



Communications

Global WiMAX Market Development as of 1Q 2009

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WiMAX Market Development in Europe as of 1Q 2009

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Country	Operator	Equipment Provider	Status
Armenia	Comstar-UTS	Airspan	<ul style="list-style-type: none"> At the start of 2008 Comstar announced that it had completed the 802.16e Mobile WiMAX network.....
	iCON Communications	Alcatel-Lucent	<ul style="list-style-type: none"> iCon, an Armenian ISP, was established in the second half of Total investments amounted to
Austria	WiMAX Telecom AG	Alvarion	<ul style="list-style-type: none"> WiMAX Telecom selected the BreezeMAX 2500 from Alvarion for its network expansion in Austria..... In June 2007 WiMAX Telecom expanded its spectrum to 56MHz by acquiring Amtel networks. As a.....
Belgium	ClearWire	Motorola	<ul style="list-style-type: none"> In mid-2007, Clearwire was expected to expand service coverage to the two major cities of Leuven.....
Bulgaria	Max Telecom	Navini Proxim	<ul style="list-style-type: none"> Max Telecom is a subsidiary of Krassimir Stoichev. Max Telecom has selected the Ripwave MX8 base station from Navini for its plan to Max Telecom's total investment in 2007 was 15 Million Euros. It also plans to In July 2008 Max Telecom announced its services had covered 1/3 of Bulgaria with a population of.....
	Nexcom Bulgaria	Alvarion	<ul style="list-style-type: none"> At the beginning of 2007 Nexcom began building its fixed WiMAX networks in Nexcom announced in July 2008 that it would deploy a WiMAX network in

	Carrier BG	Motorola	<ul style="list-style-type: none"> ● In November 2007 Carrier BG announced a three-year, US\$71.6 million investment in
	TransTelecom	Huawei	<ul style="list-style-type: none"> ● TransTelecom is a new ISP owned by Petrol Holding. Deployed 802.16d WiMAX networks in
Republic of Croatia	Dubrovnik Telekom	N.A.	<ul style="list-style-type: none"> ● At the start of 2008 Dubrovnik Telekom received the approval of the.....
	WiMAX Telecom	Alcatel-Lucent	<ul style="list-style-type: none"> ● In mid-March 2008 WiMAX Telecom began rolling out its 802.16e Mobile WiMAX network in the.....
Cyprus	OmniGlobe Networks	Proxim	<ul style="list-style-type: none"> ● Adopted pre-WiMAX technology to provide high-speed network access targeted at residents of.....
Czech Republic	Czech Radiokom	N.A.	<ul style="list-style-type: none"> ● Czech Radiokom is a telecom carrier and its WiMAX subscriber base topped 10,000 as of ● January 2009 saw the beginning of fixed WiMAX network upgrade and network expansion to
Denmark	Danske Telecom	Nextnet	<ul style="list-style-type: none"> ● Danske Telecom is Clearwire's subsidiary in Denmark. It began deploying its 3.5GHz WiMAX
	ELRO	Alvarion Ceragon ECI Telecom	<ul style="list-style-type: none"> ● ELRO, a Danish utilities company, was permitted to deploy the WiMAX network in 2007. In July 2008.....
Isle of Man	Libera	Aperto Airspan	<ul style="list-style-type: none"> ● Libera began rolling out its WiMAX network in 2004 with the main target being small and medium.....
	Metranet	Alvarion	<ul style="list-style-type: none"> ● Metranet, a UK wireless ISP, partnered with Alvarion on deploying the WiMAX network in
	Wi-Manx	Redline	<ul style="list-style-type: none"> ● Wi-Manx is an ISP on the Isle of Man off the coast of England. In June 2007 it began expanding its.....
	Wightcable	Airspan	<ul style="list-style-type: none"> ● Wightcable is the main pay TV operator on the Isle of Wight. In March 2008 the
	On-Communications	Airspan	<ul style="list-style-type: none"> ● On-Communications announced its collaboration with Airspan in July 2008 on

England	OrbitalNet	N.A.	<ul style="list-style-type: none"> ● OrbitalNet, an ISP, announced in July 2008 that it would expand its commercial WiMAX network to.....
	CTS Gibraltar	Airspan	<ul style="list-style-type: none"> ● In April 2008 CTS Gibraltar partnered with Airspan to deploy a WiMAX network using the.....
	Urban WiMAX	Nortel	<ul style="list-style-type: none"> ● Urban WiMAX is a new WiMAX operator that has a long relationship with Nortel. In January 2007 it..... ● Partnered in 2008 with Nortel to rollout 802.16e Mobile WiMAX network. Plans to

	M-WAG	N.A.	<ul style="list-style-type: none"> ● M-WAG (Mobile-WiMAX Acceleration Group) is a company that specializes in the promotion of..... ● In 2008 it began trialing a 2.5GHz Mobile WiMAX network at the town of Maidstone in....
	Pipex	Airspan NSN	<ul style="list-style-type: none"> ● Pipex announced in April 2007 that it was forming a partnership with Nokia-Siemens on WiMAX..... ● Pipex has national licenses for the 3.6GHz-4.2GHz spectrum as well as 28GHz licenses for ● Freedom4, a joint venture between Pipex and Intel, has completed regional trials and
Estonia	Elion	Alcatel-Lucent	<ul style="list-style-type: none"> ● Elion is the largest telecom operator in Estonia and owns the 3.5GHz spectrum license. In October.....
	Norby Telecom AS	N.A.	<ul style="list-style-type: none"> ● Norby Telecom announced in 2006 that it would deploy the WiMAX network in
Finland	Finnet Group	Alvarion	<ul style="list-style-type: none"> ● Finnet Group is a Finnish ISP. Starting in January 2006 the company collaborated with Alvarion on..... ● Savonlinnan Puhelin, a local unit under the Finnet Group, announced on June 9, 2008, that it would.....
	@rteria	Alcatel	<ul style="list-style-type: none"> ● @rteria was conducting trials in the Alsace in eastern France and expected to
	Iliad	N.A.	<ul style="list-style-type: none"> ● Iliad, an ISP service operator, announced in 2007 it had tested WiMAX using
			<ul style="list-style-type: none"> ● TDF's subsidiary HDRR has regional licenses France. Trials using the 3.5GHz spectrum in

France	IDF	Motorola	<ul style="list-style-type: none"> Partnered with Motorola to deploy the 802.16e Mobile WiMAX network in
	Altitude Telecom	Alvarion WiNetwork	<ul style="list-style-type: none"> Altitude Telecom has acquired by IFW, which also owns a Altitude Telecom has installed 300 base stations in regions such as I-Eure, Calvados, Seine Marne and..... Altitude Telecom and the Rouen city government are working together to The Deux-Sèvres regional government in the west of France has chosen Altitude Telecom for At year-end 2007 Altitude began rolling out its 802.16e Mobile WiMAX commercial network in the.....
	Société du Haut Débit (SHD)	Alcatel	<ul style="list-style-type: none"> SHD is a joint venture between French telecommunications operator SFR and Neuf Cegetel. Alcatel..... Starting from 2006, Alcatel will help SHD set up 443 points within 6 years. 306 will be in Paris and.....
	Sloka Telecom	Supernet Technologies	<ul style="list-style-type: none"> Supernet, an Indian network equipment manufacturer, partnered with Sloka Telecom at the end of.....
	NOMOTECH	Redline	<ul style="list-style-type: none"> NOMOTECH is a network solution provider. In June 2008 the company partnered with Redline to.....
	Bolloré Telecom	Alcatel	<ul style="list-style-type: none"> In August 2007 Alcatel announced that it was deploying an experimental next-generation network in..... Motorola announced that it was too conducting WiMAX network trials with Bolloré Telecom in
	QTEL Global Networks	N.A.	<ul style="list-style-type: none"> QTEL, a local ISP, completed the rollout of its WiMAX network in the capital Tbilisi in mid-2007 and.....

