Before the
DEPARTMENT OF COMMERCE
National Telecommunications and Information Administration
and the
DEPARTMENT OF AGRICULTURE
Rural Utilities Service

In the Matter of	)	
	)	
Joint Request for Information	)	**Docket No. 090309298-9299-01**
	)	
American Recovery and Reinvestment Act of	)	
2009 Broadband Initiatives	)	

COMMENTS OF ALVARION, INC.

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EXECUTIVE SUMMARY

The American Recovery and Reinvestment Act ("ARRA") provides $7.2 billion dollars in grants and loans for broadband infrastructure projects. Congress directed NTIA and RUS to fund projects that are cost-efficient and "shovel-ready", and implement the ARRA in a technology-neutral manner. While Alvarion, Inc. ("Alvarion") supports technological neutrality, it also believes that NTIA and RUS should not leave technology determinations solely to the market. Alvarion strongly urges NTIA and RUS to engage in a comparison of appropriate technologies and determine the most cost-efficient, future-proofed technology that can be deployed today in unserved, underserved, and rural markets. Alvarion believes this evaluation will reveal that WiMAX is an ideal technology to achieve the objectives set-out in the ARRA.

WiMAX today enjoys broad market adoption with over 455 networks deployed in over 135 countries. WiMAX is a proven broadband technology that is commercially available now. Alvarion has deployed more than 250 commercial WiMAX technology solutions around the world. As a provider of innovative WiMAX, Alvarion firmly believes wireless broadband is the best technology to ensure that the *entire* country will enjoy the benefit of the most advanced, future-proofed, interoperable broadband technology available.

The versatility of WiMAX will allow NTIA and RUS to achieve the objectives of the ARRA. WiMAX can be rapidly deployed on readily available cellular towers. Further, in combining WiMAX access technology with wireless middle-mile backhaul solutions and an all-IP network architecture, complete networks can typically be deployed in 9 months or less. WiMAX can also provide public safety with the benefits of interoperability, reliability and it can readily enable service to low-income, aged, or other vulnerable segments of the population.

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To: DEPARTMENT OF COMMERCE, National Telecommunications and Information Administration and DEPARTMENT OF AGRICULTURE, Rural Utilities Service

COMMENTS OF ALVARION, INC.

Alvarion, Inc. ("Alvarion") is pleased to provide comments regarding the implementation of the broadband initiatives contained in the American Recovery and Reinvestment Act of 2009 ("ARRA")[1] in response to the above-referenced Joint Request for Information released by the Department of Commerce's National Telecommunications and Information Administration ("NTIA") and the Department of Agriculture's Rural Utilities Service ("RUS").

I. BACKGROUND.

Alvarion is a provider of innovative WiMAX and wireless broadband network solutions, designed to enable personal broadband to improve lifestyles and productivity with portable and mobile data, VoIP, video and other services. Alvarion is a founding member of WiMAX Forum and has contributed significantly to developing and commercializing WiMAX. Alvarion is publicly traded in NASDAQ with over 25 offices worldwide. With more than 250 commercial WiMAX networks deployed worldwide in over 100 countries,[2] Alvarion's

[1] The American Recovery and Reinvestment Act of 2009, H.R. 1, 111th Cong. (2009).

[2] The operators that Alvarion works with in these countries include: Telkom South Africa, Enforta (Russia), Iberbanda/Telefonica (Spain), Altitude Telecom (France), Cable and Wireless, WiMAX Telecom (Austria), Aircell (India), Elro (Denmark), Access Kenya, Racsa (Costa Rica), Telmex (Mexico), Ertach (Argentina), Kenya Data Networks.

