

Opinion

The View from the Top: How Green is My Teleport?

by Robert Bell
Executive Director,
World Teleport Association

Despite the disappointments of the Copenhagen climate talks, climate change is fast becoming a reality for business. It is partly a matter of planning for the future. The political battles rage on, taking different paths in different parts of the world, but the overall trend is clear. Activities that produce greenhouse gases will be penalized economically. More efficient use of resources from energy to water will become a high priority. Companies face a choice of when, not if, to “go green.”

A spoonful of fact – underappreciated until recently – is helping this medicine go down. Producing less waste and using resources more efficiently can be good for the bottom line. True, installing systems to monitor, manage and reduce electric consumption seems a burden – until you see hundreds of thousands of dollar or Euros vanish from the cost structure.

In 2010, WTA introduced a “Green Teleport” campaign to encourage the operators of teleports to take a fresh look at their energy use and find ways to manage it downward, both to save money and reduce their carbon footprint. The digital revolution has transformed today’s teleports into data centers – though with

(Continued on page 6)

Looking Ahead in the Middle East Satellite Market

by Bruce Elbert
President
Application Technology Strategy, Inc.

Markets for satellite communications equipment and services have expanded to fill the gaps in terrestrial broadcasting and telecommunications networks. Nowhere is this more apparent

than in the Middle East, which is the focus of this article. Comprising this picture are satellite operators, such as Arabsat and NileSat; teleport operators in countries such as Dubai, Egypt and Jordan; and service providers who utilize these facilities to deliver applications to their Middle Eastern customers such as Very Small Aperture Terminal (VSAT) services in a two way satellite communications format using a particularly small dish to transmit credit card transactions and Internet services.

Satellite TV is very important as it occupies most of the available transponders in the region. The majority of satellite TV, roughly 75%, is offered Free-To-Air (FTA) with revenue generated through advertising or subsidized for some other purpose such as education. Availability and low cost make satellite TV more important in the Middle Eastern market than

most other applications, but we anticipate broadband Internet to gain more prominence in the future.



An explosion of programming is driving demand for satellite services in the Middle East. (Photo taken at the SAMACOM Teleport in Dubai).

Satellite Operators in MENA

Arabsat has ordered two major new satellites, Arabsat 5A and BADR 5, from a consortium of EADS Astrium and Thales Alenia Space. To properly address markets for the next 20 years, Arabsat 5A will have

(Continued on page 4)

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Introducing MarketBriefs and MarketPlace



This week we are introducing two new products that will provide you with more access to actionable information in the form of market intelligence on specific regions or markets segments and product and services profiles being showcased in major trade shows. For the initial **MarketBriefs** edition, we are focusing on the Middle East Satellite Market. **MarketBriefs** is a comprehensive report on either a region or an application, for example for future issues we are planning **MarketBriefs** on the Military Satellite market and 3-D TV. Watch out for those in the coming months.



Meanwhile, the Products and Services **MarketPlace** is a guide to the products and services being showcased at major trade shows. This week, we are featuring products and services that will be showcased in the Cabsat/Satellite MENA exhibition in Dubai the UAE from March 2-4. Whether you will be at the show or not, you will have access to the latest products and technology at the show. Check out the latest edition of the Products and Services **MarketPlace** on pages 8-10 of this issue.

As with all our core products, the **MarketBriefs** and **MarketPlace** are provided free-of-charge to our readers. You can download copies from our website at www.satellitemarkets.com or pick up a printed version at trade shows such as this week's Cabsat/Satellite MENA in Dubai.

Virgil Labrador

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The Middle East Market, from page 1

16 C-band and 24 Ku-band transponders to replace Arabsat 2B. BADR-5 and provide full in-orbit back-up for BADR -4 and BADR-6 at the 26 ° E hot spot covering the Middle East.

Recently, NileSat has partnered with European service provider Eutelsat to provide coverage for the MENA region from 7° W. With the launch of NileSat 201 in 2010, the two companies will boost capacity in the neighborhood by 30%. This partnership should provide stability and investment, allowing NileSat to control its market.

NileSat 201, constructed by Thales Alenia Space is scheduled to be launched in mid- 2010 by Arianespace.

