

**New
Release**

BreezeACCESS® VL

Major Product Enhancement



Alvarion brings to the world of wireless broadband upgraded BreezeACCESS VL software (Version 3.1) and hardware Revision C operating in 5.8 GHz and 5.4 GHz with other bands to follow. Both are fully interoperable with previous BreezeACCESS VL releases. This release is intended to increase system capacity while adding enhanced features for existing BreezeACCESS VL networks. For new customers, hardware Revision C further increases capacity.

Boost your sector capacity!

For new BreezeACCESS VL installations of hardware Rev. C, capacity is increased by 60% (from 20Mbps to 32Mbps) for FCC certified access units (AU) and by 80% (from 17Mbps to 32Mbps) for ETSI and UK certified access units.

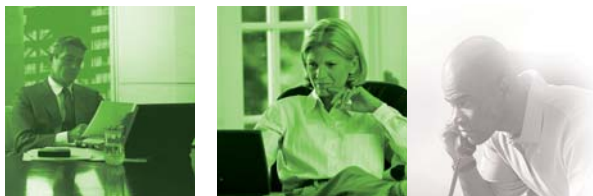
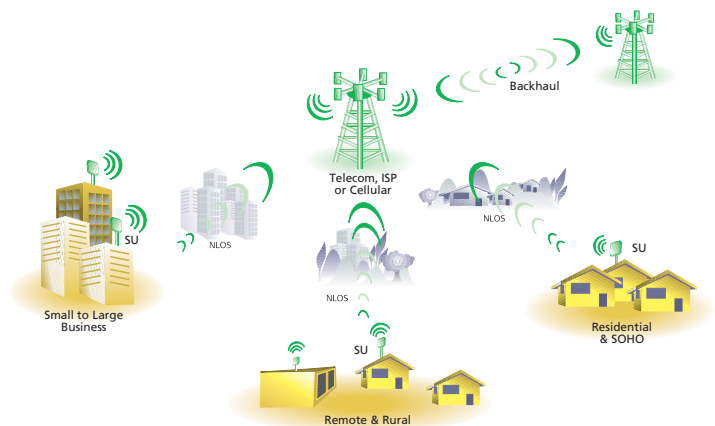
Among other improvements, packet concatenation and burst mode mechanisms reduce over-the-air overhead. Existing Rev. B networks upgrading to BreezeACCESS VL version 3.1 benefit from up to 25% increased capacity (20 Mbps to 25 Mbps, 17 Mbps to 22 Mbps in ETSI and UK).

New aggregated VL sector capacities

N/A	N/A	20 MHz channel		10 MHz channel	
AU HW using NEW software version 3.1	SU HW using NEW software version 3.1	UDP data rate	FTP data rate	UDP data rate	FTP data rate
Existing					
Any mixture of existing HW and new hardware revision C		33 Mbps (27 Mbps UK and EU)	25 Mbps (22 Mbps UK and EU)	N/A	N/A
New hardware revision C only		40 Mbps	32 Mbps	20 Mbps	16 Mbps

10 MHz Bandwidth Support

With hardware Rev. C, 10 MHz channels with 5MHz steps are now supported providing more channels for radio planning and for interference avoidance.



New Advantages in Software Version 3.1

DFS+: Enhanced DFS with Channel Reuse Algorithm

For regions that require DFS, Ver 3.1 includes an algorithm that enables the maintenance of the radio plan when radar activity is low.

Automatic Clear Channel Selection (ACCS)

The built-in spectrum analyzer detects the noise characteristics of each channel and includes an option for automatic clearest channel selection.

AU TX Control

For safe on-roof maintenance and for 1:1 redundancy, software Version 3.1 provides transmit control for turning AU transmitters on and off.

