Vol. 3 No. 14 September 1-15, 2010



Industry Trends, News Analysis, Market Intelligence and Opportunities

Pay TV Piracy: A Global Challenge

by Peter Galace

were pegged at almost US\$2 billion. Operators warn that the tent on the Internet. plague, if left unchecked, could destroy the whole industry-not just in Asia but the entire global Pay-TV market. So how Asia is But other types of piracy include under-declaration of subscribers grappling with this persistent problem could be instructive for the by operators in an attempt to lower licensing fees from channel

rest of the world as new markets are opening up in places such as the Middle East, Africa and Latin America.

In Asia, Pay TV piracy affects rich and poor countries alike -- Australia, New Zealand, Taiwan, Hong Kong, China, Vietnam, Thailand, Philippines -- and in fact, there seems

to be no country immune to it. There have been many solutions law enforcement. CASBAA says governments and industry tolenges and with Internet online services, the problem is made ments and actions against piracy. even worse. And so the cat and mouse game continues to rage. The latest solution being dangled: a new international treaty.

The problem of pay-TV content piracy across the Asia Pacific. said Cable & Satellite Broadcasting Association of Asia (CASBAA) executive director Anjan Mitra, is currently the most significant barrier to investment and innovation in the pay-TV industry. During a forum held in July this year in India, Mitra presented case studies in the Philippines, Australia, China and Vietnam where he claimed the pay-TV industry is discouraged to produce premium content for consumers or are reluctant to release premium content because of fear the content will be distributed illegally.

CASBAA, which represents more than 130 channel programmers, pay-TV operators and technology providers, describes pay TV piracy as any of the following: unauthorized redistribution of broadcast content by other broadcast organizations, unauthorized \

reception and distribution of entire multi-channel bouquets, by cable operators, unauthorized commercial use of satellite broadt's a serious problem bedevilling the industry far too long casts, facilitated penetration of pay-TV systems to allow unaunow. Last year, in Asia alone, the estimated revenue losses thorized access, and unauthorized distribution of broadcast con-

operators, and ad masking, the practice of operators selling local advertising space over advertising already sold by the channel operator.

CASBAA believes Internet piracy can be kept under control if governments and the industry work together as strategic partners with governments putting in place effective criminal laws and

introduced to clamp it down like digitization, law enforcement, gether can support by providing consistent messaging: visible etc. But the solutions continue to face many obstacles and chal- endorsement of IP rights, with clear and sustained public state-

(Continued on page 4)

CONTENTS

	_
From the Editor	3
Technology Brief: How to Get More Out of IP-based	
	_
Satellite Bandwidth by Marc Goodman	8
Opinion: Tackling the Problem of Satellite Interference	
by Martin Coleman	11
Market Trends	12
Calendar of Events	14
Products and Services Market Place	16
Executive Views: A Conversation on Creativity and	
Leadership in the Satellite Industry	21
Featured Event: GVF Maritime Satcom Forum	25
Vital Statistics.	27
Stock Monitor	28
Company Profile: Arabsat	30
(==	7

Mission accomplished!

Arabsat-5A launches a new era of 100% African coverage-and beyond

Youngest fleet. Highest reliability. Maximum flexibility.

With the successful launch of Arabsat-5A at 30.5° East, the Arabsat world now reaches farther than ever adding unprecedented 100% African coverage to our expanding footprint across the Middle East, Central Asia and Europe. This means even more choices, more flexibility, and more capacity for communications, broadcast, telephone, broadband, VSAT and interactive services. Join the region's largest community in the sky. Tune in to the future, today. www.arabsat.com



Mission accomplished!

Arabsat-5A launches a new era of 100% African coverage-and beyond



Youngest fleet. Highest reliability. Maximum flexibility.

With the successful launch of Arabsat-5A at 30.5° East, the Arabsat world now reaches farther than ever, adding unprecedented 100% African coverage to our expanding footprint across the Middle East, Central Asia and Europe. This means even more choices, more flexibility, and more capacity for communications, broadcast, telephone, broadband, VSAT and interactive services. Join the region's largest community in the sky. Tune in to the future, today.



Piracy Must be Nipped in the Bud to Ensure Sustained Growth

n this issue we address the problem of Pay TV piracy or "revenue leakage" as they call it in Asia. The problem cost the industry almost US\$ 2 Billion last year in lost revenues in Asia alone, the largest Pay-TV market with almost half the subscribers globally. Our Editor for Asia-Pacific, Peter Galace examines the problem in depth and the efforts to curtail it by the industry. How Asia tackles the problem could be instructive to

the rest of the world as Pay TV services begin to take root in emerging markets in the Middle East, Africa and Latin America.

Currently, Pay TV subscribers in the Middle East and Africa consist only one percent respectively of the world's total. Latin America accounts for only five percent. This number is certain to grow as satellite operators expand in these markets and develop Direct-to-Home satellite services and extend cable distribution in these regions. However, conditions similar to Asia may also encourage piracy on a scale that will stunt the growth of Pay TV services in these markets. This is where the Asian experience can be instructive.

Content piracy is not a unique problem to Asia. It exists in every part of the world including the mature markets of Europe and North America. There are many lessons to be learned from how Asian countries are tackling this pernicious problem. How some individual Asian countries overhaul their antiquated regulatory regimes to keep up with 21st century technology would be interesting to watch. It does help to have industry associations such as CASBAA, GVF and APSCC among others, aggressively pushing the regulatory agenda.

Technology plays an important role in the battle against piracy. Upgrading security systems regularly has certainly proven to be very effective in curbing content piracy in North America and Europe and in some parts of Asia as well. Technology alone, however, is not enough. Piracy has been growing in Asia mainly because the perpetrators have been keeping one step ahead of technology. Technical innovation can only be effective if combined with a rational regulatory framework and effective enforcement.

This month the focus will be at the IBC show in Amsterdam which will show-case the latest developments in conditional access and digital asset management technologies, among others. If you are attending IBC this year, check out our guide to the show on pages 14-16 and do drop by the Satellite Markets and Research booth in the publications area between Hall 8 and 9, stand no. 51. We look forward to seeing you there.

Vingil Labor

Errata: In an early version of the July-August issue of the *Satellite Executive Briefing*, a caption to an image of the Viasat-1 satellite was wrongly attributed to another manufacturer. Viasat-1 is being built by Space Systems Loral. The article also mentioned that the Viasat-1 uses Ground-Based Beam Forming. It does not. To view an updated version of the article click here: http://www.satellitemarkets.com/pdf/aug10.pdf



EDITORIAL

Virgil Labrador Editor-in-Chief

virgil@satellitemarkets.com

Peter I. Galace Editor, Asia-Pacific peter@satellitemarkets.com

Howard Greenfield Contributing Editor, Europe, Middle East and Africa howard@satellitemarkets.com

Contributing Editors:

North America: Robert Bell, Bruce Elbert, Dan Freyer, Elisabeth Tweedie, Lou Zacharilla

Latin America: B. H. Schneiderman

Europe: Martin Jarrold, Roxana Dunnette

Asia-Pacific:Tom van der Heyden, Chris Frith

ADVERTISING

Michelle Elbert
Director of Marketing

michelle@satellitemarkets.com

Satellite Executive Briefing is published biweekly by Synthesis Publications LLC and is available for free at www.satellitemarkets.com

SYNTHESIS PUBLICATIONS LLC

P.O.Box 4174, West Covina CA 91791 USA Phone: +1-626-931-6395 Fax +1-425-969-2654

E-mail: info@satellitemarkets.com

©2010. No part of this publication may be reprinted or reproduced without prior written consent from the publisher.