Current plans announced by Yahsat have the first satellite going up into an orbital position of 52.5 ° E in 2011 with the second following within a few months. Yahsat will lease capacity to existing providers and the UAE government with a focus on broadband, broadcast and corporate networking services. A partnership with SES ASTRA established YahLive, a new DTH satellite TV service. The satellite broadband service, YahClick, will launch when Yahsat 1b does in 2011. YahClick will offer broadband interactive services using ViaSat SurfBeam technology at Ka-band. It is believed demand will still be sufficient to support these as well as two other YahSat brands providing

backhauling services and government applications to fixed and mobile users.

The Intelsat fleet maintains about a dozen satellites located at various points between 33° E and 85° E with footprints that include the Middle East, providing a variety of services for various customers and partners. Intelsat 15, a new Ku-band satellite built by Orbital Sciences and launched late in 2009, provides VSAT services to corporate and government customers. Services to military and the international media are among Intelsat’s strengths due to their global footprint and experience serving these sectors. There are plans to launch Intelsat 22 to 72° E in 2012 for increased coverage of the MENA region with connectivity into Europe.

Eutelsat has an ongoing partnership with NileSat to develop their constellation at 7° E. Aside from broadcasting services, Eutelsat also provides corporate data networks and broadband services such as IP backbone connectivity, on-the-move broadband access, Virtual Private Networks (VPN) and IP content distribution. The IT-centric focus

NileSat 201, constructed by Thales Alenia Space will be launched in mid- 2010 by Arianespace. (image from Thales Alenia Space)

of Eutelsat, through a partnership with ViaSat, gives them a potential edge in growing their ME business.

Thuraya is another important operator based in the UAE providing



Equipment for Thuraya’s IP broadband Internet service. (photo courtesy of Thuraya).

mobile satellite service (MSS) from the geostationary orbit. Their small satellite phone has good penetration throughout MENA and South Asia. The transition to Internet Protocol (IP) transmission for all information types will increase the attractiveness of Thuraya’s versatile system, which can serve both fixed and mobile users.

Applications Driving Demand for Services

Today, Free to Air (FTA) satellite TV relies on the same digital TV platforms that made DIRECTV, DISH and BSkyB into mega-businesses, but MENA viewers watch the programming without paying. Payment for satellite capacity comes from the program or network provider, who leases bandwidth and arranges for the uplink. The source of their money depends on the region and content, which can be derived from advertisers, governments, religious groups or other organizations wishing to transmit a message.

The power of FTA in MENA was summed up by Jawad J. Abbassi, founder and general manager of Arab Advisors Group: “In other parts of the world, the ‘Information Revolution’ was played out on the Internet, but in the MENA region, it took place over Satellite TV.”



Two-way satellite broadband, using VSATs, is establishing itself in MENA. For the purpose of this article, we define broadband satellite service as one capable of at least 1 Mbps data rate on the forward and return links. The general trend is to offer asymmetrical bandwidth, with the forward link providing download speeds up to 10 Mbps and the return link upload rate between 500 kbps and 2 Mbps. Pricing is dictated by these data rates.

Several factors are making this form of communications more readily available at acceptable costs: the coverage ability of the new generation of GEO satellites at Ku and Ka bands; the remarkable new performance and features of VSAT terminals for fixed, transportable and mobile installation; and the array of service providers who invested in hubs and support organizations.


A large part of the investment and operating cost is due to the hub station; satellite bandwidth is another relatively-high monthly expense. The substantial hurdle has been reduced by low-cost hub solutions from iDirect, ND SatCom and Newtec. New investment in hub capabilities includes MENOS and Internet Start, two ventures marketing VSAT equipment and operation to end users in the public and private sectors.

Prospects and Opportunities in the Market

The Cabsat/Satellite MENA event to be held from March 2-4, 2010 comes at a difficult time for MENA as well as the rest of the world, as witnessed by financial difficulties experienced in the

host city of Dubai. However, there is already a very substantial base of satellite investment and the region is well covered. This means the infrastructure is in place to meet current and developing demand. There is no need to roll out major fiber or 3G because even remote areas are with easy reach.

Like the history of satellite communications in other regions, MENA is rich in experience and unique in its perspective. As indicated by Scott Sobhani, there is demand for current and evol-

ving services, and some new operators are finding opportunities for investment. Currently, nearly all requirements are met through standard Ku-band satellites using the resources of media cities and a mix of local and foreign ground resources. MSS L-band is provided through Thuraya in a focused manner, and Ka band is arriving on the scene in the next year. These can further shape the telecommunications scene in MENA in ways much different from North America and Western Europe. 