Republic of Georgia	MagtiCom	Cisco-Navini	<ul style="list-style-type: none"> ● MagtiCom is the sole mobile operator in Georgia. It will begin offering WiMAX network service using.....
	VTel Georgia	Alcatel-Lucent	<ul style="list-style-type: none"> ● VTel Georgia is a unit of Dubai's Vtel. The company announced in July 2008 that it would use..... ● In December 2008, VTel Georgia launched its service under the brand of MAXIMALI in Batumi and..... ● MAXIMALI completed network deployment in Tbilisi, Batumi, Rustavi, and Poti in March 2009. It is.....
	Warid Telecom	Tunc Holding	<ul style="list-style-type: none"> ● In March 2008 Tunc and Warid Telecom entered a partnership to roll out a WiMAX network and.....
	T-Com	Alcatel-Lucent	<ul style="list-style-type: none"> ● T-Com is the fixed network division of Deutsche Telekom. It is currently using ● At the end of 2006 T-Com announced that it would not take part in the 3.5GHz spectrum auctions and.....
	NEW Energie	Nortel	<ul style="list-style-type: none"> ● tkt teleconsult has partnered with Nortel to help with NEW Energie's commercial rollout since the.....
	VSE NET	Alcatel-Lucent	<ul style="list-style-type: none"> ● VSE NET, a communications provider in the Saarbrücken region, signed

Germany			<ul style="list-style-type: none"> ● Mobile WiMAX network completed in December, 2007 with commercial service offered to.....
	NeckarCom	Motorola	<ul style="list-style-type: none"> ● In October 2007 NeckarCom deploying its WiMAX network throughout
	MVOX	N.A.	<ul style="list-style-type: none"> ● Mvox launched its Fixed WiMAX network using the 5.4-5.7GHz spectrum in
	Televersa	Proxim	<ul style="list-style-type: none"> ● Televersa announced in October 2007 that its WiMAX services using the 3.5GHz
	Deutsche Breitband Dienste GmbH	Airpa	<ul style="list-style-type: none"> ● DBD is Germany's first and largest broadband service provider. It has adopted the..... ● Germany is planning to invest 500 Million Euros in ● 160 Million Euros will be invested each year in rollouts starting from.....
Greece	Craig Wireless	Nortel	<ul style="list-style-type: none"> ● In 2007 Athens, Heraklion, Patras and Thessaloniki were expected to
	Hellenic Telecommunications Organization (OTE S.A.)	Aperto Redline	<ul style="list-style-type: none"> ● OTE built a 3.5GHz WiMAX network in northern Greece at Mount Athos in
	Q-telecom	N.A.	<ul style="list-style-type: none"> ● Q-telecom announced in June 2006 WiMAX network trials in
Ireland	Eircom	N.A.	<ul style="list-style-type: none"> ● Eircom is the largest telecom operator in Ireland. Began WiMAX network trials in
	NUI	Alcatel-Lucent	<ul style="list-style-type: none"> ● NUI (National University of Ireland) partnered with Alcatel-Lucent to

	Irish Broadband	Alvarion Navini	<ul style="list-style-type: none"> • Placed orders worth • Regions with WiMAX service include Athlone,
	IBAX	Navini	<ul style="list-style-type: none"> • IBAX and Navini have a close relationship and are • Existing services include not only

Italy	AriaDSL	Alcatel-Lucent	<ul style="list-style-type: none"> ● AriaDSL, a local Italian ISP operator, partnered with ● Starting in November 2008 the company collaborated with
	NGI	Alvarion	<ul style="list-style-type: none"> ● NGI, a local Italian ISP, partnered with
	AFT-Linkem	Alcatel-Lucent	<ul style="list-style-type: none"> ● AFT-Linkem, an ISP, is a subsidiary of S.p.A AFT. The company began deploying the ● In June 2008 AFT-Linkem, together with Alcatel-Lucent, began deploying a
	Retelit SpA	N.A.	<ul style="list-style-type: none"> ● Retelit, an ISP, announced in July 2008 that it would invest an
Kazakhstan	Samghau Thales	Alcatel-Lucent	<ul style="list-style-type: none"> ● Samghau is a state-owned enterprise and its subsidiary ...
	AsiaBell	Cisco-Navini	<ul style="list-style-type: none"> ● ISP AsiaBell and Cisco-Navini began collaboration on deploying mobile WiMAX in
	Arna	Posdata	<ul style="list-style-type: none"> ● Arna, the largest fixed-line and internet service provider in
Latvia	Lattecom	Alvarion	<ul style="list-style-type: none"> ● Lattelecom is a telecom carrier which announced the commencement of
	Telecentrs	N.A.	<ul style="list-style-type: none"> ● Telecentrs is one of Latvia's major telecoms. The company planned to.....

Lithuania	Balticum TV	Alvarion	<ul style="list-style-type: none"> ● Balticum TV is a regional MSO (Multiple System Operator). The company's collaboration with.....
	LRTC	Samsung	<ul style="list-style-type: none"> ● Together with Samsung, Lithuanian radio and TV service provider LRTC began deploying ● Commercial service commenced in the capital Vilnius in March 2009. Nationwide mobile WiMAX..... ● LRTC's WiMAX services include data transmission,
Republic of Macedonia	Cosmotelco	N.A.	<ul style="list-style-type: none"> ● Cosmotelco, a Greek telecom operator, announced in
	Neotel	Alvarion	<ul style="list-style-type: none"> ● Neotel is a Macedonian wireless carrier. The company, in collaboration with
Malta	Vodafone	Airspan	<ul style="list-style-type: none"> ● In June 2007 Vodafone deployed a 3.5GHz WiMAX network providing download speeds of..... ● Full WiMAX coverage on Malta was expected to
	GO Mobile	Alvarion	<ul style="list-style-type: none"> ● GO mobile announced in July 2008 that it would employ ...

Montenegro	MTEL	Sitronics	<ul style="list-style-type: none"> ● MTEL, a GSM telecom operator, signed a 4.5 Million Euros agreement with
	ProMonte Comarch	Airspan	<ul style="list-style-type: none"> ● ProMonte is Telenor's subsidiary in Montenegro and ● In November 2008 Comarch announced its joint WiMAX project with
	WorldMAX	Motorola Alcatel-Lucent	<ul style="list-style-type: none"> ● WorldMAX is a joint venture between Intel and Enertel. In March 2007 it announced it would ● In February 2008 WorldMAX selected Alcatel-Lucent for its rollout of Mobile WiMAX networks in.....
	CallMAX	N.A.	<ul style="list-style-type: none"> ● CallMAX is an wireless ISP and began its 802.16e Mobile WiMAX network deployment in

Netherlands	Ziggo	Alcatel-Lucent	<ul style="list-style-type: none">● Ziggo is a cable operator. The company, in collaboration with Alcatel-Lucent, announced a
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Norway	NextGenTel	Alcatel-Lucent	<ul style="list-style-type: none"> ● NextGenTel is a subsidiary of the Swedish and French joint venture TeliaSonera. At year-end ● In the 2006 spectrum licensing auctions, NextGenTel acquired the 2.3GHz license and plans to
	OLF	Alcatel-Lucent	<ul style="list-style-type: none"> ● OLF, the Norwegian Oil Industry Association, began collaboration with
	Telenor	Airspan Nokia Siemens Networks	<ul style="list-style-type: none"> ● The Norwegian telecommunications group Telenor announced that it was ● Norway completed its auction of 2.5GHz licenses in November 2007. The licenses will expire in.....
	Telia A	Alcatel Alvarion	<ul style="list-style-type: none"> ● Deployment began in 20 Polish cities in August, 2006, one of
	Exatel	Alvarion Proximetry and Tranzeo Wireless Technologies	<ul style="list-style-type: none"> ● WiMAX service officially launched in September 2006 in ● In March 2008 formed partnership with Proximetry and Tranzeo Wireless Technologies to
	Milmex Systemy Komputerowe	SOMA Networks	<ul style="list-style-type: none"> ● Began building a national WiMAX network using the 3.5GHz spectrum in

Poland	NASK	N.A.	<ul style="list-style-type: none"> ● NASK is one of Poland's major ISPs (Internet Service Providers) and
	Multimedia Polska	Airspan	<ul style="list-style-type: none"> ● Multimedia Polska is a Polish telecom carrier. Starting in June 2007 the ● In December 2008 the company signed a network expansion contract with
	Biatel S.A.	Aperto	<ul style="list-style-type: none"> ● Biatel SA is an SI (System Integrator) which assisted in deploying the
	Crowley Data Poland	Redline	<ul style="list-style-type: none"> ● Crowley Data began deploying WiMAX network in Krakow in
	MNI S.A.	Airspan	<ul style="list-style-type: none"> ● MNI bought Airspan equipment in March 2007. Deliveries from Airspan in
	Enforta	Alvarion Infinet Wireless Airspan	<ul style="list-style-type: none"> ● Enforta used Alvarion's BreezeMAX5200 solution to become one of the..... ● As of September 2008 Enforta service coverage
	Summa Telecom	Motorola	<ul style="list-style-type: none"> ● Launched an experimental network in Moscow at year-end 2007. Planned to expand its ● Summa owns licenses for
	Synterra	Motorola Alcatel-Lucent Zyxel	<ul style="list-style-type: none"> ● In mid-2007 Synterra launched the mini-network WiWAX covering initially the ● Announced a strategic partnership with Alcatel-Lucent in ● Announced in January 2008 that it would partner with
	MegaFon	Proxim Wireless	<ul style="list-style-type: none"> ● MegaFon is a mobile operator and its..... ● In April 2008 MegaFon signed a partnership agreement with ● Deployed WiMAX network infrastructure in
			<ul style="list-style-type: none"> ● Golden Telecom operates in both Russia and Ukraine. It holds a