...Pay-TV Piracy... from page 1

based CASBAA is supporting a power-sion signals, being intangible, cannot be tal form and on a very timely manner. ful World Intellectual Property Organi- the subject of theft! Until more specific Some companies have launched numerzation (WIPO) treaty, which it believes laws that seek to curb cable or satellite ous court actions against websites hostcan equip broadcasters with the needed signal piracy pending in Philippine ing their pirated programs but courts in tools they need to fight pay-TV piracy. Congress are passed, channel providers China assess only small fines. Worse, WIPO is a United Nations agency have to invoke the Intellectual Property legal costs for each action are even tasked to encourage creative activity (IP) Code, which gives them protection higher than the damages recovered so and promote the protection of intellec- as copyright owners. Thus, broadcasting there is no deterrent effect on the illegal tual property throughout the world by organizations are filing cases for in- behavior, said Mitra. eliciting state cooperation.

Lack of laws hamper fight vs. piracv

broadcasters' contents. CASBAA admits regulations have not kept up. That is why the group's work now includes educating and persuading individuals, operators and regulators in 15 different Asian governments that today's digital entertainment industry is different from the TV industry that they have known and worked with for many years.

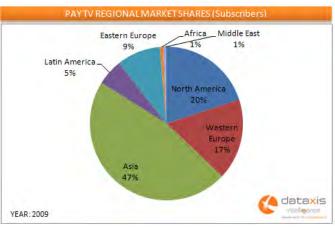
who oversees cer group's anti-piracy governments' regulatory

laws that were passed in a previous generation," he said in a recent forum.

their operations. The country's old laws their signals. have yet to define and penalize the act from the place they are found, are sub- tinely pirated and uploaded immediately the rest of the world combined.

fringement under the IP Code, although the protection leaves much to be de- Unfortunately, these situations are not sired.

countries today is difficult mainly be- tigators found a shop in West Australia until national laws are first amended or cause of deficient national laws that actively promoting ways to penetrate stricter laws banning and penalizing pay make it illegal to use or downlink other Foxtel's satellite TV system. When this -TV piracy are passed, going after the



John Medeiros, CASBAA Asia accounts for nearly half of all Pay TV subscribers deputy chief executive offi- worldwide. How Asia handles the piracy problem will the have an impact on the future growth of Pay TV in and emerging markets in the Middle East, Africa and Latin regulatory activities, says America. (Source: Dataxis)

for some of the governments in the re- carried no criminal penalties, although region. gion, regulators are still dealing with the Australian law had, since then, been updated and improved. Foxtel, the Aus- According to a CASBAA report pubtralian pay TV operator, was able to sue lished late last year, there are an estionly because Australian copyright law mated 326 million pay-TV homes in the In the Philippines, for example, broad- gave specific rights to broadcaster to Asia-Pacific region in 2009. This is a casters have few laws that could protect protect their encryption devices and growth of 26 million homes, or 8.66

of stealing satellite signal piracy, hence The problem is worse in China where accounting for over 115 million homes. the difficulty of prosecuting offenders, digital broadcasting signals from Hong Under existing Philippine laws, only Kong can easily be received in South CASBAA estimates, backed by global movable properties that have physical China. For example, Hong Kong TVB data, that subscription television in Asia or material existence, and can be carried Pay Vision's popular series are rou- Pacific now reaches more homes than

This is the reason why the Hong-Kong ject of the crime of theft. Thus televi- on Chinese web servers in perfect digi-

unique in the Philippines, Australia and China and are also prevalent in other But fighting piracy in many Asian In Australia, according to Mitra, inves- Asian countries in varying degrees. So

> bandits will remain very difficult. And will remain very difficult indeed, considering the enormously long time it usually takes legislative bodies to pass a law.

The problem is manageable

One of the most important new tools being employed to curb pay-TV piracy is digitization and thankfully, the ongoing digitization program in most Asian countries is showing tremendous success. A majority of networks throughout the region are still analog but the digitizationprocess is moving rapidly in several countries, including India and China, which, in the past, have enjoyed the distinction of

paradigm has to shift. "Unfortunately operation was discovered, such acts having the highest piracy rates in the

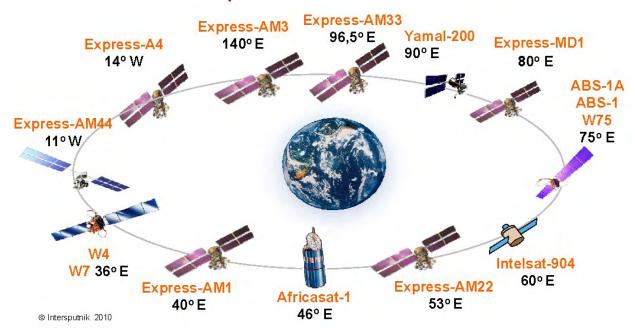
percent growth from 2008 with digital pay-TV subscription households now



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 tele-communications 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 equipment. The Russian satellite telecommunications operator **Isatel LLC**, which is part of the Intersputnik Holding, Ltd.

Intersputnik Satellite Fleet Overview



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 on 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

(Advertisement)

Cover Story

tipping point when it comes to digitiza- pushing for the approval of the WIPO works. tion.

centages of digital deployment.

Japan, Singapore and New Zealand, treaty simply and innocuously applies companies and consumers," Public which are all almost 100 percent digital, to technologies that weren't included in Knowledge asserts in its website. piracy levels are at the lowest. This is 1961, like cable rebroadcasting, satellite according to the results of a CASBAA rebroadcasting, and Internet rebroad- Public Knowledge said signal theft survey in 2008 done in collaboration casting. with the Creative Industries Division of to piracy in 2008.