Bruce Elbert has over 30 years of experience in satellite communications and is the President of Application Technology Strategy, Inc., which assists satellite operators, network providers and users in the public and private sectors. He is an author and educator in these fields, having produced seven titles and conducted technical and business training around the world. During 25 years with Hughes Electronics, he directed major technical projects and led business activities in the U.S. and overseas. He is the author of *The Satellite Communication Applications Handbook*, second edition (Artech House, 2004). Web site: <http://www.applicationstrategy.com/> Email: bruce@applicationstrategy.com

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Application Technology Strategy, Inc.

Application Technology Strategy, Inc. (ATSI) is the satellite consulting firm founded by Bruce Elbert, leading satellite expert, consultant, technologist, educator and author of standard industry books.

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How Green is your Teleport?, from page 1

much richer options for communications than the typical “glass house.” And on present trends, in the US alone, data centers are forecast to consume 12 gigawatts of power at a cost of \$7.4 billion by 2011, according to the Environmental Protection Agency. The energy they consume will churn out 79 million metric tons of carbon dioxide. By 2020, McKinsey & Co. expects them to be producing more CO² than the airline industry.

So clearly, reducing teleport energy usage would be good for the planet. If done properly, it can be good for the bottom line of teleport operators. This was brought to WTA’s attention by Mary Frost, president of Power to Change US, former president of Globe-Cast America and until recently a member of our Board. In research with teleport operators, she identified opportunities to reduce energy consumption at a typical teleport by up to \$300,000 through changes to business practices and facility design. That’s real money – and it may be just the start.

For our campaign, we have published an introductory white paper, “The Green Teleport: The Business Case for Sustainability.” We have surveyed a cross-section of teleport operators to learn how seriously they take the issue and what they are doing about it. We will present the results in a white paper released at our 2010 Member Forum in Washington on March 15, the day before the opening of SATELLITE 2010. Titled “The Green Teleport: Best Practices in Energy Management and Carbon Reduction,” the Forum will present case studies from the experiences of satellite carriers and teleport operators. We expect to come away with a clearer picture of the opportunity as well as how much priority our business is willing to give to the green mandate. (See Upcoming Events at www.worldteleport.org).

Going Green

Today, teleports represent a \$13 Billion sector of the global satellite communications industry. Teleports pay power bills ranging from \$300,000 to over \$1 million per year per teleport while energy prices continue to be unpredictable and spiral upward. The current electrical distribution grid is overtaxed, making more frequent brownouts and blackouts likely; increasing per-kilowatt-hour costs appear inevitable. A recent benchmarking survey of three teleports in the U.S. revealed that it’s possible to save 20 – 40% in a facility’s power bills, according to the World Teleport Association.



More information on the Green Teleport Resources can be found at www.worldteleport.org

Our survey results show that it is still early days in the effort to go green, but there are encouraging signs. The first step in the process is an energy audit to learn where the facility can improve. Only a quarter of respondents have already conducted an audit but almost 40% are either conducting one now or plan to do so. The first target of opportunity is the installation of automated building controls for lights, temperature control and ventilation, followed by more energy-efficient lighting. Operators are also asking their employee to pitch in by turning off equipment when not in use, training them in energy-efficiency best practices and using more teleconferencing as a substitute for

travel. The most encouraging news is that companies are not just paying lip service to the issue. Seventy-nine percent of respondents said they believed that climate change is a major problem. The CEO is involved in the company’s green initiative at over 75% of responding companies and the CEO and COO are the ones with primary responsibility for success.

The March 15 Member Forum is open to WTA members only. There is no charge for attendance. The results of the Green Teleport survey will be made public in a report following the Forum.