Russia	Golden Telecom	Nortel	<ul style="list-style-type: none"> At the end of 2007 it merged with Vimpelcom, the second largest GSM operator in
	MetroMAX	Airspan	<ul style="list-style-type: none"> MetroMAX is an ISP. In January 2006 it partnered with Announced in June 2008 that it had set up six subsidiaries in the
	Comstar-UTS	Airspan Nortel	<ul style="list-style-type: none"> Comstar is one of the largest telecom operators in Russia and is a subsidiary of Comstar announced in July 2008 that it had selected Nortel for
	Device (Infoseti)	Aperto	<ul style="list-style-type: none"> In May 2005 Infoseti and Aperto jointly set up a.....
	Scartel	Samsung Cisco-Navini	<ul style="list-style-type: none"> Scartel partnered with Korea's Samsung to Expected to provide WiMAX services.....
	Start Telecom	Motorola Nokia Siemens Networks	<ul style="list-style-type: none"> Start Telecom is an ISP with 1,500 business customers. In 2006 it Start Telecom invested US\$3.66 million in
	Center Telecom	Alvarion	<ul style="list-style-type: none"> Center Telecom is the fifth largest telecommunications company in Center Telecom has already rolled out BreezeMAX systems from Alvarion in
Serbia	BeotelNet	Aperto	<ul style="list-style-type: none"> BeotelNet, a Serbian ISP company, has adopted Aperto's Packetwave technology for
	VeratNet	ZTE	<ul style="list-style-type: none"> In September 2005 VeratNet has adopted ZTE's end-to-end solution to

Slovenia	Telekom Slovenije	Telsima	<ul style="list-style-type: none"> ● Telsima and Iskratel helped Telekom Slovenije, Slovenia's main telecom operator, to deploy a.....
Spain	Iberbanda (Acquired in 2006 by Telefónica)	Alvarion Airspan Alcatel-Lucent	<ul style="list-style-type: none"> ● By the end of 2007 Iberbanda had set up 189 base stations in country regions and ● At the start of March 2008 Iberbanda partnered with Alvarion to jointly rollout a ● Statistics in November 2008 indicated that Iberbanda's 3.5GHz fixed WiMAX service had ● Iberbanda and Alcatel-Lucent deployed and demonstrated a pilot network using
	R	Airspan	<ul style="list-style-type: none"> ● R is a regional MSO in Galicia. In March 2009, the Galician government authorized R to
	Neo-Sky	Alcatel-Lucent	<ul style="list-style-type: none"> ● Neo-Sky is a subsidiary under Iberdrola Group. The company partnered with Alcatel-Lucent for the.....
	Cable & Wireless International	Alvarion	<ul style="list-style-type: none"> ● CWI partnered with Alvarion to deploy both Fixed and Mobile WiMAX networks in
	Clearwire Spain	N.A.	<ul style="list-style-type: none"> ● In September 2007 Clearwire made its forays into in the
Sweden	Åre Network	Redline	<ul style="list-style-type: none"> ● Åre Network is an ISP based in the remote region of Sweden. The company, together with
Switzerland	Swisscom	Motorola	<ul style="list-style-type: none"> ● Swisscom holds the BWA license and in February 2007 announced that it planned to ● Swisscom has integrated WiMAX technology into the existing nationwide networks in
Turkey	Turbonet	Aperto	<ul style="list-style-type: none"> ● Selected Aperto's Packetwave technology and conducted trials in
	Ukrainian High Technologies	Alvarion	<ul style="list-style-type: none"> ● At the start of 2007 UHI renamed its WiMAX division to Alternet. 3.5GHz spectrum will be.....

Ukraine			<ul style="list-style-type: none"> ● Subscribers reached 1,000 in August 2007. Currently growing at around
	Golden Telecom	N.A.	<ul style="list-style-type: none"> ● Golden Telecom acquired the 2.3GHz license in 2006 through its
Uzbekistan	MTS- Uzbekistan	N.A.	<ul style="list-style-type: none"> ● MTS-Uzbekistan is a subsidiary of Mobile TeleSystems OJSC, the largest
	Super-iMAX	POSDATA Alvarion	<ul style="list-style-type: none"> ● Super-iMAX was acquired by Korea's KT in 2007 and began deploying the..... ● Announced in August 2008 that its 802.16d WiMAX network had began ● In December 2008, Super-iMAX signed a contract with Intel and TS-Technology for

Note 1: The order of countries listed is arranged alphabetically

Note 2: US\$1=0.72 Euro; US\$1=0.63 Pound

Source: MIC, April 2009

WiMAX Market Development in the Americas as of 1Q 2009

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Country	Operator	Equipment Provider	Status
Argentina	Ertach	Alvarion	<ul style="list-style-type: none"> Ertach was acquired by the Began rolling out 4Motion Mobile WiMAX network in Rosario in
	Velocom	Alvarion	<ul style="list-style-type: none"> Velocom's fixed WiMAX service became available in the metropolitan area by the Services available in cities such as Buenos Aires, Mar del Plata, Rosario,
	Falkland Islands Government C&W South Atlantic Ltd	N.A.	<ul style="list-style-type: none"> FIG and C&W are jointly building a WiMAX network for the FIG contributes 823,000 Pound while
	ChinaTel	N.A.	<ul style="list-style-type: none"> China Tel acquired Trussnet USA and entered into partnership with.....
Barbados	AccessOne Barbados	N.A.	<ul style="list-style-type: none"> Announced in December 2008 that it has signed a BOT (Build-Operate-Transfer) contract with
Bermuda	North Rock Communications	Alvarion	<ul style="list-style-type: none"> North Rock Communications, a full-service fixed wireless telecom service provider, delivers the
Bolivia	Entel	Alcatel-Lucent	<ul style="list-style-type: none"> At the end of June 2008, Entel collaborated with Alcatel-Lucent to build
	NuevaTel	Alcatel-Lucent ZyXEL	<ul style="list-style-type: none"> NuevaTel, a telecom subsidiary of US Trilogy International, announced its WiMAX network based

	Tigo	Alvarion	<ul style="list-style-type: none"> ● Tigo's parent company is Millico International Cellular. It is now offering its service under the ● In October 2008 its network will be further expanded to include cities such as
Brazil	TVA Sistema de Televisao SA	Samsung Nortel Motorola	<ul style="list-style-type: none"> ● TVA is the main Brazilian provider of broadband and VoIP services. Introduction of ● Announced in March 2007 that a mobile WiMAX trial using Nortel equipment will ● In March 2007 held WiMAX trial with ● Was to conduct trial of Samsung CPE with 200 TVA users in
	Neovia	Redline Alvarion	<ul style="list-style-type: none"> ● At the start of 2007 Neovia spent US\$15 Million to purchase..... ● Announced in August 2007 that it will use the RedMAX platform from Redline and ● Announced in April 2008 that it will deploy mobile WiMAX networks, initially in the.....
	Brasil Telecom	Alcatel-Lucent	<ul style="list-style-type: none"> ● BrT is the largest telecom operator in Brazil. At the end of 2007 it announced that it would
	Sercomtel	Motorola	<ul style="list-style-type: none"> ● announced 1.3.5GHz WiMAX networks in
	Embratel	N.A.	<ul style="list-style-type: none"> ● Embratel is a subsidiary of Mexico's Telmex. At the end of 2007 it ● In March 2008 Embratel completed phase one of its Mobile WiMAX rollout in the..... ● Embratel has invested US\$105 Million in WiMAX rollouts as of 2008. Plans to expand to ● Embratel plans to invest another
	Brazilian Government	Intel	<ul style="list-style-type: none"> ● As part of its Intel World Ahead Program, Intel is collaborating with the
	Wideway Do Brasil	Aperto	<ul style="list-style-type: none"> ● In 2007 Wideway Do Brasil began its WiMAX rollout using the

	Telefonica Brazil	Motorola	<ul style="list-style-type: none"> ● 2008 Telefonica began a three-month 802.16e WiMAX trial in Pinheiros and
	Intelig	MTEL	<ul style="list-style-type: none"> ● Intelig is a Brazil-based long distance mobile operator. Offers pre-WiMAX services using
	Hughes Network Systems	N.A.	<ul style="list-style-type: none"> ● Hughes Network System is a US broadband satellite provider. Announced in
Canada	Terago	Airspan Alvarion	<ul style="list-style-type: none"> ● Terago, North America's largest fixed wireless broadband service provider, plan to
	Comcentric	Redline	<ul style="list-style-type: none"> ● Comcentric is an ISP. Announced in May 2007 that it had completed WiMAX network construction in..... ● Quadro Communications, one of the Comcentric owner companies, began deploying WiMAX in.....
	Cybersurf	Vecima Networks	<ul style="list-style-type: none"> ● Cybersurf, an Internet and telecom service provider, serves mainly in ● Cybersurf collaborated with Vecima Networks, which provided the former solution of
	Primus Canada	Motorola Alcatel-Lucent	<ul style="list-style-type: none"> ● In May 2007 Primus Canada entered a partnership with Mipps, which had the
	Navigo	N.A.	<ul style="list-style-type: none"> ● Navigo, a subsidiary of Bell Canada, is an ISP. Provides WiMAX services for home and.....
	Netago	Nortel	<ul style="list-style-type: none"> ● The Alberta SAB (Special Areas Board), which has selected Nortel to build
	ISP Radioactif.com	N.A.	<ul style="list-style-type: none"> ● Quebec-based ISP Radioactif.com teamed up with
	Duke Energy	SR Telecom	<ul style="list-style-type: none"> ● Duke Energy chose the SR Telecom's SymmetryMX solution in May 2006 to.....
	Sogetel	Airspan	<ul style="list-style-type: none"> ● Sogetel adopted Airspan's MicroMAX-SOC base station system for its network in