BreezeACCESS VL Benefits

- **WiMAX services - Today!**
 - Combining OFDM non line-of-sight technology (the technology that is the basis of the WiMAX 802.16 standard), extended reach, high capacity, QoS mechanisms, and an enhanced access suite enabling the delivery of data, VoIP, gaming, hotspot feeding, secured VPNs, video surveillance, xDSL replacement, government / military applications and more
- **Investment protection**
 - Co-location of future WiMAX base stations with existing BreezeACCESS VL equipment enables BreezeACCESS VL CPEs and WiMAX CPEs to provide services simultaneously in the same sector, all managed with the AlvariSTAR carrier grade NMS platform now and in future
- **Low cost installation**
 - Built-in SNR indicator bar on outdoor unit enables fast antenna alignment with no external equipment
 - Always-on adaptive modulation and automatic transmit power control (ATPC) optimizes link performances during installation and operation
 - Automatic clear channel selection (ACCS) for automatic selection of least interfered channel
 - Fast and simple CPE installation and easy to implement redundancy
- **Reduced infrastructure**
 - Fewer sites required as a result of high capacity, long reach and NLOS
 - Support for multiple subscriber profiles within the same sector and network
 - Modular and flexible for pay-as-you-grow (base station and stand alone), AC/DC, variety of antennas, variety of CPEs with the option to upgrade CPE rates over-the-air
- **Lower operating expenses**
 - Minimal infrastructure requirements reduce the number of sites to support
 - Higher capacities per sector reduces antenna attachment costs and site leases per cell
 - Remote management firmware and configuration download/upload
 - Enhanced diagnostic feature set

Backhauling Unit

Designed for installation within the base station chassis. The backhauling unit is intended primarily as a cost-effective solution for point-to-multipoint self-backhauling applications even in conjunction with BreezeACCESS GFSK-based systems, such as BreezeACCESS II.

AlvariSTAR for BreezeACCESS VL

Carrier class NMS platform that supports full FCAPS functionality, remote software upgrade to multiple devices and integration with standard interfaces to higher-level network management systems.

Enhanced Network Protection

- Remote blocking of Ethernet port
- Broadcast/multicast limiter
- MAC pinpoint
- Enhanced management access protection with MD5 algorithm



Alvarion Sales Contacts

International Corporate Headquarters
Tel: +972 3 6456262
Email: corporate-sales@alvarion.com

North America Headquarters
Tel: +1 650 314 2500
Email: n.america-sales@alvarion.com

Latin America & Caribbean
Tel: +1 954 746 7420
Email: lasales@alvarion.com

Brazil
Tel: +55 41 3024 6665
Email: brazil-sales@alvarion.com

China
Tel: +86 10 8857 6770
Email: china-sales@alvarion.com

Czech Republic
Tel: +420 222 191 233
Email: czech-sales@alvarion.com

France
Tel 1: +33 1 49 38 91 91
Tel 2: +33 1 34 38 54 30
Email: france-sales@alvarion.com

Germany
Tel: +49 172 1310758
Email: germany-sales@alvarion.com

Ireland
Tel: +353 66 712 8004
Email: uk-sales@alvarion.com

Japan
Tel: +81 3 3761 7206
Email: japan-sales@alvarion.com

Mexico
Tel: +52 55 5340 1421
Email: mexico-sales@alvarion.com

Philippines
Tel: +632 754 8028
Email: far.east-sales@alvarion.com

Poland
Tel: +48 22 863 28 78 / 80
Email: poland-sales@alvarion.com

Romania
Tel: +40 21 266 47 31
Email: romania-sales@alvarion.com

Russia
Tel: +7 095 783 82 31
Email: info@alvarion.ru

Singapore
Tel: +65 9631 4700
Email: far.east-sales@alvarion.com

South Africa
Tel: +27 12 6728836
Email: africa-sales@alvarion.com

U.K.
Tel: +44 845 450 1414
Email: uk-sales@alvarion.com

Uruguay
Tel: +598 2 606 2651
Email: lasales@alvarion.com



© Copyright 2005 Alvarion Ltd. All rights reserved.
Alvarion® and all names, product and service names referenced here in are either registered trademarks, trademarks, tradenames or service marks of Alvarion Ltd.
All other names are or may be the trademarks of their respective owners. The content herein is subject to change without further notice.

www.alvarion.com