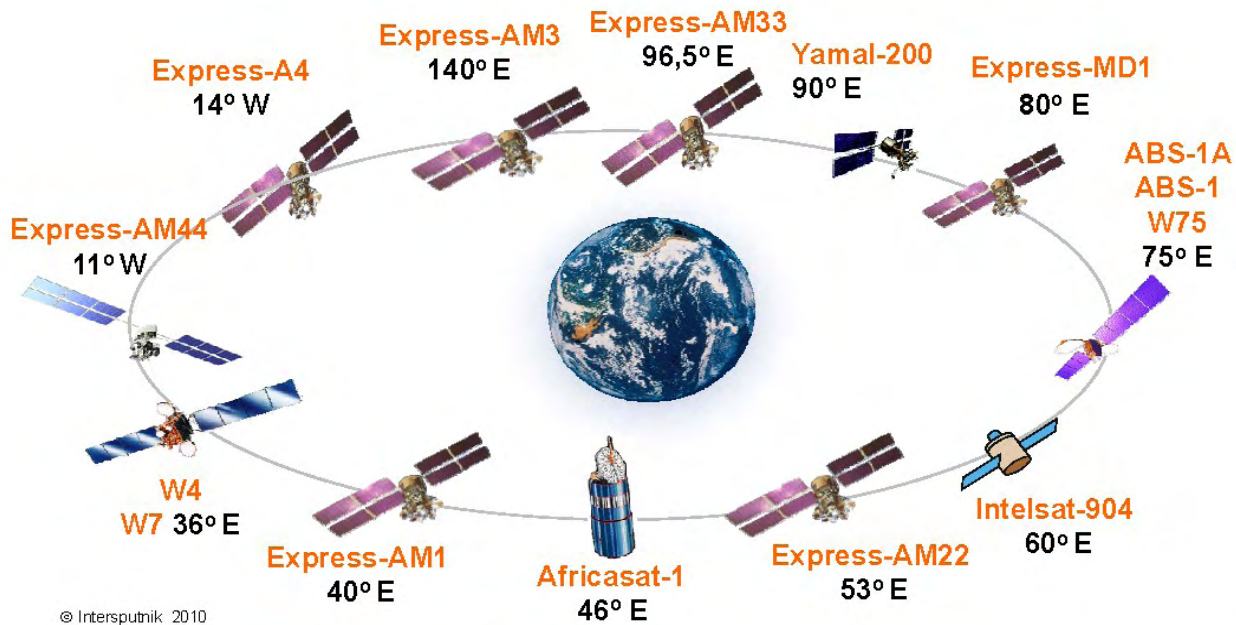
Robert Bell is the Executive Director of the **World Teleport Association**, which represents the world’s most innovative teleport operators, carriers and technology providers in 20 nations. He can be reached at rbell@worldteleport.org



The **Intersputnik International Organization of Space Communications** was established on November 15, 1971. Today, **Intersputnik** has 25 member states in practically all parts of the world from Latin America to Southeast Asia and from Europe to the south of the Arabian peninsula.

Intersputnik's core business is to make satellite capacity available to telecommunications operators, broadcasters and corporate customers under agreements with partner operators and to offer full-scale services via its subsidiary **Intersputnik Holding, Ltd.** for the purpose of installing and operating satellite telecommunications networks. Such full-scale services include access to internet backbones, uplink services, switching and digital platform services as well as supply and integration of ground

Intersputnik Satellite Fleet Overview



equipment. The Russian satellite telecommunications operator **Isatel LLC**, which is part of the Intersputnik Holding, Ltd. group, offers Russian and international telecommunications operators and corporate customers the required technological platform for the establishment of satellite telecommunications networks and provision of telecommunications services based of this platform.

Today, Intersputnik provides to its customers the resource of telecommunications satellites located in the geostationary orbit from 14W to 140E. One of our key partners is the **Russian Satellite Communications Company**, which owns a fleet of advanced Express-series satellites. Also, Intersputnik enjoys the status of the official distributor of Eutelsat's satellite resource and Measat's resource on the AFRICASAT-1 satellite. It markets and sells Intelsat's satellite capacity and offers service on the ABS-1 (LMI-1) satellite.

Intersputnik distinctive feature and main advantage is that it is an all-purpose supplier of satellite capacity and technological solutions. This is why Intersputnik's government and private customers in over 40 countries have a very wide choice of satellite resources in various systems operating on the global market and can receive all kinds of information from a single source.