	Inukshuk Wireless	Motorola	<ul style="list-style-type: none"> ● Inukshuk Wireless is a joint venture between Roger, the largest local cable company, ● By January 2007 planned to invest US\$200 million in ● Roger and Bell Canada plan to expand service to over 100 Canadian cities by ● Roger has expanded its pre-WiMAX service coverage to 152 urban and..... ● By late October 2008 began serving in Alberta, British Columbia, and
Cayman Islands	Digicel	Alvarion	<ul style="list-style-type: none"> ● In 2006 Digicel began rolling out island-wide WiMAX running on.....
Chile	Entel	Alvarion	<ul style="list-style-type: none"> ● Entel is now aggressively launching its voice and data services in ● Entel plans to invest US\$20 million in building ● Entel had 40 base stations as of March 2007. Planned to deploy another 30 base stations by.....
	VTR	Motorola	<ul style="list-style-type: none"> ● VTR is a subsidiary of the..... ● In late January 2008, VTR announced to begin
	Subtel	(Partner: Entel)	<ul style="list-style-type: none"> ● Chile's telecommunications regulator Subtel indicated that it will use
	Telmex	Alcatel- Lucent	<ul style="list-style-type: none"> ● In 2004 acquired licenses in ● Rollout began in Santiago and 98% of the local population ● Telmex has invested U\$15 Million in WiMAX and is targeting the ● Planned to invest US\$15 million to.....

Colombia	Orbitel	Siemens	<ul style="list-style-type: none"> ● Orbitel's parent company is ● Orbitel began its initial WiMAX rollout in
	EmCali	ZTE	<ul style="list-style-type: none"> ● Empresas Municipales de Cali (EmCalie) a state-run telecom operator collaborated with
	ETB	N.A.	<ul style="list-style-type: none"> ● ETB, Bogota's leading telecom operator, announced in
Costa Rica	RACSA ICE	Alvarion Airspan	<ul style="list-style-type: none"> ● RACSA is a subsidiary of ICE. In July 2006 RACSA, a state-owned ● In August 2007 Alvarion announced that RACSA had chosen its..... ● ICE plans to build a nationwide WiMAX network ● In December 2008 ICE and Alvarion signed..... ● ICE and Airspan signed a US\$12.5 million contract for ...
Dominican Republic	Wind Telecom	Nortel	<ul style="list-style-type: none"> ● In March 2007 Wind Telecom, a new telecom operator set up in ● Wind Telecom uses the 2.5GHz spectrum. Planned to begin offering.....
	Tricom	Airspan	<ul style="list-style-type: none"> ● Tricom, a Dominican telecom operator, signed an agreement in ● Tricom and Wind Telecom began offering joint services at
	ONEMAX	Alcatel- Lucent	<ul style="list-style-type: none"> ● ONEMAX and Alcatel-Lucent completed the
	TV Cable	Airspan	<ul style="list-style-type: none"> ● TV Cable is the largest cable TV operator in Ecuador. In September 2006 it began..... ● TC Cable had a total of 4,000 subscribers upon the.....

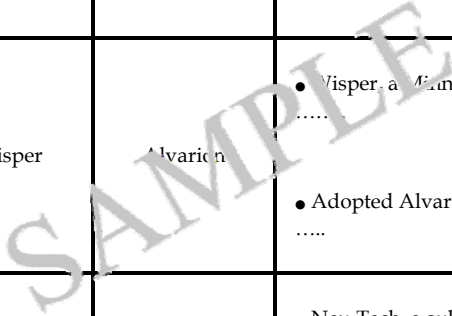
Ecuador	Pacifictel	Airspan	<ul style="list-style-type: none"> ● Pacifictel, the Ecuadorian state-owned telecom operator, announced
	PuntoNet	Airspan	<ul style="list-style-type: none"> ● PuntoNet, an Ecuadorian ISP, teamed up with
	Andinatel	N.A.	<ul style="list-style-type: none"> ● Andinatel, another Ecuadorian state-owned telecom operator, announced to.....
Guatemala	Terra	N.A.	<ul style="list-style-type: none"> ● Terra, a subsidiary of Telefonica, launched pre-WiMAX services under
	MetroVia/Unitel	Motorola	<ul style="list-style-type: none"> ● MetroVia is an ISP that has a strong partnership with
Guyana	GT&T	Airspan	<ul style="list-style-type: none"> ● GT&T invested US\$4.5 million in building a WiMAX network in
Haiti	Voila	Alcatel-Lucent	<ul style="list-style-type: none"> ● Voila, a Haiti-based mobile network operator, signed a cooperation agreement with
	Comcel	Alcatel-Lucent	<ul style="list-style-type: none"> ● Comcel, a Haiti-based mobile network operator, signed a two-year cooperation agreement with
Republic of Honduras	Digicel (Honduras)	Alvarion	<ul style="list-style-type: none"> ● Digicel, a Latin America-based telecom operator, begun WiMAX commercialization in
			<ul style="list-style-type: none"> ● Digicel currently has 500 retailing stores and plans to invest
	Protel Mexico	Airspan	<ul style="list-style-type: none"> ● New contract signed in 2006 worth approximately

Mexico	AlanDick	Readline	<ul style="list-style-type: none"> ● AlanDick is a communication infrastructure solution provider. In January 2006,.....
	Alestra	Motorola Aperto	<ul style="list-style-type: none"> ● Alestra is a long-distance telephony company and..... ● At the beginning of 2008 it announced its participation in... ..
	MVS	Motorola	<ul style="list-style-type: none"> ● MVS is the largest wireless broadband provider in ● In 2007 MVS had expanded services from five cities to 30 cities in
	AXTEL	Airspan Alvarion Redline Motorola	<ul style="list-style-type: none"> ● In 2006 AXTEL purchased US\$10Million equipment from ● At the beginning of 2008, AXTEL began deploying WiMAX networks based on
	Ultrahnet2go	Navini	<ul style="list-style-type: none"> ● In August 2006 it started services in Mexico's Veracruz and Aguascalientes regions using ● Navini's parent company Ultravisión announced in April 2008 that it would invest
Netherlands Antilles	Scarlet	Navini	<ul style="list-style-type: none"> ● In March 2007 Scarlet began rolling out wireless broadband networking on the island of ● Converted to a Mobile WiMAX network using Navini's Smart WiMAX. Service will begin in
Panama	Liberty Technologies	Navini	<ul style="list-style-type: none"> ● Liberty is an ISP. Announced in September 2006 that it has started implementing
Paraguay	Telecel(TIGO)	Alvarion	<ul style="list-style-type: none"> ● Telecel began collaborating with Alvarion in 2001 and in 2004 began rolling out its ● Service expanded in May 2006 to the cities of Villarrica and Coronel Oviedo. Rollouts planned for.....
	Personal	Redline Alcatel-Lucent	<ul style="list-style-type: none"> ● Personal is a local mobile operator in Paraguay and a subsidiary of

Peru	Americatel Peru	Alvarion	<ul style="list-style-type: none"> Americatel Peru, a long distance telephony company, uses the 3.5GHz spectrum. It is testing.....
	Gamacom	BrightStar	<ul style="list-style-type: none"> BrightStar began providing Peruvian telecom operator ...
	EMAX	Navini	<ul style="list-style-type: none"> EMAX is headquartered in Lima, the capital of Peru, and in June 2007 it launched..... By the end of 2007, EMAX's service was available in cities such as
Puerto Rico	Islanet	Navini	<ul style="list-style-type: none"> Islanet is an ISP that provides wireless business network. In August 2006 it By October 2006 it had over 600 subscribers. The service, known as
	Neptuno	Airspan	<ul style="list-style-type: none"> Neptuno joined hands with Airspan in August 2008 to deploy
El Salvador	CTE Telecom	N.A.	<ul style="list-style-type: none"> CTE, a subsidiary of the Mexican operator America Movil, began
	AT&T	Alvarion	<ul style="list-style-type: none"> By February 2007 AT&T was providing pre-WiMAX services in..... In August 2007 AT&T announced that it will provide WiMAX services in
	Le-Ru Telecom	Airspan	<ul style="list-style-type: none"> Le-Ru Telecom, a WiMAX operator, began upgrading its
	TDS Telecom	Alvarion	<ul style="list-style-type: none"> The TDS, a telecom group, began rolling out 802.16e WiMAX in The previously deployed pre-WiMAX network is
	Arialink	Samsung	<ul style="list-style-type: none"> Arialink and Samsung announced in April 2006 to
	Caltrain	Redline	<ul style="list-style-type: none"> Caltrain teamed up with Intel, Nomad Digital to set up... ..