WiMAX base stations are the world's most-deployed WiMAX radio access network equipment.[3] As many of these networks are deployed in developing countries where there is limited existing telecommunications infrastructure, that serves just a fraction of the population, Alvarion has first-hand experience working with network operators who routinely address the challenges of bringing affordable broadband services to rural, remote, unserved and underserved communities. In addition, Alvarion received Buy American acceptance from RUS for its wireless products including its WiMAX line, BreezeMAX.[4]

II. WIRELESS BROADBAND TECHNOLOGY IS THE MOST COST-EFFECTIVE SOLUTION FOR SATIFISFYING MULTIPLE FUNDING PURPOSES OF THE NTIA AND RUS PROGRAMS.

The versatility of wireless broadband, and more specifically WiMAX, makes it possible for NTIA and RUS to achieve several of its programmatic objectives. WiMAX provides effective, reliable, and scalable IP-based solutions for businesses and consumers which can be readily extended to anchor institutions.

A. WiMAX is a Proven, True Broadband Technology That is Commercially Available Today.

Today, WiMAX enjoys broad market adoption with over 455 networks deployed in over 135 countries.[5] Based upon the harmonized IEEE 802.16/ETSI HiperMAN standard, the WiMAX ecosystem consists of more than 500 service providers, component manufacturers, and equipment companies. Additionally, through the WiMAX Forum, strict certification

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[3] Press Release, Alvarion, Inc., Alvarion Demonstrates the Latest in 4G Wireless Broadband at Mobile World Congress (Feb. 12, 2009), *available at* http://www.alvarion.com/presscenter/pressreleases/180767/. Wireless broadband and voice connectivity solutions offered by Alvarion for fixed, nomadic and mobile communications have already been deployed by service providers which include Bharti, MTN Uganda, Telecom Namibia, Digicel, TDS, Mainstreet Broadband and many others.

[4] See Exhibit I, Alvarion Press Release from April 1, 2009, http://www.alvarion.com/presscenter/pressreleases/182435/.

[5] *See* Comments of the National Rural Telecommunications Cooperative, GN Docket 09-29 (March 25, 2009) (The technology exists *now* to serve virtually every home and business....) (*emphasis* in original) ("NRTC Comments"); *see also* Comments of Stephouse Networks, GN Docket 09-29 at 4-5 (March 25, 2009) ("Stephouse Comments"); *see also* Consumer Federation of America Comments, GN Docket 09-29 at 4; *see also* Comments of DigitalBridge Communications Corp., GN Docket 09-29 at 2-4 (March 25, 2009) ("DBC Comments"); *see also* Comments of National Rural Electric Cooperative Association, GN Docket 09-29 at 2-3, 7 (March 25, 2009) ("NRECA Comments").

processes are mandated to ensure that all equipment is fully-interoperable and supportive of broadband fixed, portable and mobile services.[6]

B. Wireless Broadband Can Fulfill the Needs of Multiple Subscriber Segments Through a Single Network.

As rural service providers like DigitalBridge Communications Corp. have demonstrated,[7] WiMAX is a cost-effective, reliable, and scalable IP-based solution for serving consumers and small businesses, and such economics and capabilities are readily extended to the healthcare and education segments. As a fully-mobile technology with advanced security, bandwidth management, and quality of service functionality, WiMAX also is ideally suited for public safety applications which require the ability to prioritize traffic, and provide for flexible, application-centric download and upload transfer rates. Moreover, the tier of service controls within WiMAX readily enables service providers to create different pricing mechanisms to service low-income, aged, or other vulnerable segments of the population.

C. Wireless Broadband, Including WiMAX, Can Be Deployed More Rapidly Than Other Available Broadband Technologies.

With WiMAX, there are no cables to bury or hang on poles; no satellites to launch. WiMAX can be rapidly deployed on readily available cellular towers. Further, in combining WiMAX access technology with wireless middle-mile backhaul solutions and a flat, all-IP network architecture, complete networks can typically be deployed in 9 months or less.[8] WiMAX further enables trade offs between coverage and capacity, so a service provider can maximize the reach of its network in the initial launch phase and progressively enhance network capacity as customer demand increases.