Intersputnik's principal asset is its long-standing experience while the availability of its own orbit and spectrum resource guarantees its successful development. Using this resource, Intersputnik is implementing projects aimed at procuring and deploying spacecraft in its own orbital positions to provide service in the most rapidly developing regions with growing demand for satellite telecommunications services. For more information go to: www.intersputnik.com

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MarketPlace

- A guide to key products and services at upcoming trade shows. In this issue we feature products and services that will be showcased at the Cabsat/Satellite MENA 2010 exhibition in Dubai from March 2-4.



CET Teleport GmbH is one of the biggest European teleports offering a wide range of media broadcasting and corporate VSAT services. It has extensive disaster recovery facilities, a 24/7 Help Desk and with over 50 antennas on site allows access to over 200 geostationary satellites located from 58°W to 76.5°E.

Recently CET has presented their new DTH platform on EURO BIRD™ 9A satellite located on 9°E. This new video neighborhood is adjacent to the premium HOT BIRD™ position at 13°East giving virtually the same coverage over Europe, North Africa and the Middle East, but is much more attractively priced.

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Globecomm Systems Inc. provides end-to-end value-added satellite-based communication products, services and solutions by leveraging its core satellite ground segment systems and network capabilities, with its satellite communication services capabilities. The products and services

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Based in Hauppauge, New York, Globecomm Systems also maintains offices in Washington, DC, Maryland, New Jersey, the Netherlands, Hong Kong, Germany, Singapore, the United Arab Emirates and Afghanistan.

For more information go to www.globecommsystems.com

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Borders are non-existent when it comes to GlobeCast's services, thanks to the company's 12 teleports and technical operations centers as well as its 17 offices in Europe, North and Latin America, the Middle East, Asia, Africa and Australia.

For more information go to www.globecast.com

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SES WORLD SKIES is the newly combined SES division that brings together SES AMERICOM, the leading supplier of satellite services in the U.S., with the global satellite services of SES NEW SKIES. SES WORLD SKIES serves broadcasters, cable programmers, telecommunications companies and networks, governments, aeronautical and maritime communications integrators, Internet service providers, and educational institutions with efficient communications and content distribution solutions. An extensive range of broadcasters, Internet Service Providers, network integrators, telecommunications carriers, corporations and governments rely on our satellite fleet to provide high quality video, Internet, data and voice communications services.

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ITU Predicts Strong Mobile Cellular Growth Worldwide

After reaching around 4.6 billion mobile cellular subscriptions by the end of 2009, ITU expects the number of mobile cellular subscriptions globally to reach five billion in 2010, driven by advanced services and handsets in developed countries and increased take-up of mobile health services and mobile banking in the developing world.


"Even during an economic crisis, we have seen no drop in the demand for communications services," said ITU Secretary-General Dr Hamadou Touré, during the Mobile World Congress in Barcelona last week, "and I am confident that we will continue to see a rapid uptake in mobile cellular services in particular in 2010, with many more people using their phones to access the internet."

ITU expects to see the number of mobile broadband subscriptions exceed one billion globally during 2010, having topped 600 million by the end of 2009. With current growth rates, web access by people on the move - via laptops and smart mobile devices - is likely to exceed web access from desktop computers within the next five years.

"Even the simplest, low-end mobile phone can do so much to improve healthcare in the developing world," adds Dr Touré.

"Good examples include sending reminder messages to patient's phones when they have a medical appointment, or need a pre-natal check-up. Or using SMS messages to deliver instructions on when and how to take complex medication such as anti-retrovirals or vaccines. It's such a simple thing to do, and yet it saves millions of dollars - and can help improve and even save the lives of millions of people."

Concerning mobile banking, rapid growth in mobile cellular subscriptions has meant that there are now large numbers of people worldwide, especially in developing countries, who have a mobile phone subscription but no bank account - and increasingly, subscribers are using their phones for banking.

The Market Information and Statistics Division of the Telecommunication Development Bureau (BDT) collects, harmonizes and disseminates more than 100 telecommunication and ICT indicators from over 200 economies worldwide. Data are accessible online through the ICT Eye portal, on CD and in print publications. ITU regularly publishes analytical reports illustrating the latest trends in the sector. It also monitors the development of the digital divide and has developed widely used benchmarking tools, such as the ICT Development Index (IDI). 

Broadband Customers to Form 100% of Internet Connections in the UK by end-2011



Growth in the broadband market in the UK was mainly fuelled by the almost universal availability of broadband services, increasing connection speeds and declining prices. 'Broadband customers should represent 100% of all Internet connection


in the UK by the end of 2011' HOT TELECOM Isabelle Paradis said.