Solo Direct Connect	Navini	<ul style="list-style-type: none"> • Uses the Navini Smart WiMAX solution and plans to provide.....
Xanadoo Wireless	Navini	<ul style="list-style-type: none"> • Xanadoo, an ISP, began collaborating with Navini. • In September 2007, the WiMAX service began
Clearwire	Motorola	<ul style="list-style-type: none"> • Intel invested US\$600 Million in the company in • Clearwire won a contract to deploy WiMAX services in • Announced in December 2008 that it plans to launch Mobile WiMAX networks in • Slated to begin network deployment in Atlanta.....
Horizon Wi-Com	Navini	<ul style="list-style-type: none"> • Horizon Wi-Com will begin WiMAX network trials in
Towerstream	N.A. Alvarion	<ul style="list-style-type: none"> • Towerstream is a fixed WiMAX service • Towerstream selected 802.16e solution from Alvarion to
Keyon	Airspan	<ul style="list-style-type: none"> • Keyon mainly provides wireless networking, satellite television and • In April 2008 it partnered with Airspan to rollout 3.65GHz WiMAX in
Pipeline Wireless	N.A.	<ul style="list-style-type: none"> • The Boston wireless ISP Pipeline announced in April 2008 that it would use • Collaborated with Redline in August 2008 using
Quad-Cities Online	Nortel	<ul style="list-style-type: none"> • QCO teamed up with Nortel in April 2007 to deploy
Azulstar	Alvarion	<ul style="list-style-type: none"> • Azulstar is an ISP. Collaborated with Alvarion in September 2008 for.....

United States	Digital Bridge	Alvarion	<ul style="list-style-type: none"> ● In September 2007 Digital Bridge began rollouts for ● In February 2008 service coverage was expanded to the...
	Craig Wireless	Alcatel-Lucent	<ul style="list-style-type: none"> ● In April 2008 Craig Wireless announced its plan to
	WaveLinx	N.A.	<ul style="list-style-type: none"> ● WaveLinx is a ISP that serves mainly in Oklahoma and...
	Covad	Axxcelera	<ul style="list-style-type: none"> ● Announced in 2008 that it has completed WiMAX field trial. Serves pre-WiMAX services in
	Rapid Link	N.A.	<ul style="list-style-type: none"> ● Rapid Link, a WiMAX and communication provider, announced in
	Rural Utility Service	Airspan	<ul style="list-style-type: none"> ● Rural Utility Service, an agency under the US department of
	Wisper	Alvarion	<ul style="list-style-type: none"> ● Wisper, a Minnesota-based ISP, established in 2005 and is ● Adopted Alvarion's solution to supply a dual spectrum...
	Nex-Tech	Redline	<ul style="list-style-type: none"> ● Nex-Tech, a subsidiary of Rural Telephone Service Company, selected
	Sprint	Motorola Samsung Nokia-Siemens ZTE Zyxel Ciena Corp	<ul style="list-style-type: none"> ● On August 16, 2007 Sprint stated that it will invest ● Announced in May 2008 that it will aggressively launch ● Sprint announced in December 2007 that its XOHM service would be.....



Nth Air	Airspan	<ul style="list-style-type: none"> • Airspan has an alliance with Fujitsu Network Communications. In
Kiva Networks	Airspan	<ul style="list-style-type: none"> • Conducting trial of WiMAX technology from Airspan in
Alico Systems	Proxim	<ul style="list-style-type: none"> • Used pre-WiMAX technology from Proxim to
SkyRider Communications	Proxim	<ul style="list-style-type: none"> • Provided wireless broadband networking to
Wi-Sky Networks	Proxim	<ul style="list-style-type: none"> • Tried 16d WiMAX-certified equipment from Proxim on
Futura Technologies	N.A	<ul style="list-style-type: none"> • Futura Technologies' WiMAX network rollout in
Fairpoint Communications	Nortel	<ul style="list-style-type: none"> • Fairpoint collaborated with Nortel in October 2008 using
NextPhase Wireless	Aperto	<p style="text-align: center; font-size: 2em; opacity: 0.3; transform: rotate(-30deg); pointer-events: none;">SAMPLE</p> <ul style="list-style-type: none"> • NextPhase Wireless began rollout of WIMAX network in • In June 2009 collaborated with Aperto using the
AMA TechTel	Ceragon Networks	<ul style="list-style-type: none"> • AMA TechTel, the largest telecom operator in
Wes-Tex Telecommunications	Airspan	<ul style="list-style-type: none"> • Wes-Tex Telecommunications is the broadband unit of
One Ring Networks	Redline	<ul style="list-style-type: none"> • One Ring Networks is an ISP that operates fiber and fixed wireless networks. In J.....

<p>Venezuela</p>	<p>Omnivision C.A</p>	<p>Samsung POSDATA DragonWave</p>	<ul style="list-style-type: none"> ● Omnivision is a telecom operator and pay TV operator in ● In 2008 Omnivision began collaborating with Posdata to
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Note 1: The order of countries listed is arranged alphabetically

Note 2: US\$1=0.63 Pound

Source: MIC, April 2009

WiMAX Market Development in Asia as of 1Q 2009

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Country	Operator	Equipment Provider	Status
Afghanistan	Neda Telecommunications	Airspan	<ul style="list-style-type: none"> ● Neda, the largest ISP in Afghanistan, began 802.16d WiMAX service ● At the end of 2007 its coverage included 70% of
Azerbaijan	AzQtel	Navini	<ul style="list-style-type: none"> ● AzQtel is a subsidiary of the Qtel Group. In the first quarter of
	Delta Telecom	Alcatel-Lucent	<ul style="list-style-type: none"> ● In September 2008 Delta Telecom partnered with Alcatel-Lucent to
Bahrain	Bahrain	Redline	<ul style="list-style-type: none"> ● MTC-Vodafone (Bahrain) announced that it would begin ● Plans offer speeds of 512kbps, 1Mbps, ● Expected to use existing spectrum licenses to
	Mena Telecom	Motorola	<ul style="list-style-type: none"> ● In August 2007 Mena Telecom announced that it ● Mena Telecom expects to ● Announced in 2008 that it has completed
Bangladesh	Agni Systems	Motorola	<ul style="list-style-type: none"> ● Agni System is an ISP. Announced at year-end 2006 that it
	BanglaLion	N.A.	<ul style="list-style-type: none"> ● BangaLion acquired a 2.5GHz license at the

Cambodia	Cambodia Data Communications	SOMA Network	<ul style="list-style-type: none"> ● CDC, a Cambodian ISP, provides internet services under ● In 2006 CDC's WiMAX network covered 90% of
	Chuan Wei	Alcatel-Lucent	<ul style="list-style-type: none"> ● Chuan Wei began collaboration with Alcatel-Lucent in
	K-KeyMAX	N.A.	<ul style="list-style-type: none"> ● K-KeyMAX was established in November 2007 to
	CityLink	Redline	<ul style="list-style-type: none"> ● CityLink, an ISP, has chosen Redline's RedMAX product to roll out ● CityLink commenced services in the capital Phnom Penh at the
China	Guangdong Netcom	Alcatel-Lucent	<ul style="list-style-type: none"> ● Guangdong Netcom uses 600 802.16d 7387 WiMAX systems from
	China Mobile	N/A	<ul style="list-style-type: none"> ● In August 2007 China Mobile began requesting bids for ● The Qingdao Olympic Sailing Center will have
	CECT-Chinacomm	ChinaTel	<ul style="list-style-type: none"> ● CECT-Chinacomm, a Chinese wireless broadband operator, owns.....
	Airway	Samsung Posdata	<ul style="list-style-type: none"> ● Airway and Daiwa Securities raised ● Collaborated with Korean Posdata for

India	Sify Limited	Proxim	<ul style="list-style-type: none"> ● Sify is the largest e-commerce company in ● Announced in July 2008 that it has.....
	Bharti Airtel	Alvarion	<ul style="list-style-type: none"> ● Bharti Airtel began providing Fixed WiMAX services in... .. ● In June 2008 Airtel deepened its
	Aircel	Alvarion	<ul style="list-style-type: none"> ● Aircel, a mobile phone service provider, collaborated with
	VSNL	Aperto	<ul style="list-style-type: none"> ● VSNL began offering its service in Bangalore in ● VNSL plans to expand its rollout to 11 other cities by
	Tata Communications	Telsima	<ul style="list-style-type: none"> ● Tata Communications plans to invest ● Tata's services began for enterprise and
	Reliance Globalcom	N.A.	<ul style="list-style-type: none"> ● Announced in April 2008 that it will