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[6] *See* J. Exp. Stat. at 149; Food, Conservation and Energy Act of 2008, Pub. L. 110-246, 122 Stat. 1651 (2008); *see also* Food, Conservation, and Energy Act of 2008, Conf. Rep. No. 110-627, at 834 (2008) (*emphasis added*). Conferees stated that the Secretary of Agriculture is expected to consider the unique way of life in rural America and to be mindful that *mobile broadband technologies* are applicable to farmers, ranchers, and small rural business owners. *Fixed broadband service will continue to be important in rural homes and offices, but mobile technologies also may have a role to play in expanding broadband access to rural residents.* The Managers expect the Secretary to weigh all appropriate technologies, including the unique characteristics of mobile broadband service and technologies, during consideration of applications.

[7] *See* Zachary A. Goldfarb, *Surfing Roads Less Traveled; Ashburn Firm Makes WiMAX a Reality in Small-Town America*, Washington Post, June 30, 2008, at D1; *see also* DBC Comments at 1 (any comprehensive rural broadband strategy should support wireless broadband as the most expeditious, least expensive, most future-proofed solution for bringing quality broadband and advanced wireless services to rural areas.).

D. Alvarion's Open WiMAX Creates an Open IP-based Internet Model.

To solve the issue of bringing broadband access to rural and remote communities in America, it is essential that operators have the ability to both economically and rapidly deploy reliable broadband networks. Alvarion believes that mobile WiMAX technology, with its open standards and all-IP architecture, combined with its high-capacity, wide coverage and quality of service, is best suited to address these needs.

A further benefit of Alvarion's version of WiMAX, "Open WiMAX", is the disruptive operator-centric culture that the Open WiMAX standard is bringing to the telecom market. Historically, large telecom equipment vendors have chosen to be standards-based, but then choose to develop particular solutions with the goal of controlling the interfaces and interoperability of their standards-based solutions in a closed environment. Such an environment is not always a best fit for the needs of the service provider, as it creates a high dependence on the selected vendor.

Alvarion's Open WiMAX is focused on an open IP based internet model unlike the traditional telecom model of "one vendor does it all" philosophy.[9] Alvarion is one of the key companies pushing Open WiMAX to the front and center. With Open WiMAX, operators will choose the combination of vendors and partners that best fit their specific requirements and achieve the benefits that open access and interoperability will bring to the service provider's cost structure and operating efficiencies.

III. NTIA AND RUS SHOULD DEVELOP GUIDELINES AND EVALUATION CRITERIA FOR THE TECHNOLOGY PLATFORMS PROPOSED IN GRANT APPLICATIONS, AND NOT LET THE MARKET DETERMINE THE APPROPRIATE TECHNOLOGY.

Congress directed NTIA and RUS, to the extent practicable, to implement the ARRA in a technology-neutral manner. As suitable technologies are considered for broadband stimulus

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[8] *See e.g.,* DBC Comments at 3.

[9] Open WiMAX is an all-IP open architecture for WiMAX access networks, which is endorsed by the WiMAX Forum™ and complies with the WiMAX Forum's Networking Work Group (NWG) specifications, and is designed as an open, standardized, interoperable technology. Alvarion's Open WiMAX solution is a complete ecosystem based on three fundamentals: scalability, making it equally suitable for large, medium or small deployments; cost optimization, allowing operators to control network deployment costs; and application driven, enabling simple integration with third party applications and services.

funding, Alvarion urges NTIA and RUS to avoid making investments in technologies that are antiquated, outmoded, or incompatible with the technologies that are currently being deployed worldwide. Instead, Alvarion urges NTIA and RUS to develop clear guidelines and comprehensive evaluation criteria for technology selection so as to ensure that the *entire* country will enjoy the benefits of the most advanced, future-proofed, interoperable broadband technology available.[10] To not do so, would continue to leave rural communities across the country stranded and isolated.