Broadcasters treaty

Medeiros says Asia has reached the program, CASBAA still believes in using broadcasts made of their own Broadcasting Treaty that would give

India, which suffers from heavy govern- and is facing legal challenges world- ers' signals. Such a treaty would be ment regulations and a lack of digital wide. In fact, it is being "exposed" as a consistent with U.S. law, unlike the infrastructure, remained the country power grab by broadcasters. Public treaty's current creation of a property with the most revenue leakages linked Knowledge, a Washington, D.C.-based right never before recognized within public interest group working to defend domestic copyright law, the group says. citizens' rights in the emerging digital The Electronic Frontier Foundation culture, says the treaty would give (EFF), another consumer rights advobroadcasters the ability to prevent even cate, has even more scathing remarks

broadcasters intellectual property rights "The treaty also does not require coun-Industry analysts are encouraged by the over their signals, in addition to the tries to balance the rights of broadcastreport because the Asian pay-TV mar- copyrights held by the creators of the ers with the rights of users in the same kets with the lowest level of piracy are works. Although the treaty is still in the way that copyright laws do (through generally those with the highest per- discussion stage, its framers are billing doctrines like fair use). As such, the it as an update of the Rome Convention, treaty will have a number of negative a 1961 treaty designed to protect broad-consequences for copyright holders, In Australia, Hong Kong, Malaysia, casters from piracy. Proponents say the Internet service providers, technology

could be addressed simply by signing a treaty that simply prohibits intentional Standard Chartered Bank. In contrast, But the treaty is in for a rough sailing misappropriation and theft of broadcast-Despite the successes in the digitization copyright holders from accessing and about the proposed treaty calling it "a

AAB

www.aaesys.com

TELEPORT AND COLOCATION SERVICES



Teleport is within AOR and IOR satellites covering Asia, Europe, Africa, Middle East, and East Coast of the US...

High speed fiber connectivity for TV. Broadband, Internet, Voice, Video...

Colocation and Data Hosting Services... protection racket for middlemen in the Asia Pay-TV subscription soars TV and Internet worlds."

redistribute it-and sue anyone who does. And TV companies could use their new rights to go after TiVo or MythTV for daring to let you skip advertisements record programs in DRM-free formats."

Despite the piracy issues, the consump- ing, reaching 7 million pay-TV homes EFF said the WIPO treaty would give tion of pay-TV and broadband is strong in 2009 while personal video recorders broadcasters 50 years of copyright-like in Asia in 2009, even though it was a (PVRs) were installed in 2.4 million control over the content of their broad-recessionary year for most segments of pay-TV homes. casts, even when they have no copy- Asia media. According to Media Partright in what they show. It warns that ners Asia (MPA), the pay-TV sector Another forecast by Informa Telecoms "A TV channel broadcasting your Crea- added 26.6 million new subscribers in and Media said the Asia Pacific region tive Commons-licensed movie could 2009. Total pay-TV subscribers reached will have 784 million TV households by

legally demand that no one record or 340 million, up 9 percent year-on-year 2015 and Pay TV will increase to more

Satellite TV dot the landscape in Asia s evidenced here in apartment complexes in Dubai, but piracy threatens continued growth and innovation in the industry.

port of an expanded version of the sales increased by 8.6 percent to US\$32 will have more than 400 million subtreaty to cover the Net, warning that billion, a sharp deceleration from 15 scribers by 2015, which the company anyone who feeds any combination of percent growth in 2008 with 10 percent said would generate over \$40 billion. server would have a right to meddle modest 3 percent advertising increase Despite all the solutions being imposed, with what you do with the webcast sim- amidst the economic downturn. ply because they serve as the middlecommunication medium."

signal piracy, the draft broadcasters treaty goes well beyond that and creates rights to control "fixations" of broadcasts that only apply after you've received and recorded a signal.

EEF condemned some countries' sup- of TV homes. In 2009, pay-TV industry ble. According to the report, Pay TV "sound and images" through a web subscription revenue growth offset by a

man between you and the creator. "If MPA's report said the market for digital Knowing the sophistication of pirates, it the material is already under copyright, pay-TV reached a critical mass in 2009 is only a matter of time when they can you would be forced to clear rights with as technology costs fell with scale find ways to beat digitization and other multiple sets of rights holders. Not only driven deployments. Total digital pay- systems being put in place by pay-TV would this hurt innovation and threaten TV subscribers reached 116 million, 16 companies. Paraphrashing Uncle Recitizens' access to information, it would percent of total TV homes and 34 per- mus: "Pay-TV piracy can't run away change the nature of the Internet as a cent of total pay-TV homes. The pace from trouble. There ain't no place that of digital growth was driven by the ca- far." Thus, the industry might just have ble operators in China and Japan; DTH to embrace the problem and as much as Although EFF says it is clearly against satellite pay-TV in India and Southeast possible try to limit its effect on it.

Asia; and IPTV in North Asia. High definition television (HDTV) is grow-

than 400 million subscribers by that time. The analyst company said the 2015 figure would be an increase of more than 94 million compared to 2009. It said that TV households will have an average 1.4 TV sets per home, leading to over 1.1 billion sets across the region by 2015.

Of the 784 million total, the company said 43 percent of

and representing 46 percent penetration these would be subscribed to ca-

for sure the pay-TV piracy issue will continue to rage in the coming years.



Peter I. Galace is editor for Asia Pacific of Satellite Markets and Research. He writes extensively on telecommunications and satellite developments in Asia for numerous publications and research firms. He can be reached at: peter@satellitemarkets.com

How to Get the Most Out of IP-based Satellite Bandwidth

by Marc Goodman

etwork and application infrastructure continues to get more complicated with new technology advancements, with the everincreasing deployment of generalpurpose Web applications and new advanced Web applications. Adding to the complexity are enterprise initiatives to centralize IT resources, while the decentralization of employees in remote offices, telecommuters and mobile workers continues to increase. And just

TCP and web application protocol inefficiencies and traffic volumes only compound the problems.

Fortunately, WAN optimization solu- the performance of applications that are tions are addressing these problems, by alleviating the adverse effects that satel- fices, to remote individuals with comlite WANs can have on application per- puters, laptops and mobile devices. A formance. These solutions are referred wide variety of acceleration technoloto as WAN Optimization Controllers gies are used within branch office opti-(WOCs), branch office optimization mization solutions. appliances and Application Delivery Controllers (ADCs).

latency. For IP-based satellite links, symmetric (bi-directional or two-sided), because they usually have an appliance in both the head-end and at each remote site, or on mobile user devices. Branch office optimization solutions improve sent from the head-end to remote of-

The second solution is called an Appli-

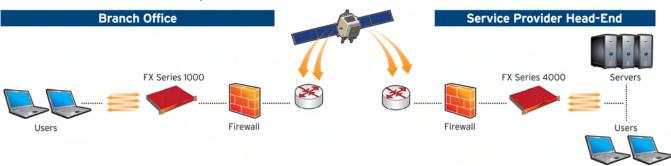


Figure 1. This diagram shows a WOC at the head-end, and a WOC Branch Office appliance at the remote site providing two-sided WAN optimization and application acceleration.

when you think you have it figured out. something new is certain to come along.