	BSNL	Aperto SOMA Network	<ul style="list-style-type: none"> ● WiMAX planning at BSNL for 2008-2009 calls for ● BSNL's WiMAX service will initially be..... ● OMA Network and BSNL collaborated at the..... ● In June 2007 India's telecommunications regulator DoT indicated that it..... ● Announced in July 2008 to implement Mobile WiMAX network trial in ● In September 2008 BSNL planned to invite bids to lure new WiMAX equipment providers for..... ● In February BSNL announced the finalists for its equipment tender: including Huawei, ● Service began in Gujarat in March 2009, with the number of
Indonesia	CSM	Aptilo Aperto	<ul style="list-style-type: none"> ● Indonesian satellite broadband operator CSM announced in April 2008 that it will
	Leenar Capital Indonesia	SR Telecom	<ul style="list-style-type: none"> ● Leenar Capital, a Indonesian privately owned company, announced in October 2008 that it will

Iraq	Iraqtel	Redline	<ul style="list-style-type: none"> ● Iraqtel is the telecom subsidiary of Al Emaar. Announced in November 2005 to
	Kalimat	Redline	<ul style="list-style-type: none"> ● Kalimat, a Iraq-based telecom operator, own a 10-year wireless license from
Israel	012 Smile Communications	N.A.	<ul style="list-style-type: none"> ● Smile Communications is a division of ● In April 2008 Smile announced that it had
	MIRS Communications	N.A.	<ul style="list-style-type: none"> ● MIRS, a subsidiary of Motorola, announced in ● In December 2008 Smile announced that it has negotiated with
Japan	Yozan	Air	<ul style="list-style-type: none"> ● Yozan's WiMAX rollout in Tokyo has completed with over ● In mid-2007, Yozan decided to temporarily suspend its
	Japan Telecom	Flarion	<ul style="list-style-type: none"> ● In 2005, Japan Telecom and the Tohoku University partnered to setup
	UQ Communications	Samsung Fujitsu Modacom	<ul style="list-style-type: none"> ● Samsung announced that KDDI would adopt its..... ● KDDI received a 2.5GHz spectrum license at the end of ● UQ Communications is a joint venture set up by..... ● Began testing using Samsung's Mobile WiMAX Wave 2 products in

			<ul style="list-style-type: none"> ● Trial services began in the 23 wards of Tokyo, Kawasaki, and
			<ul style="list-style-type: none"> ● In March 2009, UQ Communications said it would raise
	Hokkaido Seiko Time Systems	Airspan	<ul style="list-style-type: none"> ● Hokkaido Seiko Time purchased the Airspan BreezeAccess network.....
	eAccess	N.A.	<ul style="list-style-type: none"> ● eAccess, Softbank, and Goldman Sachs, which had teamed up for ● Expressed their concerns over WiMAX development in
	NTT DoCoMo	Alvaton	<ul style="list-style-type: none"> ● Began trialing WiMAX 16e in
Jordan	Umniah Mobile Company	Airspan	<ul style="list-style-type: none"> ● Umniah is a leading telecommunications operator in ● Umniah will use the HiperMAX base station from..... ● By April 2008 its WiMAX network coverage covered.....
	Wi-tribe	Airspan	<ul style="list-style-type: none"> ● Wi-tribe is a joint venture set up between
	ACT Jordan	Airspan	<ul style="list-style-type: none"> ● ACT owns the license for the ● In 2008 ACT plans to rollout 802.16e networks and.....
	MADA	Motorola	<ul style="list-style-type: none"> ● Jordanian telecom operator MADA owns a ● MADA announced in March 2009 that its

Korea	Korea Telecom	Samsung POSDATA	<ul style="list-style-type: none"> ● KT, the largest telecom operator in Korea, announced its ● The KCC (Korea Communications Commission) announced in
			<ul style="list-style-type: none"> ● As of year-end 2007, KT's WiBro network coverage included
	SKT	Samsung	<ul style="list-style-type: none"> ● SKT, a telecom operator, announced in
Kuwait	Arab Telecom	Aperto	<ul style="list-style-type: none"> ● Arab Telecom adopts PacketWave base station equipment supplied by
Laos	Sky Telecom	Aperto	<ul style="list-style-type: none"> ● Sky Telecom and Aperto partnered to conduct
Lebanon	PESCO Telecom	Aperto	<ul style="list-style-type: none"> ● In February 2008 PESCO announced that it had
	Comium Data Lebanon	Redline	<ul style="list-style-type: none"> ● CDL is a subsidiary of ● Rollout of nationwide WiMAX network is expected to
	NasionCom	Alcatel-Lucent	<ul style="list-style-type: none"> ● NasionCom and Deutsche Telekom AG partnered in..... ● The rollout had three phases. The Klang Valley network was ● Currently NasionCom
	Maxis	Alcatel-Lucent	<ul style="list-style-type: none"> ● Maxis is an ISP. In December 2006 the company collaborated with
	YTL e-Solutions	Cisco-Navini	<ul style="list-style-type: none"> ● Malaysian YTL, a subsidiary of YMN (Y-Max Networks) is ● Collaborated with Sprint's XOHM in the end of June 2008 to leverage ● In November 2008, YMN and Cisco formed strategic alliance, whereby Cisco will

	Asiaspace	Huawei	<ul style="list-style-type: none"> ● Asiaspace is a broadcasting and telecom network infrastructure company and..... ● Began large-scale WiMAX rollouts in June 2008, with a total investment of.....
Malaysia	REDtone Telecommunications Sdn Bhd.	Motorola	<ul style="list-style-type: none"> ● REDtone Telecommunications Sdn Bhd, a subsidiary of ... ● Began first phase WiMAX rollouts in August 2008, covering ● In December 2008 REDtone and Packet One involved in ...
	Packet One Networks	Alcatel-Lucent ZTE	<ul style="list-style-type: none"> ● Packet One is a subsidiary of the ● Phase one: Plans to roll out WiMAX in June 2008 from Kedah on the ● Phase two: the network will achieve 40% coverage by..... ● Announced in August 2008 that it will ● Announced in September 2008 that it will..... ● Announced in December 2008 that it has..... ● Began collaboration with ZTE in ● Investment estimated at US\$28 million in
Mongolia	Ulusnet	Airspan	<ul style="list-style-type: none"> ● Ulusnet is a subsidiary of Mobicom. Established in 2005, it was the earliest
Myanmar	RedLink	N.A.	<ul style="list-style-type: none"> ● RedLink began expanding its WiMAX network in

Pakistan	Wateen Telecom-Pakistan	Motorola BroadHop	<ul style="list-style-type: none"> ● Announced in February 2007 that after nine months of..... ● At the end of October 2008, Wateen and
	Mobilink	Motorola Alcatel-Lucent Huawei	<ul style="list-style-type: none"> ● At the end of 2007 Mobilink began ● Announced in July 2008 that it will adopt ● Announced in November 2008 that it will launch
	Dancom	Redline	<ul style="list-style-type: none"> ● Dancom is a subsidiary of Dancom Malaysia. Planned to begin ● The main WiMAX rollout networks are.....
	MyTel	Redline	<ul style="list-style-type: none"> ● Has begun deploying RedMAX equipment from
	Warabe Burraq	Redline Motorola	<ul style="list-style-type: none"> ● Qtel and Turki purchased a ● Burraq activated wireless broadband services in ● Motorola began deploying 3.5GHz spectrum WiMAX in
The Philippines	Smart Communication	Motorola	<ul style="list-style-type: none"> ● Began promoting the Wi-Fi/WiMAX hybrid.....
	Globe Telecom	Huawei	<ul style="list-style-type: none"> ● Globe Telecom is an ISP. The company announced in
			<ul style="list-style-type: none"> ● Globe Telecom started cooperation with Huawei in.....
Prime Communications	N/A	<ul style="list-style-type: none"> ● Pacific Internet (now called Prime Communications) announced the investment of ● Prime's parent company is ● Prime plans to roll out WiMAX networks at year-end 2008 to..... 	
Qatar	Vodafone Qatar	N.A.	<ul style="list-style-type: none"> ● Vodafone Qatar, a JV between Vodafone and Qatar Foundation, has won

Saudi Arabia	Mobily	Aperto Motorola	<ul style="list-style-type: none"> ● Mobily is the second largest GSM operator in ● Mobily announced in May 2008 that it will add..... ● In September 2008 began its rollout in four major cities:
	Ethad Atheeb Telecommunication	Motorola	<ul style="list-style-type: none"> ● In March 2008 the Saudi telecom operator Atheeb invested
	Bayanat Al-Oula	Samsung	<ul style="list-style-type: none"> ● In January 2007 the new communications company Bayanat Al-Oula signed a..... ● Bayanat Al-Oula planned to start WiMAX service in four cities: ● Acquired by Mobily at.....
	ITC	Redline	<ul style="list-style-type: none"> ● In the third quarter of 2007 ITC launched its ● ITC also announced on its website that it would
	Saudi Telecom	Huawei Redline AirSpan	<ul style="list-style-type: none"> ● Saudi Telecom is the largest telecomm operator in ● Saudi Telecom has chosen Huawei to provide equipment such as ● Completed first phase WiMAX deployment in
Singapore	Qala Singapore	Navini Posdata	<ul style="list-style-type: none"> ● Qala began commercial services at the start of 2006 in ● QMax partnered with Posdata in 2007 to rollout Mobile WiMAX for.....
	SingTel	AIRCOM International	<ul style="list-style-type: none"> ● SingTel is a multinational telecom based in Singapore. In April 2008 it
Sri Lanka	Lanka Internet	Redline	<ul style="list-style-type: none"> ● Using the 2.5GHz spectrum, the trial tested for.....
	Lanka Bell	N.A.	<ul style="list-style-type: none"> ● Using Redline's solution, Lanka Internet, a Sri Lanka-based
	Dialog Telekom	N/A	<ul style="list-style-type: none"> ● Dialog, Sri Lanka's largest mobile operator, stated in.....