Rural America wants access to affordable, reliable, and ubiquitous high speed broadband. The challenges service providers face in providing such a service are essentially identical from one rural community to the next. The digital divide exists because compelling, stand alone, technology solutions and business models do not exist to serve rural America. The intent of the grant and loan programs is to help close the gap, to make what would otherwise be a risky and at best marginally profitable business proposition, less risky and more attractive to potential service providers. As the grant and loan programs radically change the dynamics of the rural broadband business model, market forces alone cannot be relied upon for technology selection.

NTIA and RUS need strict standards to avoid providing funding to recipients that invest in technologies that are proprietary, outdated, or unproven. Additionally, applicants alone cannot be relied upon to ensure that their selected technology solutions will interoperate with broadband technologies being rolled out in urban areas, or even neighboring rural communities.

Alvarion believes that NTIA and RUS have to take an active role in the technology selection process so that the government's investment through stimulus dollars is made in proven, cost-effective, all IP-based, standards-complaint technologies. Considering Alvarion's direct experience working with service in over100 countries, Alvarion believes wireless

[10] Twenty-one Rural Broadband Strategy comments to the FCC last month emphasized the effectiveness of wireless broadband for rural broadband deployments: comments filed by American Petroleum Institute, Benton Foundation, Consumer Federation of American and Consumers Union, CTIA, DigitalBridge Communications Corp., General Communications, Inc., Halo Wireless, HeirComm, Inc., M2Z Networks, Main Street Broadband, National Rural Electric Cooperative Association, New America Foundation, National Rural Telecommunications Cooperative, Open Range Communications, PCIA – The Wireless Infrastructure Association and DAS Forum, Qualcomm Incorporated, Stephouse Networks, Universal Service for American Coalition, Nick Slater, Verizon/Verizon Wireless, and Wireless Internet Service Provider Association.

broadband and more specifically WiMAX should be a preferred technology solution for NTIA and RUS.[11] WiMAX is purposefully designed to fulfill requirements for a full range of fixed, portable and fully-mobile broadband applications. Some advantages that WiMAX presents over other readily available broadband technologies include:

- High peak data burst rates per user by utilizing several of the more advanced communications technologies like MIMO B, throughputs to devices can double when called for. This is a direct result of the technology affording high Quality of Service and advanced antenna options on both the base-stations and the CPE.

- High sustained average data transfer rate per user with the use of a scheduled MAC and scheduled Air Protocol, the base-stations can monitor the requirements of each user under its control and through feedback on the RF conditions of the CPE, make the best communications decisions to each user.

- Flexible channel bandwidths with the channel bandwidths being different for technologies worldwide, the WiMAX Forum designed flexibility into the channel bandwidth options of the radios. Not only do the channels fit into existing channel plans but the standard already is designing future channel bandwidths for other even higher throughput capacities.

- Fixed, portable, and fully mobile user support WiMAX offers the operator flexibility in the type of deployment that can be offered to the subscriber. To deliver service in Rural America, the operator can deploy a fixed CPE either by providing a self install CPE or an eaves mount antenna for greater coverage from the base-station. Once the base-station is established, the operator can provide portable or fully mobile coverage with no changes to the base-station within the same sector as the fixed. This allows for the operator to augment their service plans for its users.

- Five QoS levels enabling diverse tiered service options unlike Wi-Fi, WiMAX was designed from the beginning for Voice and Video services. The QoS follows the traffic through the network from the CPE through to its termination point and back. These services are highly dependant of QoS to deliver a service that traditional voice providers expect. With these 5 different levels of QoS, traffic can be partitioned into different classes based on their importance. These flows can even be generated by the same customer but this way voice can have a higher priority than the data being transferred.

- Multiple service flows per subscriber along with the five levels of QoS, each user can be granted several service flows each defined with a unique QoS and

[11] *See* Stephouse Comments at 4-5; *see also* CFA Comments at 4; *see also* DBC Comments at 2-4; *see also* NRECA at 2-3, 7.

throughput requirement. These service flows are handled per direction so that the QoS is maintained both in the downlink and the uplink.

