

Mike Kuo

From: Tom Cokenias [tom@tncokenias.org]
Sent: Thursday, December 30, 2004 1:57 PM
To: Mike Kuo
Subject: Fwd: explanation of operation for BA VL and BNET B 5.3 models
Importance: High

Re: Alvarion Ltd., FCC ID: LKT-VL-53, Assessment NO.: AN04T4361

Mike,

In addition to the following from Duane, as you know the radios are professionally installed, and are country configured at the factory for each order (order must include information as to where the unit will be located).

The radio is sent to the installer with a NO ANTENNA SET configuration, and will not operate until one of the authorized antennas descriptor information is entered into the setup program. Once an acceptable antenna has been set, the software will automatically limit the power so that the local EIRP regulatory limits are met. In the US and Canada, this would mean a limit of 30 dBm at the transmitter end, which would be attenuated by the 1 dB cable loss, resulting in an EIRP maximum of 29 dBm EIRP.

best regards

Tom

X-Original-To: tom@tncokenias.org
Delivered-To: tom@ethra2.cokenias.org
From: Duane Buddrius <duane.buddrius@alvarion.com>
To: 'Tom Cokenias' <tom@tncokenias.org>
Subject: explanation of operation for BA VL and BNET B 5.3 models
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Tom,

The BreezeACCESS VL 5.3 and BreezeNET B 5.3, both use identical hardware and software mechanisms to determine TX power. In the system manual, chapter 3 "Commissioning" for both these products describes what parameters must be configured prior to operation of the product. Antenna gain is one of those parameters. Certain country dependent parameters such as maximum allowed transmitter power by regulation and maximum EIRP allowed by regulation are factory set and can not be changed nor reset by the user/installer. These parameters are described in Chapter 4. The antenna gain value is initially set as "Not Yet Set" by the factory and will not allow the transmitter to operate until a supported value for antenna gain is entered. Once the antenna gain is configured (including any cable loss) by the installer, the

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maximum transmitter power is automatically set by the radio (to the factory set EIPR value less the configured antenna gain), or the maximum regulation power, which ever is the lesser. The transmitter will now operate within the limits established by the country code parameters which are determined at the time of regulatory certification.

Duane Buddrius

Director of Product Engineering & Product Management

Alvarion Inc.

5858 Edison Place

Carlsbad, CA 92008

(760) 517-3171 office

(760) 685-2001 cell

duane.buddrius@alvarion.com

www.alvarion.com