Taiwan	FET Telecom	Motorola Nortel Alcatel-Lucent	<ul style="list-style-type: none"> ● Announced in October 2007 that it will adopt Nortel's product for..... ● Motorola, Nortel and Alcatel-Lucent were selected by.....
	FITEL	Motorola UTStarcom	<ul style="list-style-type: none"> ● FITEL (First International Telecom) acquired a license in ● Due to a shortage of funds, FITEL postponed WiMAX rollouts in
	Tatung Telecom	Alcatel-Lucent	<ul style="list-style-type: none"> ● Acquired a license to operate WiMAX services in ● Announced in November 2008 that it will launch WiMAX services in ● November 2008 Tatung launched a WiMAX promotional package for.....

	Vastar Cable TV	N.A.	<ul style="list-style-type: none"> ● Announced in December 2008 that it will begin operations in.....
	Vmax	Samsung Tecom	<ul style="list-style-type: none"> ● Vmax, a joint venture between Tecom and 3G network operator Vibo Telecom. In October 2008..... ● In December 2008, Vmax and Samsung signed a
	Global One	N.A.	<ul style="list-style-type: none"> ● Acquired a license to operate WiMAX services in
	CHT	Nortel Alcatel-Lucent	<ul style="list-style-type: none"> ● Chunghwa Telecom (CHT) announced in September 2005 to ● Announced in March 2007 that it will adopt Alcatel-Lucent's product for..... ● Announced in February 2008 that the WiMAX network in... ..
Tajikistan	Babilon-T	Huawei	<ul style="list-style-type: none"> ● Babilon-T, located in Central Asia, began rolling out Mobile WiMAX in

Thailand	United Information Highway	Motorola	<ul style="list-style-type: none"> • UIH is a joint venture set up between Benchachinda Holding and the..... • In February 2008 it announced its plan to trial 2.5GHz WiMAX along.....
	True Corp	Alcatel-Lucent	<ul style="list-style-type: none"> • True, the only integrated service provider in Thailand, announced in
	TT&T	Navini	<ul style="list-style-type: none"> • TT&T is an ISP. Announced in July 2008 to implement a... .. • In November 2008 Thailand's telecom operator.....
	Advanced Info Services	N.A.	<ul style="list-style-type: none"> • AIS, a mobile operator, announced at the end of • AIS began WiMAX trials in Bangkok and Lamukka in.....
	Loxley Wireless	Nortel	<ul style="list-style-type: none"> • Nortel and the Loxley Group collaborated on.....
Vietnam	Vietnam Data Communications	Motorola	<ul style="list-style-type: none"> • VDC (Vietnam Data Communications) has acquired government approval for • Signed trial agreement with Motorola to deploy its
	FPT Telecom	N.A.	<ul style="list-style-type: none"> • FPT Telecom, which has a 2.3GHz trial license, began testing in
	Viettel	N/A	<ul style="list-style-type: none"> • Viettel, Vietnam's military telecommunications operator, began conducting a • At the end of March 2008, four telecom operators including • FPT's major trial regions are mainly in Hanoi and Hai Phong, EVN's are in

Note 1: The order of countries listed is arranged alphabetically

Note 2: US\$1 = NT\$34.67; US\$1= 93.68 Yen; US\$1=6.84 RMB; US\$1=49.91 Rupees; US\$1=3.75 Riyal; US\$1 = 35.48 Baht

Source: MIC, April 2009

WiMAX Market Development in Africa as of 1Q 2009

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Country	Operator	Equipment Provider	Status
Algeria	Algerie Telecom	Galaxia Telecom International	<ul style="list-style-type: none"> In February 2008 Canada's Galaxia Telecom International announced its plan to
	Icosnet	Aperto	<ul style="list-style-type: none"> Icosnet is an ISP. In May 2008 it used the Aperto PacketMax solution to
Angola	Mercury Telecommunications	Alvarion Bridgewater Systems	<ul style="list-style-type: none"> MSTelcom, a telco in Angola, will receive assistance from
	Maxnet	Maxnet	<ul style="list-style-type: none"> Maxnet is an ISP. In 2005 it started to deploy a pre-WiMAX network in the.....
	Mundo Startel	ZTE	<ul style="list-style-type: none"> Mundo Startel is a telecom operator. In January 2006 it started to
	ACS	Motorola	<ul style="list-style-type: none"> ACS launched commercial service in
Botswana	Orange Botswana	Alvarion	<ul style="list-style-type: none"> In July 2008 the operator Orange started the WiMAX network service Orange and Alvarion completed mobile WiMAX deployment in.....
	Netspread	Airspan Networks	<ul style="list-style-type: none"> Netspread is an ISP. In September 2008 it signed a contract with.....
Burkina Faso	Government of Burkina Faso	Alvarion	<ul style="list-style-type: none"> In March 2009, the Ministry of Posts and Information Communication Technology of

Cameroon	MTN Cameroon	Redline	<ul style="list-style-type: none"> ● At the end of 2007 MTN began using Redline's RedMAX product to roll out ● After this stage is completed, it is expected that it will serve 700 business clients and ● MTN plans to aggressively deploy WiMAX networks in Ghana after obtaining a frequency license ● By December 2008, MTN already offered
	Orange Cameroon	N.A.	<ul style="list-style-type: none"> ● Orange, a French mobile operator, began rolling out an integrated mobile WiMAX/GSM network at..... ● In 2008 Orange began rolling out WiMAX in Central African nations such as
	Airtel Telecom Group	SR Telecom	<ul style="list-style-type: none"> ● Canadian Airtel Telecom Group (ATG) is a partner of... ..
Democratic Republic of the Congo	Microcom	Alvarion	<ul style="list-style-type: none"> ● Microcom is an ISP in Congo. In April 2005 it signed a contract with Alvarion for.....
	Cielux Telecom	Alvarion	<ul style="list-style-type: none"> ● Cielux Telecom and Alvarion began mobile WiMAX deployment in ● First-phase deployment began in Kinshasa and
Egypt	Egypt Government	SR Telecom Aperto	<ul style="list-style-type: none"> ● In 2006 Intel cooperated with the Egyptian government, setting up ● Led by USAID, SR Telecom, T.E Data and TeleTech jointly established..... ● The Egyptian government began rolling out mobile WiMAX at major government offices.....
	EgyNet Alkan Telecom	Redline	<ul style="list-style-type: none"> ● Alkan Telecom has obtained contract for a civil defense network in the ● EgyNet uses Redline's RedMAX products in Sharm el-Sheikh. The expected number of.....

Gabon	IBN Corporate	Redline	<ul style="list-style-type: none"> ● IBN began offering WiMAX service in the capital Libreville in.....
Ghana	Ghana Telecom	Alvarion	<ul style="list-style-type: none"> ● Ghana Telecom purchased US\$4 million worth of.....
	Network Computer Systems	Redline RapidCloud Technology	<ul style="list-style-type: none"> ● Network Computer Systems (NCS), the Ghana.com service provider NetSAT.....
Ivory Coast	Arobase Telecom	Alvarion	<ul style="list-style-type: none"> ● Arobase Telecom started a pre-WiMAX network in Abidjan in.....
Kenya	Kenya Data Networks	Alvarion	<ul style="list-style-type: none"> ● KDN is an ISP that began rolling out its 802.16d WiMAX network in
	UUNET Kenya	Redline	<ul style="list-style-type: none"> ● UUNET is an ISP and in March 2008 partnered with
	Access Kenya	Alvarion	<ul style="list-style-type: none"> ● Access Kenya is an ISP providing VoIP and broadband services to ● In July 2008 it announced that it would use equipment provided by.....
	Wananchi Telecom	N.A.	<ul style="list-style-type: none"> ● Kenyan ISP Wananchi Telecom announced in July 2008 that it would ● In November 2008 it deployed 100 base stations, covering
	IGO Wireless	Redline	<ul style="list-style-type: none"> ● IGO began rolling out WiMAX in the capital Nairobi and its surrounding areas in
	One Communications	Airspan	<ul style="list-style-type: none"> ● One Communications (OneCom) is an ISP in Kenya. The mobile operator Safaricom owns.....
Lesotho	Vodacom Lesotho	Airspan	<ul style="list-style-type: none"> ● In April 2008 Vodacom and Airspan signed a contract to cooperate on WiMAX network