- Latency management service flows allow for control of latency to increase reliable delivery of latency dependant services such as video and voice. Provisions for maximum latency control in each service flow guarantees high service levels.

- Bandwidth management each service flow can be managed with a Committed Information Rate or Maximum Information Rate to differentiate different service options.

- Flat, all IP architecture the all IP architecture extends networks and allows for granular control of traffic and more flexible backhauling options for the operator
- Highly secure using EAP-TTLS, AES and other high-end encryption methods, traffic maintains its security through the network. Unlike Wi-Fi there is no promiscuous mode operations allowed on the network.

- Commercial availability with worldwide market adoption because of the merger of HyperMAX and 802.16, WiMAX has become the worldwide standard for personal broadband for the future. Products for this standard have been shipping worldwide for a number of years and are now coming to the US with more advanced features.

- Standards compliance the WiMAX Forum has created several Certification labs where manufacturers of base-stations, chipsets and devices have been taking their gear for certification since last June. This ensures high level of interoperability and confidence in the market that devices chosen will operate just as commercial off the shelf (COTS) gear does in other industries.

- Technology evolution strategy WiMAX is not a new standard but one whose bases can be seen in technologies that are very commonplace today. The future of the standard is continuing to evolve to provide even more advanced functionality in the near and distant future.

- Very low capital cost per home passed one of the best things about WiMAX is that through the use of its advanced antenna technologies, a single base-station can provide services for a larger geographic area. This allows the operator to deploy a base-station in an area at low cost and as the network begins to grow create that build as you grow network. Alvarion has seen this in remote areas of the US and also the Caribbean where an operator can go from no customers to 20+% of the population within 90 days of going commercial.

- Lowest total cost per delivered bit of any technology with the use of the advanced technologies WiMAX offers the highest bit/per hertz capacities for

operators to deliver services. Also being an open standard gives manufacturers a platform to deliver the next generation devices for users.

IV. NTIA AND RUS SHOULD RELY ON MEANINGFUL TRANSMISSION SPEEDS AND OTHER THRESHOLD TESTS FOR EVALUATING DIFFERENT TECHNOLOGY PLATFORMS.

While the ARRA promotes awarding grants that will provide the greatest broadband speed possible, Alvarion cautions NTIA and RUS from being lured into a false "more is better" mentality. Alvarion recommends that NTIA's definition of broadband service rely on meaningful transmission speeds and other threshold tests for different technology platforms. Further, NTIA and RUS, in adopting an acceptable definition for broadband service, should focus more closely on affordability and accessibility.

In its recent *Report and Order*, the Federal Communications Commission revised the means by which it measures broadband penetration.[12] In the *Report and Order*, the Commission aptly noted that subscriber upload or download speeds at 200 kbps or greater is no longer a relevant descriptor for high speed broadband in that it excludes a significant segment of high bandwidth communications, such as high resolution video, which is now inclusive of broadband access.[13] Further, in requiring reporting of download and upload transmission speeds separately and in establishing a granular reporting structure,[14] the Commission has acknowledged the fundamental market realities of broadband. That is, broadband service is still predominantly download-centric, and economies of broadband delivery are more favorable for the download than the upload direction. Different technology platforms have the ability to deliver different transfer rates with their own unique set of customer segments, applications, and economics.

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[12] Development of Nationwide Broadband Data to Evaluate Reasonable and Timely Deployment of Advanced Services to All Americans, Improvement of Wireless Broadband Subscribership Data, and Development of Data on Interconnected Voice over Internet Protocol (VoIP) Subscribership, Report and Order and Further Notice of Proposed Rulemaking, 23 FCC Rcd 9691 (2008) ("*Report and Order*").

[13] Report and Order, ¶ 19.