The UK is the third largest European broadband market (after Germany and France), with 18.1 million broadband lines in operation at the end of September 2009. ADSL is the most popular method of connection and is increasing its market share, with 70.7% at the end of 2008, up from 44.9% in 2005. Cable and other access methods have also maintained a strong presence in the market (19.3%).

However, falling prices have started to hit broadband revenues. While the total number of broadband connections increased by 10.7% in 2008, revenue from these services grew by only 3.8%. Estimates show that in 2008, residential and

SME connections generated £3.25 billion in retail revenue for broadband providers - an average 34.7% increase in five years. Despite this growth, operators are under pressure as a result of economies of scale, access to premium content and retail price competition.

The UK is served by 4 major broadband providers, BT, Virgin Media, Carphone Warehouse and Sky. BT remains the market leader in terms of broadband services, with 4.9 million subscribers and 27.0% market share in September 2009 and had succeeded in surpassing the 5.0 million customer mark by the end of 2009. Virgin Media, which was the second largest broadband provider before the merger of Tiscali and Carphone Warehouse, has now slipped into third position. It boasted 4.0 million broadband connections at the end of 3Q 2009, representing 22.2% market share.

Find out more about the UK fixed, mobile and Internet markets in HOT TELECOM's new 47-page UK country profile: <http://www.hottelecom.com/uk-copr.html> 

Asia-Pacific to Drive Global Mobile TV Market

The experts are predicting a boom in the take-up and acceptance of mobile TV, and the Asia-Pacific region is going to lead the way. According to market research firm, RNCOS, the Asia-Pacific region is expected to account for around 67 percent of the global mobile TV subscribers by the end of 2013. That is a remarkable figure and evidence that, once again, the Asian market is driving and popularizing new innovation.

Mobile TV is television service delivered to subscribers via mobile telecommunications networks, such as the mobile phone carriers. It allows viewers to enjoy personalized, interactive TV with content specifically adapted to the mobile medium. The services and viewing experience of mobile TV differs in a number of ways from traditional TV viewing as it offers true mobility to cellular users. In addition to mobility, mobile TV delivers a variety of services, including video-on-demand, traditional/linear and live TV programs.

The RNCOS research report "**Global Mobile TV Forecast to 2013**" found that the number of mobile TV subscribers are projected to grow at a CAGR of over 45 percent between 2009 and 2013 to reach around 450 million by end-2013.


The RNCOS team has carried out in-depth study of the global mobile TV market, including detailed analysis on the key geographical regions of the world like Americas, Europe and Asia-Pacific. After analyzing the present and future mar-

ket trends, the study predicts that Asia-Pacific region will dominate the global mobile TV market. Countries that will feature strongly in the growth of mobile TV market in the APAC region include Japan, South Korea, China, India, Malaysia and Hong Kong.



There are several factors that have helped to lay down the foundations for mobile TV, not just in Asia, but other regions of the world. The digital switchover provides one key reason as it allows TV stations to broadcast in real-time on portable devices. Another factor has been the massive increase in the ownership of portable devices and mobile phones. SingTel announced recently that they had seen their regional mobile customer base grow to 285 million as of December 2009 showing an impressive increase of 25 percent or 52 million compared to December 2008.

Demand for 3G mobile services has also remained very strong with an increased penetration of smartphones. In fact, SingTel's total 3G customer base grew steadily by 65,000 in the final quarter of 2009 to 1.41 million as of December 2009.

Consumers have been attracted by smartphone technology. New players in the market such as Google, that has just introduced the Nexus One, will ensure that competition in the smartphone market remains high. Now people have their phones, they want to use them and with the number of TV stations broadcasting to mobile devices set to grow and with more definite advertising and monetizing plans in place, the stage seems set for mobile TV to take-off in earnest. 


Ultra-HD Video and 3D Video on the Horizon

As High-Definition (HD) video has hit its stride worldwide, the TV and film industry are looking ahead to the next new thing. 3D TV and Ultra-HD (UHD) are on the horizon, according to market research firm, In-Stat (<http://www.in-stat.com>).

