

*BreezeACCESS*  
*VL&BnB*

System  
Messages Guide



Version: 0.1  
Feb 6, 2006

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# BreezeACCESS VL and BnB System Messages Guide

## About This Guide

This guide describes several of the common messages that can appear on the monitor and, in version 2.0, 3.0 and 3.1 or later, in the event log. Most of the messages are classified into the following severity groups.

- ✦ **ERROR (ERR) Messages, page 5.**
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# FATAL (FTL) Messages

## ✦ **FTL – “MIR/CIR Priority Queue problem (3): PQ is empty”**

**Appears in: AU Unit, versions 3.1.21.**

The cause of this error message:

At least one buffer guarantee for each SU, if not AU will exhibit internal communication problem. The guarantee buffers are necessary because we want to guarantee the CIR for an each station.

The second cause can be that in some scenario the AU a Priority Queue can be allocated wrong queue space.

Versions older than 3.1.21 need a manual reset.

Versions later than 3.1.25 have the ability to recalculate the algorithm without a reset.

## ✦ **FTL – “chipReset\_keepAssoc: Error resetting WLAN HW!”**

*Appears in: SU Units, all versions.*

The cause of this error message:

The ATPC is enabled and the SU does not succeed to associate, the SU will try to increase its power. So, the ATPC is working before association.

It usually occurs in cases where the SU is set in from passive to active scanning. When set to passive again can solve the problem.

## ✦ **FTL: Invalid checksum for Terminal\_Session\_Id;**

*Appears in: AU*

The cause of this error message:

Seems to be a problem with TELNET session, it can be that the customer is using TELNET logout/login automatic script.

It is not currently known what causes this during normal operation. If this message is seen frequently in a specific scenario the following information is required in order to debug the problem: Version number, unit type, full ACC file Database capture and the explicit scenario in which this happens.

# ERROR (ERR) Messages

## ✦ **ERR: "SPCL - MacSendError"**

Appears in: AU.

The cause of this error message:

The AU gives this message when it tries to transmit a frame and the TX function returns an error, AU not responding by Ethernet and Radio.

The reasons for returning an error are

1. The Atheros chip is in reset - in the AU this can happen if Adaptive Modulation is active and the Transmit power are different per Modulation and some of the configured powers request Open Loop and other require Close Loop
2. The unit tries to transmit an invalid frame (If the unit tries to send in illegal frame the field type of the frame has no proper value)
3. The unit tries to fragment.
4. The unit tries to encrypt the frame and from some reason all 128 entries from Encryption/Decryption Key table are used. Or - If required to use encryption and the key that should be used for encryption has no entry in the HW Encryption Key Table.

(We noticed that there is some situation when the Encryption/Decryption Key table entries are not free. fixed in version 4.0.)

5. Atheros chip is in reset: this can happens because of ATPC or if a radar was detected and the chip should go to another frequency, or if the unit is an SU and it is in scanning mode.

Please note that this message can appear only in 3.0, 3.1 and 3.2. In version 2.0 and 4.0 the message does not exist.

Please check with the customer if DFS is required and they have a noisy environment

- ✦ **ERR: spFunUcast-. Internally generated message. Da: 00-10-E7-A4-0D-7E;**

*Appears in: All Units*

This message appears when the TCP/IP stack of the unit receives a packet and this packet seems to be generated locally (by the stack itself).

- ✦ **SPCL messages list**

**SPCL - Allocated 2097152 Memory at b8af20;**  
**SPCL - ISR connected for external interrupt vector 1;**  
**SPCL - Isr event created;**  
**SPCL - [\*\*\* Startup #00004 \*\*\*];**  
**SPCL - Allocated 2097152 Memory at b8af40;**  
**SPCL - ISR connected for external interrupt vector 1 ;**  
**SPCL - Isr event created**  
**SPCL - Sent 9984 frames at all rates - iteration 1;**  
.....

*Appears in: All Units, all versions*

The messages from the beginning of the log were generated when the units passed ATE. So, you should ignore these messages until the next upgrade (version 3.1) message.

## WARNING (WRN) Messages

- ✦ **WRN: “ESASG: SU 00-10-E7-A4-90-AF was disassociated (drops)”**

*Appears in: AU/BU Units, all versions*

This message generated in two situations:

1. The unit is deleted from the association database after 100 successful consecutive (unicast) frames are sent to the unit. The AU sends a Disassociation frame.
2. The RB/BU does not respond to the distance messages. This can happen because the link is not “clean”, the problem is related to the link quality.

CPE aging (feature added in 3.0) based on Distance Learning messages.  
The CPE aging works only if the SU and AU have 3.0 versions and can't be disabled.  
Default aging time is 2 minutes. (If one of them has v2.0 the aging will not work).

✦ **WRN: “WLAN Protocol Error: NO FH Parameter IN BEACON”**

*Appears in: SU/RB Units, all versions*

The AU/BU generate this message in the situation there is lack of information with the BEACON message.