[14] The Commission established reporting tiers "applicable to the reporting of both download and upload transfer rates" as: "(1) greater than 200 kbps but less than 768 kbps; (2) equal to or greater than 768 kbps but less than 1.5 mbps; (3) equal to or greater than 1.5 mbps but less than 3.0 mbps; (4) equal to or greater than 3.0 mbps but less than 6.0 mbps, (5) equal to or greater than 6.0 mbps but less than 10.0 mbps; (6) equal to or greater than 10.0 mbps but less than 25.0 mbps; (7) equal to or greater than 25.0 mbps but less than 100.0 mbps; and (8) equal to or greater than 100 mbps." *Report and Order,* ¶ 20.

Alvarion believes that the framework established by the Commission in the *Report and Order* is a useful starting point for the definition of "broadband" for the NTIA and RUS programs. While the Commission's previous definition of broadband, which some agencies still use including RUS,[15] would create maximum flexibility under the grant program, adopting this definition may resulting in NTIA inadvertently funding proposals that do not achieve the purposes of accelerating broadband deployment.

Alvarion recommends that the FCC, NTIA and RUS generally define broadband to mean a minimum average user download transfer rate of 768 kbps. Such data transfer rates are technically feasible with true wireless broadband technologies available today and would prevent the inadvertent consideration of wireless technologies that would be suitable primarily for voice communications and limited bandwidth data applications. Currently operators using WiMAX as their delivery solution are offering service plans to end-users of 2Mb/512 and 3Mb/1Mb.[16]

Further, Alvarion recommends that NTIA establish different thresholds for different technology platforms.[17] A "one size fits all approach" does not reflect the current state-of-the-art of broadband technology. While a threshold of 768 kbps is applicable to wireless broadband, today, point-to-point microwave, fiber, and even coaxial cable technologies are capable of delivering multi-megabit data rates to individual users. Applying threshold tests by technology platform will ensure that NTIA and RUS are funding state-of-the-art technology solutions.

V. CONCLUSION

Alvarion urges NTIA and RUS to develop clear guidelines and comprehensive evaluation criteria for technology selection so as to ensure that rural America, like urban parts

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[15] The RUS regulations define broadband service as "providing an information-rate equivalent to at least 200 kilobits/second in the consumer's connection to the network, both from the provider to the consumer (downstream) and from the consumer to the provider (upstream)." 7 C.F.R. § 1739.3.

[16] Current 3G technologies, including HSPA and CDMA EVDO, support average user data rates of 200 – 500 kbps. Today, these technologies are predominantly used for narrow bandwidth data applications such as web browsing and email, and are not capable of providing the rich broadband experience envisioned with the BTOP and RUS programs.

[17] Several commenters supported appropriate broadband technologies. *See* Comments of California Emerging Technology Fund, GN Docket 09-29 at 2 (March 25, 2009); *see also* CFA Comments at 3; see also DBC Comments at 1; *see also* Comments of the NRTC, GN Docket 09-29 (March 25, 2009).

of the country, enjoy the benefits of the most advanced, future-proofed, interoperable broadband technology available today. Alvarion believes WiMAX is an ideal technology to quickly and cost-efficiently deploy robust wireless broadband services to rural America. A project that includes WiMAX technology will help grantees meet the ARRA's objectives, including setting appropriate speeds; funding projects that are cost-efficient and "shovel-ready"; advancing a future-proofed, interoperable broadband technology; and funding projects that can improve public safety communications and bring broadband to vulnerable populations. Alvarion believes that WiMAX is a tremendous tool that will enable RUS and NTIA to achieve several of its programmatic objectives.