For virtually all IT organizations, there are business imperatives to ensure economical utilization of Internet connectivity and overall IT infrastructure. When remote offices and mobile users are located in places where terrestrial network links such as cable, DSL and T1 links are either too expensive, or have limited or no availability, organizations look to satellite Internet broadband communications. However, satellite connectivity has inherent problems due to bandwidth constraints and high-

cation acceleration

address these problems. The first are solution, requiring an appliance only in head-end, that work together with acceleration appliances located at each remote site. These products provide two- up processing power on web and applisided WAN optimization and acceleration to alleviate the adverse effects that as SSL termination, caching and comthe WAN has upon application performance. They are referred to as WAN branch office optimization appliances. and offload server resources. These solutions are considered to be

cation Delivery Controller (ADC). Enter WAN optimization and appli- These devices accelerate application delivery and reduce the amount of nonessential traffic sent over the WAN. There are two types of solutions that ADCs are a single-sided (asymmetric) acceleration appliances that reside at the head-end. The devices work as front -end processors to offload tasks from Web and application servers. ADCs free cation servers by performing tasks such pressing data. They also have server load balancing capabilities to efficiently Optimization Controllers (WOCs), and manage traffic among multiple servers,

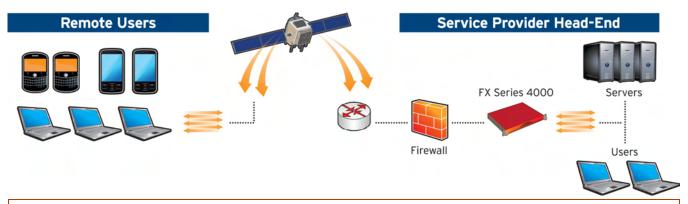


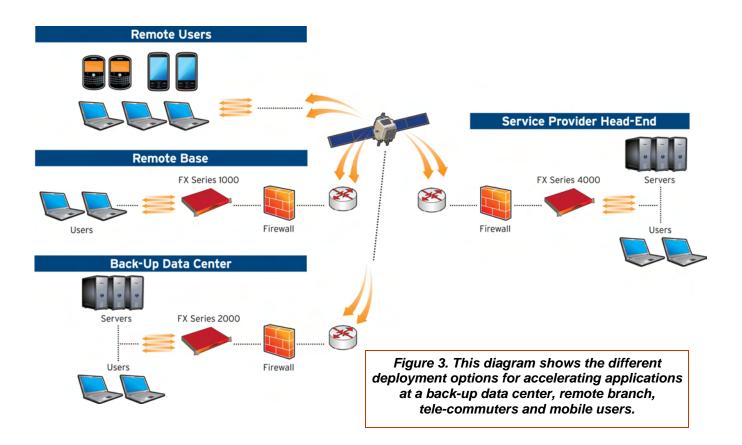
Figure 2. This diagram shows a single WAN optimization appliance at the head-end providing singlesided acceleration to remote users.

With a single-sided solution, the ADC puters and devices, or by automatically serves as a proxy for TCP management, injecting the appropriate acceleration Some of the key benefits: acceleration and offloading server re- technologies into the remote user comsources for out-bound traffic. TCP ac- puters and mobile devices - without • celeration removes the time, quantity installing software on the user devices. and complexity associated with multiple short-lived connections that slow net- WAN optimization and application acwork performance and add overhead to celeration techniques improve WAN web server CPU resources. The ADC performance - the ability to both fill the terminates the client-side TCP session satellite link, and optimize traffic . requests, and multiplexes many short- throughput. lived sessions into a single longer-lived session between the ADC and the Web servers. ADCs also offload Web servers using various data compression techniques, and utilize caching to maintain copies of routinely accessed data to eliminate unnecessary requests to the Web servers. Some ADCs can also terminate SSL sessions from clients, removing the compute-intensive task of encryption from the web servers - freeing up valuable processing resources.

The more advanced WAN optimization vendors offer a variety of head-end and remote site deployment options that don't require hardware at remote sites. Figure 3 (next page) shows three deployment options using both hardware and remote software clients. An acceleration appliance is deployed at the head-end. The remote sites have either a remote acceleration appliance, or client software deployed on user devices. This can be accomplished by installing acceleration software on remote com-

- Reduce the amount of non-essential data sent over the satellite WAN
- Reduce the number of TCP and application turns (handshakes) required to complete a transaction
- Offload computationally intensive tasks from clients and servers

Problem	How WAN optimization solves it			
Inadequate bandwidth	Data reduction			
	Cache differencing			
	Caching			
	Pre-caching			
	Byte-level caching			
Illast Informaci	Static and bi-directional compression			
High latency	TCP acceleration			
	Application protocol acceleration			
	Session multiplexing HTTP / HTTPS			
	CIFS			
	FTP			
	SMTP			
	POP3			
	TCP Optimization			
Packet loss	Congestion control			
	Forward Error Correction			
Network contention	QoS – traffic prioritization			
Server utilization	Server offload			
	Server load balancing			
	SSL termination (client-side and server-			
	side)			
	Connection management			
Security	Application firewall			



Summary

cated with new technology advance- using IP-based satellite communica- ance. ments, and enterprise IT departments tions. are supporting a greater number of diverse remote workers, more IP-based Fortunately, WAN optimization solusatellite links are being used to deliver tions are addressing all of these probapplications and information to workers lems. These solutions provide singlescarce and expensive.

Employees in remote offices, telecommuters and mobile workers are becoming a larger part of the workforce. Business imperatives are being handed down to ensure economical utilization of Internet technology, and to provide faster delivery and security for enterprise applications to users no matter where they are, with anytime access. Unfortunately, there are some roadblocks that can make delivering on these business imperatives a challenge.

There are myriad problems caused by As IT infrastructure gets more compli- verse environmental conditions when WAN has on application perform-

located in places where bandwidth is sided and two-sided WAN optimization

high-latency, TCP, web application and acceleration technologies to allevicontent delivery inefficiencies, and ad- ate the adverse effects that the



Marc Goodman has over 30 years marketing experience in the technology industry, with a history of building industry leading brands for emerging companies, managing marketing communications and product marketing. Marc has been working with Stampede Technologies since January 2010, managing the company's overall marketing efforts. For the last twelve years, he has focused on the WAN optimization and application delivery market, working with companies

such as Array Networks, Coyote Point, KEMP Technologies, F5 Networks, Radware and others. He can be reached at: marcgo@comcast.net

Tackling the Problem of Satellite Interference



by Martin Coleman

Of course, better than reduced interference, would be no vocate of automation or simplifying the operation of any transmission system to avoid both equipment and human error. Using proper, well defined automation leads to transmission schedules being met, errors reduced and therefore interference avoided.

The most vulnerable systems are those of the SNG vehicle and Flyaway terminal. It is all too easy for operational errors to occur on a typical SNG vehicle, for example. However, by providing automated step-by-step task management of the one knows who is causing the interference in the first place. operations carried out by the transmission equipment of that If two transmitted carriers attempt to use the same frequency, vehicle, those errors can be drastically reduced, if not eradiwho is right? The problem can be simple or complex. ID cated. Less mistakes leads to efficient operation and a significant reduction in interference. Add to this proper scheduling, then planning of transmission services is simplified and conflicts avoided.