✦ **WRN - “ESASG: Station 00-10-E7-A4-90-AF authentication rejected”**

*Appears in: AU/BU Units.*

The AU/BU generate this message in the next situations:

1. The stations used Shared Key algorithm for authentication and the encryption keys or encryption algorithms (WEP or AES OCB) are not the same.
2. An RB tries to associate to AU or SU tries to associate to a BU.
3. The Subscriber Unit received an authentication response after it issued an authentication request, but from a different AU. This can happen when there are several AUs working with the same ESSID and the SU didn't hear the authentication response from the AU it was expecting.

✦ **WRN - “Periodic association timeouts”**

*Appears in: SU/RB*

This message appears when the RB decides to associate with a BU but the authentication/association does not succeed.

The reason for this message is: The BU does not “hear” the RB messages or the RB does not “hear” the BU responses. Problem is related to the link quality.

✦ **WRN – “ESTM: Received AUTHENTICATION, out of order or with bad status”**

*Appears in: BU/RB units.*

In the RB log you will see that warnings messages. This message can appear in two situations:

1. The Authentication Algorithm is different.
2. Or/and BNET B tries to associate with VL.

Please recommend to the customer to change the ESSI.

✦ **WRN: MAC address is not in the list!!! 67:EB:00:E0: 7D: 72**

✦ **WRN: there is an Over Head, MACAD\_DeleteEntry (only version 3.0)**

*Appears in: All Units*

In order to have fast search in MAC Address Database we have a Hash table.

This message appears when we have more than 20 MAC Address (version 3.0 only) entries linked to an entry in Hash Table.

The unit tried to delete an entry in the MAC Forward Database of the bridge but it wasn't found there. Deleting entries from the MAC database is a normal task of the bridge that takes place every few minutes according to the aging time of the bridge (The default is 300 seconds)

An SU is only removed from the list of associated SUs under the following conditions: A SNAP frame is received from another AU indicating that the SU is now associated with the other AU. The SU failed to respond to 100 consecutive frames transmitted by the AU and is considered to have "aged out"

There is an internal hash table which has 65536 entries and is sorted according to the last 2 bytes of the MAC address.

Example:

Leaf 0:        00 00 - MAC1: 00 20 D6 89 00 00 MAC2 : 00 20 D6 03 00  
00 MAC3: 00 20 D6 B1 00 00

Leaf 1:        00 01 - MAC1: 00 20 D6 89 00 01 MAC2 : 00 20 D6 03 00  
01 MAC3: 00 20 D6 B1 00 01

Leaf 2    00 02 - MAC1: 00 20 D6 89 00 02 MAC2 : 00 20 D6 03 00 02  
MAC3: 00 20 D6 B1 00 02

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Leaf 65535:   FF FF - MAC1: 00 20 D6 89 FF FF MAC2 : 00 20 D6 03 FF  
FF MAC3: 00 20 D6 B1 FF FF

The MAC Address is searched in the appropriate leaf and if MAC address isn't found the message will be displayed.

In 3.1 there is no limitation about how many entries can we have linked to an entry in MACAD Hash Table

✦     **WRN: ESASG: Station: 00-10-E7-A4-0D-7E authentication rejected**

*Appears in: AU*

The SU unit has been rejected when trying to authenticate with an AU unit.

## MESSAGE (MSG) Messages

✦ **MSG: Searching Another AU sibEntryAddForAssociation: Mac Adder is Invalid**

*Appears in: SU Units.*

This occurs when the AU/SU tries to associate with a unit that has invalid address (multicast address or NULL address).

✦ **MSG: ESASG: Station 00-20-D6-8C-57-1C authenticated**

*Appears in: AU Units.*

A unit with the MAC address given was authenticated.

✦ **MSG: ESASG: Station 00-20-D6-8C-57-1C associated**

*Appears in: AU Units.*

A unit with the MAC address given was associated.

✦ **MSG: SPCL: ar5212MacStop:Failed to stop the MAC state 0x2**

✦ **MSG: SPCL: ar5212MacStop:Failed to stop the MAC state 0x4**

*Appears in: SU Units, HW Rev C*

The messages (1 and 2) Appear in rev C when the unit tries to stop its transmission.

Atheros driver does it when the TX Power or frequency is changed.

When the ATPC is enabled the SU will change its power and this is the reason that the message appears on the SUs

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- ✦ **MSG: SPCL - wlanKeyCacheAlloc: victim Sib = 0xcf68c4;**
  - ✦ **SPCL - Pend 0, Filter 0**

*Appears in: AU HW Rev A*

Hardware A. Firmware 3.0.20 AUs dropped all associations, requiring a reboot to bring them back online.

It is not currently known what causes this during normal operation. If this message is seen frequently in a specific scenario the following information is required in order to debug the problem: Version number, unit type, full ACC file Database capture and the explicit scenario in which this happens.

- ✦ **MSG: Download operation has been completed successfully**

*Appears in: All Units.*

The Firmware file has been successfully transferred to the device's flash memory.