Trap	Description	Variables
*TelnetStatusTRAP	Applicable to all units. A trap indicating that a log?in or log?out has been performed via Telnet. Includes the login access right and the IP address of the PC performing Telnet. Includes also the MAC address of the relevant unit - AU/BU or an associated SU/RB (excluding SU-EZ).	*TrapLog *TrapAccessRights *TrapTelnetUserIpAddress *TrapUnitMacAddress *TrapSequenceNumber
*LoadingStatusTRAP	Applicable to all units. A trap indicating the results (successful or failed) of the last FTP/TFTP loading process. Includes also the MAC address of the relevant unit - AU/BU or an associated SU/RB (excluding SU-EZ).	*TrapFtpOrTftpStatus *UnitMacAddress *TrapSequenceNumber
*PromiscuousModeTRAP	A trap indicating that promiscuous mode was enabled (on) or disabled (off). Not applicable for AU-EZ.	*TrapToggle *UnitMacAddress *TrapSequenceNumber

Table 3-1:

Trap	Description	Variables
*DFSRadarDetectedTRAP	A trap indicating that radar was detected	*TrapSequenceNumber
*DFSFrequencyTRAP	A trap indicating the new frequency after radar was detected.	*TrapDFSMoveFreq *TrapDFSMoveFreqNew *TrapSequenceNumber
*DFSNoFreeChannelsExistTRAP	A trap indicating that radar was detected and there is no free channel.	*TrapSequenceNumber
*EthBroadcastMulticatLimiterTRAP	The trap is send if the Ethernet broadcast filter threshold is exceeded and it contains the number of packets that were dropped since the last trap. Includes also the MAC address of the relevant unit - AU/BU or an associated SU/RB (excluding SU-EZ).	*TrapUnitMacAddress *EthBroadcastThresholdExceeded *TrapSequenceNumber

Table 3-1:

Trap	Description	Variables
*UnsupportedSubscriberTypeTRAP	Applicable to AUS only. This trap is generated when a subscriber unit that is not supported tries to associate with the AUS. The AUS supports only up to 8 SU-3 and/or SU-6 units.	*TrapSUMacAddr *TrapSubscriberType *TrapSequenceNumber
*UnitTypeChangedTRAP	Applicable to BU/RB only. This trap is generated when the user changes the type of the unit. The RB can be converted to BU or vice versa.	
*PrioritizationNotSupportedBySUTRAP	Not applicable to BU or AU-EZ. This trap is generated when an SU with a SW version below 4.0 that does not support Wireless Link Prioritization is associated with an AU with the Wireless Link Prioritization Option enabled.	

Table 3-1:

Trap	Description	Variables
*ParameterChangeTRAP	This trap is generated by AU/BU when a parameter has been changed, indicating the relevant group code. Also, if an SU/RB parameter that exists in the New ADB table (excluding SU-EZ) has been changed, the AU/BU will generate the trap for that SU/RB.	
*RunTimeIPChangeTRAP	Indicates that the IP address of the AU/BU, or of an associated SU/RB (excluding SU-EZ) has been changed.	