> In addition, with good infrastructure, the broadcast control center should be part of that automated management and include any ground station transmission centers they may have. In other words, integrate your automation.

In addition to ID and automation, there is a real need to integrate more tools within any terminal's functionality. These tools could range from simple task of logging of events and operations, to transmissions times (thus automating billing) groups covering Video, Data and VSAT were created. On and eventual sophistication allowing any terminal to selfmonitor and take appropriate action to avoid such incidents as dual illumination interference (a very common problem) and report this quickly and simply to operations personnel.

Staying in Control

In order for SUIRG to be successful in its bid to minimize satellite interference, broadcasters and satellite users across Effort is currently being directed towards the inclusion of the globe need to be on board with these initiatives. There are many ways in which we can achieve this aim, but it needs to be driven by the industry as a whole.

cost effective ways to integrate ID in such services in this Martin Coleman is Managing Director of Colem and more complex service structure. This has led to looking at Chairman of the SUIRG Video Working Group, he can

s technology moves on, so do the demands on our that had initially been avoided, but folmedia infrastructure. In the world of satellite that is lowing discussion, is now being revias true as everywhere. Satellites are being used for a sited. whole plethora of activity, from broadcasting to powering navigation across the globe. This increased demand has a Being in Control negative effect however on the feed to the satellite in the form of radio frequency interference, meaning, for broadcasters in particular, a less than perfect television viewing interference at all. I have personally always been a great adexperience.

Carrier ID

Using ID on any service is nothing unusual but surprisingly this has not been applied to today's satellite transmissions. The Carrier ID initiative, being led by the Satellite Users Interference Reduction Group (SUIRG), will significantly reduce the time taken to track and correct day-to-day interference. Many of the problems stem from the fact that notries to eliminate the obvious.

Having an ID assigned to each transmission makes sense of course, but fast resolution is a must and making it easy to determine the cause of the problem and speedier resolution, in turn, will lead to less interference and therefore less downtime for the broadcaster or other affected services.

As with any initiative, the challenge has always been getting support and involvement from supply companies involved in the process of satellite transmission and the broadcaster or service provider. SUIRG has put a great deal of effort into fostering these relations where in late 2009, three working the Video front this has been easier to implement as specifications and mandates had been setup some years before. Taking Video transmission as the example, we are now at a point where encoder manufacturers are preparing and in many cases, have achieved the goal of making Carrier ID available on all video encoders for the single transmit chain scenario.

multiplexed transmission streams by using the uplink modulator to embed that same ID. In addition, discussions continue with major broadcasters in all main regions with specific input from the Americas, Asia and Europe looking at the multiplexer itself as another way to embed ID, something be reached at martin.coleman@colem.co.uk

Global Maritime Satcoms Market Passed US\$ 1 Billion

uroconsult forecasts that the number of satellite communications terminals aboard commercial and private "...Real-time monitoring, remote diagnostics, ships will more than double over the next decade as demand for bandwidth on the high seas continues to surge.

In a new report, "Maritime Telecom Solutions by Satellite: Global Market Analysis & Forecasts," Euroconsult provides an in-depth view of the dynamics determining growth in the sea..." maritime sector, along with analysis and forecasts for the maritime satcom market. The report also offers a detailed VSAT services. While VSAT services are not compliant review of the merchant shipping, fishing, passenger ship, leisure vessel and offshore segments. The breakdown between MSS and VSAT is explored through each of these sections.

"Increasing onboard bandwidth requirements are driving the

maritime market in a direction that is beneficial to satellite communications," said Pacôme Revillon, CEO of Euroconsult. "Realtime monitoring, remote diagnostics, maintenance, route planning and electronic port declaration are just a few of the applications generating huge capacity demand at sea," he added.



economic conditions, increasing demand for operational bandwidth aboard ships as well as Internet connectivity reguired by crews and passengers have been driving growth. One VSAT provider cited in the report said customers' monthly data transmission per ship increased from 9.1 gigabytes in April 2009 to 19.7 gigabytes in April 2010.

The global market has been growing rapidly since 2005, with a 14% compound annual growth rate (CAGR) in satellite The report, "Maritime Telecom Solutions by Satellite, capacity revenues; nearly 4% CAGR in the equipment sales; and 8% CAGR for the global tier-1 service providers.

The fastest growth – 24% annually since 2005 -- has been for www.euroconsult-ec.com

maintenance, route planning and electronic port declaration are just a few of the applications generating huge capacity demand at

with safety communications needs, they are the mainstay of crew communications and satisfy the increasingly demanding passenger communications needs aboard cruise ships and luxury yachts. Traditional MSS services that operate in the L -band at lower data rates than VSAT terminals (using the Cand Ku-bands) still allow for smaller and cheaper equipment

> and remain important for safety communications and regulatory obligations.

> MSS accounted for 97% of the maritime terminals in 2009, but only 52% of service revenues. Euroconsult projects that by 2020, the VSAT market will account for the majority of satellite-based

maritime communications revenues generating close to \$1 billion in revenues for service providers in 2020.

The report also suggests that the proliferation of new Kaband based services, which allow much faster upload and download speed than either traditional VSAT or MSS, could tional by 2014/2015.

Despite a drop in global maritime activity due to declining Euroconsult predicts that the maritime satcom market will grow at a healthy rate over the next decade, but not as rapidly as in recent years. Total maritime satcom terminals are expected to grow at a CAGR of about 6% over 2010-2020 while maritime satellite service provider revenues should grow at around 4% annually over the same period, with revenues somewhat impacted by decreasing equipment revenues.

> Global Market Analysis & Forecasts" provides an in-depth view of the sector dynamics, analysis and forecasts for the maritime satcom market. For more information go to:



U.S. Multichannel Market Declines for the First Time

Economic factors such as high unemployment and the weak housing market led to weak performance in second-quarter 2010

new analysis by SNL Kagan reveals that the U.S. tinue to take market share in the video business, growing customers compared to a 378,000 gain in the same period over the past year, the gains have been modest at less than last year.

SNL Kagan data shows that full subscriber counts for cable, DBS and telco video dropped to 100.1 million in the second quarter. Cable suffered its worst quarterly video loss to date, plunging by 711,000 subscribers, with six of the eight MSOs reporting their worst quarterly video losses as well. DBS and telco managed to add 81,000 and 414,000 subscribers, respectively.

Cable MSO's share of combined video subscribers dropped to 61%, versus 63.6% in second-quarter 2009. Telcos con-

multichannel market delivered its worst perform- from 4.3% in second-quarter 2009 to 6.0% in second-quarter ance on record in the second quarter, losing 216,000 2010. Although the DBS industry expanded market share 1%.