Libya	Libya Telecom & Technology	ZTE Alcatel-Lucent	<ul style="list-style-type: none"> ● Libya T&T began rolling out an 802.16e WiMAX network in eight major cities at the start of ● In April 2008 it used Alcatel-Lucent equipment to deploy a WiMAX network in..... ● Commercial services started in the first quarter of 2009. The network will.....
Madagascar	Gulfsat	Alvarion	<ul style="list-style-type: none"> ● Gulfsat is an ISP in Madagascar. Since 2003 it adopted Alvarion's BreezeACCESS products to.....
Mauritania	Chinguitel	ZTE	<ul style="list-style-type: none"> ● Mauritanian Chinguitel is a subsidiary of the Expresso Telecom Group (ETG). In October 2008.....
Republic of Mauritius	Emtel	Alvarion	<ul style="list-style-type: none"> ● At the end of 2007 Emtel adopted Alvarion's BreezeMAX solution to deploy
	Non ad	Navini	<ul style="list-style-type: none"> ● Nomad is an ISP and its parent company is Digital Bridges Networks. In 2005 it began rolling ● In 2008 it would increase its coverage by another..... ● WiMAX/GSM combined network services are expected to
Morocco	Wana	Alcatel-Lucent Cambridge Broadband Networks	<ul style="list-style-type: none"> ● Wana, a local ISP in Monaco, announced at the start of ● In March 2008, it signed a 24 million Euro contract with
Mozambique	Teledata Mozambique	Redline	<ul style="list-style-type: none"> ● In June 2007 Teledata selected Redline's RedMAX product. The service was.....
	Foris Telecom	Runcom	<ul style="list-style-type: none"> ● In February 2009, Foris Telecom cooperated with chipset supplier Runcom on
Namibia	Telecom Namibia	Alvarion	<ul style="list-style-type: none"> ● In February 2007 Telecom Namibia began rolling out... ..
	MWeb	N.A.	<ul style="list-style-type: none"> ● MWeb Namibia is the largest ISP in Namibia and began

Nigeria	Monarch Communications	Alvarion	<ul style="list-style-type: none"> ● Monarch Communications is a privately-owned telecom operator that ● In November 2007 Monarch adopted Alvarion's 4Motion solution for..... ● Rollout would initially be in
	Hyperia	Navini	<ul style="list-style-type: none"> ● In February 2007 Hyperia began rolling out
	Yobe State Government	N.A.	<ul style="list-style-type: none"> ● The Yobe state government announced in
	ipNX	South African networks	<ul style="list-style-type: none"> ● ipNX is a Nigerian operator. In May 2007 it deployed an ● In Lagos it deployed 25 base stations, covering
	DOPC	Navini	<ul style="list-style-type: none"> ● DOPC is an ISP. In July 2007 it started deploying an
	Startech Connections	Alvarion	<ul style="list-style-type: none"> ● Using BreezeMAX technology from Alvarion to roll out
South Africa	Telkom South Africa	Alvarion	<ul style="list-style-type: none"> ● Telkom began rolling out WiMAX along the South African coast and in
	Neotel	Telsima	<ul style="list-style-type: none"> ● Neotel is a telecom operator in South Africa. It announced in May 2008 that it would.....
	Sentech	N.A.	<ul style="list-style-type: none"> ● Sentech, an ISP, in September 2007 announced its plan to roll out ● The rollout would take 10-15 years and the WiMAX network would be..... ● The South African telecom regulator in July 2008 announced that it had demanded

	Wireless Broadband Solutions (iBurst)	Alcatel-Lucent Huawei	<ul style="list-style-type: none"> WBS is an ISP. Its network brand is iBurst, and the main investor is In October 2008 it started to provide commercial WiMAX services. In Johannesburg,
	MWeb	N.A.	<ul style="list-style-type: none"> MWeb, an ISP, received approval from the South African telecommunications regulator ICASA in..... MWeb announced in April 2008 that it had completed its
Tanzania	Hotspot	Redline	<ul style="list-style-type: none"> Hotspot, a regional telecom operator in Tanzania, Phase two was kicked off in January 2008 and After these two phases are completed, the number of
Tunisia	Divona Telecom	Redline Juniper Networks	<ul style="list-style-type: none"> Divona, a satellite and WiMAX service provider, began rolling out In October 2008 Divona Telecom chose the MX-series network routers of
	Telecom Tunisia	N.A.	<ul style="list-style-type: none"> In 2008 a local education and training organization in
Uganda	Warid Telecom	Motorola	<ul style="list-style-type: none"> Warid Telecom, a telecom group, partnered in
	MTN Uganda	Alvarion	<ul style="list-style-type: none"> MTN Uganda is the second largest telecommunications operator in The rollout was planned to start from the capital Kampala and be
Zambia	ZAMNET	Navini	<ul style="list-style-type: none"> ZAMNET is an ISP. In May 2007 it cooperated with

Note 1: The order of countries listed is arranged alphabetically

Note 2: US\$1= 0.72 Euro

Source: MIC, April 2009

WiMAX Market Development in Oceania as of 1Q 2009

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Country	Operator	Equipment Provider	Status
Australia	Unwired Australia	Navini	<ul style="list-style-type: none"> In October 2008 it announced that it would upgrade ...
	Austar United Communication	Navini Nortel	<ul style="list-style-type: none"> Austar, a cable TV service provider, is aggressively rolling out a
	Agile Communications	Airspan	<ul style="list-style-type: none"> Agile Communications is a subsidiary of the.....
	Allegro Networks	Alvarion	<ul style="list-style-type: none"> Queensland wireless ISP Allegro Networks announced that it
	Big Air	Airspan	<ul style="list-style-type: none"> BigAir used Airspan's 5.8GHz WiMAX base stations to roll out its network in In October 2008 it rejected a takeover bid from its
Fiji	Fiji International Communications	Alvarion	<ul style="list-style-type: none"> FINTEL is a privately-owned sea-cable communications company. In December 2006 it.....
New Zealand	Otago Polytechnic	Proxim	<ul style="list-style-type: none"> Covers four school districts as well as satellite stations in
	Airnet New Zealand	N.A.	<ul style="list-style-type: none"> Airnet is an ISP in New Zealand. At the end of 2005 it cooperated with.....
	Woosh Wireless	N.A.	<ul style="list-style-type: none"> At the end of 2006 Woosh announced its plan to roll out a city-wide mobile WiMAX network in..... In 2008, Woosh Wireless announced that it would.....
	Natcom	N.A.	<ul style="list-style-type: none"> Natcom, an ISP, began rolling out an experimental WiMAX network based on.....
			<ul style="list-style-type: none"> Callplus, with its Slingshot network brand, is New Zealand's third largest household telecom service.....

	Callplus	Alvarion	<ul style="list-style-type: none"> • In 2006 Callplus began investing NZ\$3 million in Whangarei in northern New Zealand for • The 2.3GHz and 2.5GHz spectrum auction results were announced. Telecom New Zealand, Vodafone.....
Tonga	Tonga Communications Corporation	Alvarion	<ul style="list-style-type: none"> • Tonga Communication is a state-owned telecommunications company. In September 2006 it

Note 1: The order of countries listed is arranged alphabetically

Note 2: US\$1=NZ\$1.97

Source: MIC, April 2009

Appendix

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Research Scope

This research focuses on WiMAX (World Interoperability for Microwave Access). WiMAX is a point-to-multipoint wireless broadband access technology conforming to the IEEE (Institute of Electrical and Electronics Engineers) 802.16 standards. Main technologies comprise 802.16d and 802.16e. In comparison with Wi-Fi, another wireless Internet access technology based on the IEEE 802.11 standard, WiMAX enables faster data transmission and has a wider range. WiMAX supports three types of access: fixed, nomadic, and mobile.

Geographic Definitions

Asia

China, Taiwan, South Korea, Japan, Bangladesh, Bhutan, India, Indonesia, Malaysia, Mauritius, Nepal, North Korea, Seychelles, Sikkim, Singapore, Sri Lanka, Thailand, The Philippines, Vietnam, Aman, Armenia, Azerbaijan, Bahrain, Cyprus, Georgia, Iran, Israel, Jordan, Kuwait, Lebanon, Palestine, Qatar, Saudi Arabia, Turkey, United Arab Emirates, Yemen

Americas

United States, Canada, Argentina, Bahamas, Belize, Bolivia, Brazil, Chile, Colombia, Costa-Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, Venezuela

Europe

Albania, Andora, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, England, Finland, France, Germany, Gibraltar, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Malta, Moldavia, Montenegro, Netherlands, Norway, Portugal, Romania, Russia, San Mareno, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Ukraine, Vatican

Oceania

Australia, Fiji, Nauru, New Zealand, Saipan, Tahiti, Tonga, Western Samoa

Africa

Algeria, Congo, Djibouti, Egypt, Ethiopia, Ivory Coast, Kenya, Lesotho, Liberia, Libya, Morocco, Mozambique, Somalia, South Africa, Sudan, Swaziland, Tanzania, Tunisia, Uganda, Western Sahara, Zimbabwe