Respectfully submitted,

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Exhibit I

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Press Releases

Apr 1, 2009

Alvarion's BreezeMAX® Receives USDA's WiMAX™ Rural Development Acceptance for 3.65 GHz Frequency

Company adds 3.65 GHz product to list of previously approved 2.3 GHz and 2.5 GHz 802.16e products; enables operators advantage of U.S. government funds in additional FCC frequencies in support of rural America

Las Vegas, April 1, 2009 — Alvarion® Ltd., the world's leading provider of WiMAX™ and wireless broadband solutions, today announced that its BreezeMAX platform for the 3.65 GHz frequency band received USDA Rural Development acceptance from the U.S. Department of Agriculture Rural Utilities Service. Alvarion was the first vendor to receive this approval for its 802.16e BreezeMAX platform for the 2.3 GHz and 2.5 GHz frequency bands in July 2008.

RUS (Rural Utilities Service) acceptance is required for operators requesting funds from the Rural Broadband Access Loan program for the purpose of purchasing and deploying broadband systems. From 2001 through 2007, RUS has provided almost $6.5 billion in telecom grants, loans and loan guarantees for rural development. More grants will be available now through the Stimulus Bonds. Alvarion's RUS approved products are field-proven and already commercially deployed in the U.S.

"We share the excitement of US operators now able to deliver broadband across the country also in the 3.65 GHz frequency band, while leveraging the hundreds of millions of dollars in U.S. government support," said Greg Daily, President of Alvarion, Inc. "Using our BreezeMAX 3650 allows operators to deploy a future proof and cost optimized solution with the benefits of a standardized technology. We are proud to participate in RUS funded projects, which will speed up connectivity in rural America and bridge digital divide."

Alvarion's BreezeMAX 3650 supports the capabilities of self-install CPEs, advanced antenna technologies including MIMO, and enables up to fourth order diversity to maximize capacity and coverage. As an 802.16e platform, BreezeMAX 3650 provides the benefits of a large ecosystem, as well as global economies of scale that leverage multiple frequencies.

About USDA Rural Development

USDA Rural Development's mission is to increase economic opportunity and improve the quality of life for rural residents. Rural Development has invested more than $90 billion since 2001 for equity and technical assistance to finance and foster growth in homeownership, business development, and critical community and technology infrastructure. More than 1.7 million jobs have been created or saved through these investments. Further information on rural programs is available at a local USDA Rural Development office or by visiting USDA's web site at http://www.rurdev.usda.gov.

About Alvarion

Alvarion (NASDAQ: ALVR) is the largest WiMAX pure-player with the most

extensive WiMAX customer base and over 250 commercial deployments around the globe. Committed to growing the WiMAX market, the company offers solutions for a wide range of frequency bands supporting a variety of business cases. Through its OPEN WiMAX strategy, superior IP and OFDMA know-how, and ability to deploy end-to-end turnkey WiMAX projects, Alvarion is shaping the new wireless broadband experience (www.alvarion.com).

This press release contains forward-looking statements within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. These statements are based on the current expectations or beliefs of Alvarion's management and are subject to a number of factors and uncertainties that could cause actual results to differ materially from those described in the forward-looking statements. The following factors, among others, could cause actual results to differ materially from those described in the forward-looking statements: potential impact on our business of the spread of the U.S. credit crisis and current global recession; the inability to compensate for the loss of R&D funding through the reduction in operating expenses, the failure of the market for WIMAX products to develop as anticipated; Alvarion's inability to capture market share in the expected growth of the WiMAX market as anticipated, due to, among other things, competitive reasons or failure to execute in our sales, services provisioning, marketing or manufacturing objectives; inability to further identify, develop and achieve success for new products, services and technologies; increased competition and its effect on pricing, spending, third-party relationships and revenues; as well as the inability to establish and maintain relationships with commerce, advertising, marketing, and technology providers, and other risks detailed from time to time in the Company's 20-F Annual Report Risk Factors section as well as in other filings with the Securities and Exchange Commission.
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You may request Alvarion's future press releases or a complete Investor Kit by contacting **Kika Stayerman**, kika.stayerman@alvarion.com or +972.3.767.4159.

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