> "Although it is tempting to point to over-the-top video as a potential culprit, we believe economic factors such as low housing formation and a high unemployment rate contributed to subscriber declines in the second quarter," said SNL Kagan Analyst Mariam Rondeli. "We are also seeing churn resulting from the broadcast digital transition, which boosted video uptake early last year, as many have abandoned their paid subscriptions once initial promotional contracts expired," she added.

THE AMOS-5 SATELLITES NOW IN AFRICA



The AMOS-5 satellites, operational in January 2010 at the 17°E orbital location, provide a full range of satcom services with powerful Pan-African C-band and Ku-band beams.

With AMOS-2 and AMOS-3 serving Europe and the Middle East, and AMOS-4 and AMOS-6 scheduled for launch in 2012, Spacecom offers its vast experience to DTH operators, TV broadcasters, ISPs, VSAT broadband providers and telephony carriers throughout Africa. AMOS-5i and AMOS-5 C-band and Ku-band capacity over Africa is currently available,

contact us to find out more.



E-mail: amos-info@amos-spacecom.com · Website: www.amos-spacecom.com

MSS Market Stretched But Sees Fortunes Turning Around

tion to funding and building the next generation of satellites main a niche market offering. to enable a new era in MSS provisioning, the MSS industry

continues to trudge forward and plan for its next growth phase.

"The MSS industry has weathered a storm in the past 18 to 24 months and held on despite a general investor confidence crisis and the economic recession", stated Claude Rousseau, Senior Analyst for NSR and author of the report. "With government funding and private investors supporting the industry, it has continued to show growth in

traffic while targeting a larger set of customers in the maritime, land-mobile and aeronautical markets," he added.

The industry grew by a few percentage points in 2009 despite some hiccups as subscribers stopped using airtime or even delayed upgrades or purchase of new products, while some operators delayed new equipment purchases. NSR forecasts the global market for mobile satellite services will grow from \$4.2 billion in retail revenue in 2009 to \$10.9 billion in 2019.

The NSR in-service units forecast shows a growth from 1.9 CGC segment, which is taking on a whole new shape, ap- 576-5771. pears to be a bright spot. Its fortune is the spectrum allocated

SR's annual in-depth analysis of the Mobile Satel- to MSS operators who hold it, and whose value to terrestrial lite Services (MSS) market found the industry re- operators, busting at the seams with backhaul traffic and mained generally stable over the past 12 months facing coverage deficiencies, has recently been recognized. amidst turmoil surrounding the global economy. By focusing The issue of finding the right business model, with or withon a core suite of unique applications and customers, in addi- out satellite, will tell if the MSS portion will survive or re-

> One challenge is that expected consolidation in the MSS industry has not happened yet, despite the market not being adverse to it. There are still too many players vying for a piece of a relatively small pie compared to other telecommunications markets, which stretches an already fragmented industry, especially in the legacy maritime sector. The MSS killer application, data services, is unfortunately a low airtime consumption market. However, data is also raising more awareness

of the quality of mobile satellite connectivity and its importance, and acceptance, should grow with increased capabilities and integration with positioning, navigation, safety of life, security and movement, and tracking applications.

Mobile Satellite Services, 6th Edition is a multi-client report now available from NSR. The report provides a complete and comprehensive analysis of demand trends for the MSS market today and over the next 10 years, covering eight regions and forecasts for equipment and services as well as transponder demand in the satellite handheld, maritime, landmobile and aeronautical markets, as well as for MSS-ATC/ million units in 2009 to more than 5.7 million in 2019 at a CGC, for the period 2009-2019. For additional information compound annual growth rate of 11.6% The MSS-ATC/ on this report go to: www.nsr.com or call NSR at +1-617-

Calendar of Events

September 6-9, 2010 World Satellite Business Week 2010, The Westin Paris, Paris, France, Tel: +33-1-49 23 75 30 E-mail: whitfield@euroconsult-ec.com web: www.satellite-business.com

September 9-14, 2010 IBC 2010, RAI Convention Center, Amsterdam, The Netherlands, Tel: +44 (0) 2078324100 web: www.ibc.org

September 28-30, 2010 7th Annual Satellite Interference Conference, San Francisco, Calif., USA, Contact: Bob Ames, President, SUIRG, Tel. +1-941-575-1277 e-mail: bobames@suirg.org web: www.suirg.org/2010_conference.shtml

October 5-7, 2010 APSCC Broadcasting and Space Conference and Exhibition 2010 Tokyo, Japan Tel:+82 31 7836246 E-mail: info@apscc.or.kr web: www.apscc.or.kr

October 13-14, 2010 SATCON 2010 Javits Convention Center, New York City, USA, Tel: +1 (203) 371-6322 E-mail: info@jdevents.com web: www.satconexpo.com













With more than 340 million subscribers, pay-TV in Asia is the greatest show on earth!

Themed "Unlock Your Networks", the 17th CASBAA Convention to be held in Hong Kong, October 25th – 28th, unites platforms and channels, satellite and cable operators, content providers, broadband services providers, telecommunications providers, technology companies and advertising agencies.

Meet your peers, industry leaders and future partners at the must attend event for pay-TV in Asia.

Celebrating more than 20 years of Asian pay-TV growth: **Unlock Your Networks.**

For details, visit www.casbaaconvention.com

Contacts:

Sponsorship Opportunities Jasper Donat jasper@brandedasia.com

Speaking Opportunities Amanda Yang amanda@casbaa.com

Delegate Registration Agnes Chan agnes@casbaa.com

www.casbaa.com

Organised by



Presenting Ball Sponsor



Presenting Golf Sponsor



Sponsors

























































Products and Services Market *Place*

■ A guide to key products and services showcased at the IBC 2010 exhibition in Amsterdam, Netherlands from September 10-14.

Spacecom is the operator of the AMOS satellites, which provide high-quality broadcast and communication services to Europe, the Middle East, and the Atlantic bridge to the United States. The AMOS by Spacecom satellite constellation, consisting of AMOS-2 and AMOS-3, co-located at the prime orbital position of 4°W, serves Direct-To-Home and other Television platforms in Europe and the Middle East, as well as provides a secure and stable transmission to government agencies. The extensive signal strength and prime location makes the AMOS platform particularly suitable for DBS and DTH operators, as well as a wide range of broadcasters, ISPs, telecommunications operators, and network integrators with Internet, voice, data and digital TV services.