3D video is already out of the gate, with growing proliferation of 3D films in theaters. Pay TV operators are in the early stages of deploying 3D TV capability. Early 3D TVs and 3D Blu-ray players will ship in 2010. In-Stat projects worldwide 3D TV shipments will reach 41 million in 2014. 3D Blu-ray



player shipments will track closely with 3D TVs.

UHD will take considerably longer to roll out, but has started to garner interest and discussion among long-term planners in the TV, film and technology industries. In-Stat believes the first UHD broadcasts will start around 2017. UHD TVs will reach about 5% household penetration in some regional markets in the early 2020s. Technology companies and equipment manufacturers will need to have solutions available ahead of time to support the long term opportu- 

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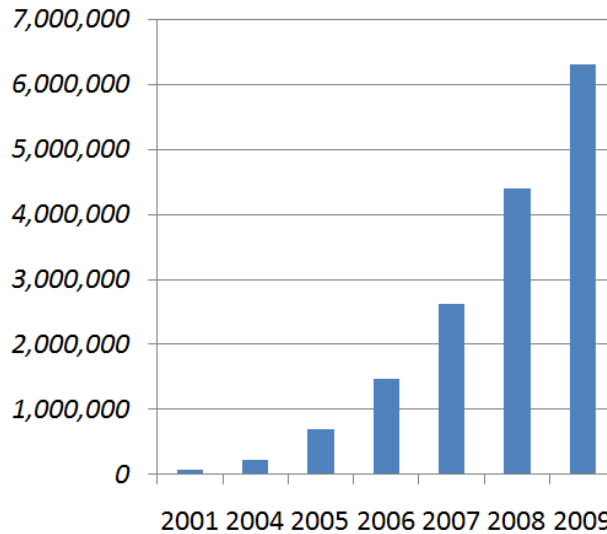
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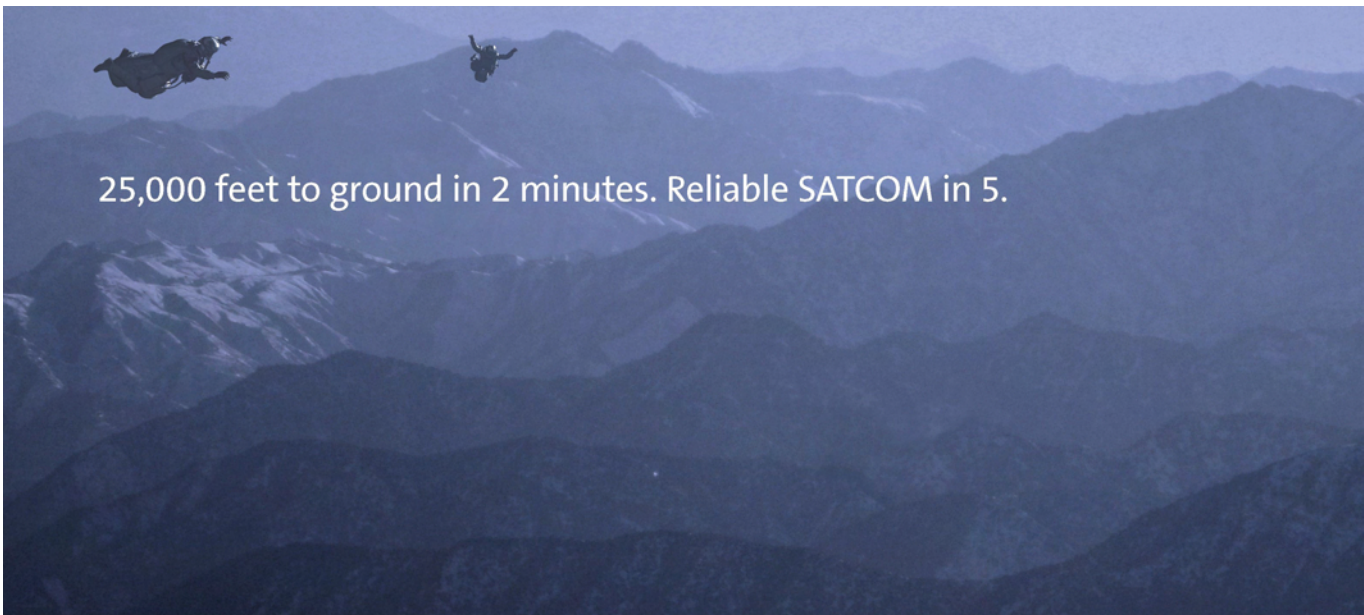
Vital Statistics

Broadband subscribers in the Middle East and North Africa (MENA) markets are growing. Last year, subscribers grew by 44 percent, but penetration rate of the total population remains low overall at only 2.4% of the addressable market.