The AMOS-5i satellite, is the latest addition to the AMOS fleet. With a position at 17°E, a new orbital position, Spacecom's coverage is expanding to Africa. AMOS-5i provides powerful C-band and Ku-band coverage over Africa and is serving as an interim satellite until the AMOS-5 satellite's scheduled launch in mid-2011. Once operational, the AMOS-5 satellite will replace the AMOS-5i in its orbital position, expanding both coverage areas and capacity, to deliver highpower C-band and Ku-band capacity to the entire African continent. AMOS-5 and AMOS-5i complement Spacecom's existing satellite fleet consisting of AMOS-2 and AMOS-3, and together with AMOS-4, slated for launch in 2012 to serve Asia, will establish Spacecom as a true global satellite operator.

www.amos-spacecom.com

at IBC 2010 Visit Amos Spacecom in Hall 1 Stand # 1.C36

AvL Technologies delivers superior mobile satellite communication antenna systems and position-TECHNOLOGIES ers. AvL's visionary approach to mobile satellite antennas and positioners has established the comfor ultimate performance pany as a global leader in innovation and reliability. The product line features a full range of lightweight, rapidly deployable, self-contained antenna and positioner systems. AvL antenna systems enable efficient and cost-effective voice, video, and data connectivity to be established quickly without the need for specialized training

AvL is also one of the largest producers of high-performance, Ka-band ready, solid carbon-fiber CF antennas. AvL's growing CF product line includes 1m, 1.2m, 1.6m, 2.0m and 2.4m apertures. Each of these apertures can be configured for case-based or vehicle-mount systems for diverse applications. at IBC 2010

www.avltech.com

Visit AvL in Hall 5 at Stand # 5.A49



Founded in 1976 by the 21 member-states of the Arab League, Arabsat has been serving the growing needs of the Arab world for over 30 years. Now ranked as the world's 10th largest satellite operator & by far the leading satellite services provider in the ME & Africa, it reaches millions of homes in over 100 countries across the ME, Africa & Europe; including more than 164 million people within the 21 Arab countries.

Operating a growing fleet of owned satellites at the 26° East and 30.5° East positions of the geostationary orbit, Arabsat is the only satellite operator in the MENA region offering the full spectrum of Broadcast, Telecommunications and Broadband services. This capacity will continue to expand with the launch of new satellites from 2010 to 2012, making the Arabsat satellite fleet the youngest in the region with the highest possible reliability coupled to ultimate flexibility. This

translates to a now unrivalled in-orbit backup, as well as more space capacity than any other player in the region for more TV and radio broadcasting services, professional data network solutions, telephony and IP trunking backbone connectivity, and broadband Internet access for media and entertainment companies, corporate customers and government entities. at IBC 2010

Visit Arabsat in Hall 1 at Stand # 1.B27

www.arabsat.com



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 EUROBIRD™ 9A satellite located on 9°E. This new video neighborhood is adjacent to the premium HOT

BIRDTM position at 13°East giving virtually the same coverage over Europe, North Africa and the Middle East, but is much more attractively priced.

CET also offers competitive pricing for services within the T11N (37.5°W) satellite footprint. The iDirect Evolution® platform delivers significant gains in bandwidth efficiency and data throughput and uses the integrated features of iDirect's Intelligent PlatformTM to support enterprise and governat IBC 2010 ment applications.

www.cetteleport.com

Visit CET Teleport in Hall 3 at Stand # 3.C51



Gazprom Space Systems (formerly Gascom) -is a private commercial, nongovernmental satellite operator based in Russia. The main shareholder is Gazprom, one of the largest energy companies in the world. Gazprom Space Systems' orbital fleet consists of three mid-size satellites under the Yamal brand.Gazprom Space Sys-PACE SYSTEMS tems' ground infrastructure consists of four teleports in the city of Moscow and in the surrounding Moscow region, which are connected to the main telecom backbones by

means of fiber-optic lines. The company also has a wide network of earth stations across Russia. In Russia Gazprom Space Systems is not only a satellite operator but also a service provider and system integrator. Within Russia, along with satellite capacity, it provides satellite services including satellite links, video distribution, Internet access and network development and management.

Gazprom Space Systems has more than 200 clients in Russia and abroad. One fourth of Gazprom Space Systems' revenues come from the international markets. By 2015 the company intends to increase its satellite capacity by 400 percent from current levels and to build a new teleport in the Moscow region. Currently, the new Yamal-300K and Yamal -401&402 satellites are under construction.

www.gazprom-spacesystems.ru

at IBC 2010 Visit Gazprom in Hall 4 at Stand # 4.C51



Globecomm Systems Inc. provides end-to-end value-added satellitebased -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 Globecomm offers include pre-engineered systems, systems design and integration services, managed network services and life cycle support services. Globecomm's customers include communications service providers, commercial enterprises, broadcast and other media and content providers and government and government-related entities.

We are the only company in the industry that can, under one roof, design, install, integrate, support, manage and operate your systems and networks. Or we can provide turnkey services that offer the same features and functions as a customer-owned facility.

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.

www.globecommsvstems.com

at IBC 2010 Visit Globecomm in Hall 1 at Stand # 1.B11



Products and Services Market *Place*

SatService Gesellschaft für Kommunikationssysteme mbH, founded in 1996, is a prielischaft für Kommunikationss ysteme mbH vately owned, independent company. The company is located in the Lake Constance region of Germany. Customers all over the world have chosen SatService as a dependable source of cost-efficient, reliable and customer-oriented satellite ground station solutions.

SatService is an ideal source for customized Satellite Ground Stations, Satellite News Gathering, Monitoring and Control Software. SatService is in a position to provide customer competitive and customer dedicated solutions with the quick reaction time of a small but responsive company.

Additionally SatService develops the sat-nms product family. Detailed information about the sat-nms equipment and software solutions for satellite ground stations like Beacon Receiver, Antenna Control Unit, and Monitoring & Control Systems are located on the website www.satnms.com

www.satservicegmbh.de

at IBC 2010 Visit SatService in Hall 1 at Stand # 1.F47



W.B. Walton Enterprises (Also known as Walton De-ice) designs and manufactures the broadest line of equipment available for preventing the accumulation of snow and/or ice on satellite earth station antennas. The original Walton De-ice product includes a behind the antenna main reflector plenum (enclosure) which is heated with hot air. These systems are for antennas ranging in size form 5-meters to 32-meters in diameter. Walton De-ice offers several options for heating including, gas heaters with their economical operation advantages or the low maintenance Stainless Steel

Electric Heaters.

With its vast experience and customer-service orientation, W.B. Walton Enterprises is committed to providing products of the best quality backed by superior customer service and support.

www.de-ice.com

at IBC 2010 Visit Walton in Hall 1 at Stand # 1.F49



E S T R E A M Wavestream sets the standard in the design and manufacture of next generation high power solid state amplifiers. Wavestream's family of C-, Ku-, Ka- and X-band Solid State

Power Amplifiers (SSPA) and Block Upconverters (BUC) provide systems integrators with field-proven, high performance, high reliability solutions designed for mission-critical broadcast and defense satellite communications systems worldwide.