Broadband Subscribers in Middle East and North Africa



Source: Emirates Business (www.business24-7.ae/)



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The Satellite Markets 25 Index™

Company Name	Symbol	Price (Feb 26)	% Change from 2-Weeks Ago	52-wk Range	% change from 52-wk High
Satellite Operators					
AsiaSat	1135.HK	10.90	-1.27%	7.10 - 12.80	↓ 11.72%
Eutelsat Communications	ETL.PA	24.39	-1.45%	14.90 - 25.85	↓ 5.65%
Hughes Communications Inc.	HUGH	28.17	7.72%	7.77 - 31.52	↓ 10.63%
Inmarsat	ISAT.L	733.00	1.81%	407.00 - 748.50	↓ 2.07%
SES	SES.F	17.78	5.83%	12.76 - 17.78	↓ 0.00%
Satellite and Component Manufacturers					
Boeing	BA	63.16	5.88%	29.05 - 64.47	↓ 2.03%
COM DEV International Ltd.	CDV.TO	3.27	-2.68%	2.52 - 4.15	↓ 6.99%
Lockheed Martin Corp.	LMT	77.76	2.88%	57.41 - 87.06	↓ 10.68%
Loral Space and Communications	LORL	32.53	10.27%	11.03 - 34.93	↓ 6.87%
Orbital Sciences Corp.	ORB	18.45	6.96%	11.60 - 19.13	↓ 3.55%
Ground Equipment Manufacturers					
C-COM Satellite Systems Inc.	CMLV	0.30	5.26%	0.22 - 0.39	↓ 17.95%
Comtech Telecommunications Corp.	CMTL	31.62	0.83%	19.56 - 38.73	↓ 18.36%
CPI International, Inc.	CPII	12.33	-1.60%	5.67 - 14.48	↓ 14.85%
EMS Technologies, Inc.	ELMG	13.72	1.63%	12.00 - 23.17	↓ 40.79%
Viasat	VSAT	30.38	4.58%	15.90 - 32.94	↓ 7.77%
Satellite Service Providers					
Gilat Satellite Networks Ltd.	GILT	5.24	-2.60%	2.75 - 5.80	↓ 9.66%
Globecom Systems Inc.	GCOM	7.63	3.67%	4.29 - 8.57	↓ 10.97%
International Datacasting Corp.	IDC.TO	0.28	-8.20%	0.22 - 0.43	↓ 23.26%
ORBCOMM Inc.	ORBC	2.42	0.83%	1.16 - 3.23	↓ 25.08%
Skyterra Communications	SKYT.OB	4.87	-0.20%	2.00 - 4.94	↓ 44.97%
Consumer Satellite Services					
British Sky Broadcasting Group	BSY	33.31	0.48%	23.56 - 38.54	↓ 13.58%
The DIRECTV Group	DTV	33.85	10.30%	18.81 - 34.42	↓ 1.66%
ECHOSTAR Communications	DISH	19.97	8.65%	8.79 - 22.18	↓ 9.96%
Globalstar, Inc.	GSAT	0.99	1.02%	0.24 - 2.00	↓ 50.50%
Sirius XM Radio Inc.	SIRI	1.02	14.39%	0.12 - 1.18	↓ 13.56%

The Satellite Markets 25 Index™ is a composite of 25 publicly-traded satellite companies worldwide with five companies representing each major market segment of the industry: satellite operators; satellite and component manufacturers; ground equipment manufacturers; satellite service providers and consumer satellite services. The base data for the Satellite Market Index is January 2, 2008--the first day of operation for Satellite Market and Research. The Index equals 1,000. The Satellite Market Index™ provides an investment benchmark to gauge the overall health of the satellite industry.

	Index Value (February 26)	Percentage Change 2 Weeks Ago
Satellite Markets 25 Index™	1063.72	↑ 2.27
S & P 500	1104.49	↑ 2.35

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