What sets Wavestream products apart from traditional amplifier solutions is the company's patented Spatial Power AdvantageTM technology, which provides high output power, greater

efficiency and improved reliability in more compact product packages. Wavestream's newly introduced Power-StreamTM C-band products are designed to replace aging, less efficient tube-based amplifiers used in broadcast, teleport and satellite news gathering systems. PowerStream products are easy to install and maintain, require zero warm up time, and in a redundant configuration, draw less power. For operators, this translates into greater reliability and reduced energy and maintenance costs over the lifecycle of at IBC 2010 the system.

www.wavestream.com

Visit Wavestream in Hall 1 at Stand # 1.A03

SatService Gesellschaft für Kommunikationssysteme mbH Germany, 78256 Steisslingen, Hardstrasse 9





SatService GmbH

your system integrator for satellite ground stations including extensive portfolio of own products "Made in Germany"

1.8 and 2.4m Electrical Motorized Antenna

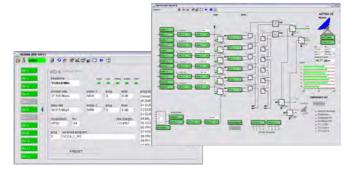
Antenna Control and Step Track System

Ku- and C-Band Power Sensor

L-Band Beacon Receiver







Monitoring & Control System

Network Management System

Carrier Monitoring System

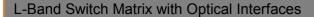


Amsterdam 2010 Booth 1.F47









50-2500MHz Optical Transmitter and Receiver

L-Band Distribution Amplifier



Contact: info@satservicegmbh.de

phone +49 7738 9700 3 fax +49 7738 9700 5 www.satnms.com www.satservicegmbh.de



Gazprom Space Systems (formerly Gascom) – is a private commercial, non-governmental satellite operator based in Russia.

The main shareholder is Gazprom, one of the largest energy companies in the world.



Gazprom Space Systems' orbital fleet consists of three mid-size satellites under the Yamal brand. The Yamal-100 and Yamal-201 satellites are co-located in 90E position. These satellites serve mainly the Russian/CIS market. The Yamal-202 satellite operating in 49E orbital slot has a wide service area covering most of the Eastern Hemisphere and caters to the international satellite market. The Yamal-300K, 401 and 402 satellites are under construction, while the Yamal-601 is in development.

Gazprom Space Systems' ground infrastructure consists of four teleports in the city of Moscow and in the surrounding Moscow region, which are connected to the main telecom backbones by means of fiber-optic lines. The company also has a wide network of earth stations across Russia.

In Russia, Gazprom Space Systems is not only a satellite operator but also a service provider and system integrator. Within Russia, along with satellite capacity, it provides satellite services including satellite links, video distribution, Internet access, network development and management.

Gazprom Space Systems has more than 200 clients in Russia and abroad. One fourth of Gazprom Space Systems' revenues come from the international markets.

By 2015 the company intends to increase its satellite capacity by 400 percent from current levels and to build a new teleport in the Moscow region.

Currently, the new Yamal-300K and Yamal-401 and 402 satellites are under construction.

For more information go to www.gazprom-spacesystems.ru

(Advertisement)

A Conversation on Creativity and Leadership In the Satellite Industry

by Lou Zacharilla

izzy Gillespie is credited with revolutionizing the jazz industry with his invention of "bebop." To the uninitiated, belop is a musical genre best identified by jolting rhythmic shifts created through improvisation. Think of Michael Jordan on a fast break. Improvisation, like most great art or ideas, relies on a structure. Yet like a satellite, it ultimately produces something innovative and wonderful when it breaks free from gravity and ascends into its own orbit.

Innovation leads us to a new frontier each time it ascends. Engineers beware: there was nothing deliberate in Gillespie's creation of bebop, although it made many record producers wealthy and many other jazz club owners famous. It has assumed its place in musical history alongside rock 'n' roll, the blues, gospel music and, my favorite, singing in the shower. Innovation is a product of working with what you are given, but doing it with your imagination on fire.

Dizzy characteristically replied, "Man, if you don't know what it is, you shouldn't mess with it!"

I am not quite sure what he meant by that, but I do know that in the satellite industry many have said the same thing when asked about creativity and innovation. Creativity, it is often Innovation and creativity are like oxygen to the modern thought, is the domain of the jazz musician or the painter.

But things are changing at the speed of bebop. Thanks in part to Apple, or perhaps because the nature of the economy is today so defined by the introduction of shorter product development cycles and services, innovation is taking its the World Summit for Satellite Financing in Paris a few days rightful place in the C-suite. In a new poll taken by IBM, away, I decided to go back and forth with three who will be 1500 CEOs surveyed were asked what the number one lead- on the panel I was invited to moderate on the 9th of Septemership competency for the future will be. The majority re- ber at the Westin in Paris. plied that it is "Creativity."

Surprisingly, creativity scores in the United States have been declining since 1990. Europe, collectively a culture that prides itself on great acts of the imagination (and I do not mean the final bill after a stay in a Parisian hotel!), is increasingly aware of the economic mandate to generate ROI in a knowledge economy. Sweden ranked #1 on the planet in "e-readiness" in the 2010 Economist Digital Economy rankings. According to Professor Mel Horwitch, who heads the school of Innovation, Technology and Enterprise (ITE) at "...Leadership ensures that creativity is not something that happens by coincidence. Creativity is a process embedded in our organization through what we call the



'Newtec Innovation Framework'..."

Serge van Herck, CEO, Newtec

the Polytechnic Institute of New York University, notes that Asia cannot get enough scholarship on creativity. "It simply takes your breath away," said Horwitch, who spends a time teaching technology management in China.

When once asked to define beloop, the zany, but truly gifted Bruce Alberts, Editor-in-Chief of Science magazine said that Asian schools and businesses are moving away from rote learning and linear educational processes in order to stimulate innovative thinking, while in America there has been a trend in the opposite direction.

> economy. As writer Thomas Friedman said, "The iPad is manufactured in China, but it was dreamed in America."

> Who's right? And what are satellite industry CEOs encouraging employees and product teams to dream about? With

> I posed this question to Gilat's Executive Vice-President for Business Development and Strategy Joshua Levinberg, Newtec's CEO Serge van Herck and EADS Astrium CEO for Telecommunication Services Malcolm Peto:

> "In a recent IBM poll and subsequent article in Newsweek Magazine, 1500 CEOs identified creativity as the number one leadership competency for the future. Do you agree that creativity is a key leadership competency in your organization?"

Executive Views

Levinberg: I agree. Creativity is more what we call the critical to the success of the satellite 'Newtec Innovation industry than most industries. Creativ- Framework'. ity is certainly a key factor at Gilat, and it has been for a long time.

Van Herck: Oh yes. Creativity is a top more about Newtec's priority at Newtec. It is part of our innovation DNA.

Peto: Creativity is a principal compe- of it? tency in Astrium's business and, as the poll suggests, it is evident that all suc- Van Herck: Essencessful businesses feel this way.

Lou Zacharilla (LZ): So we all agree. fined only to the product development LZ: So you invented it? The question now is how to use the group. We knock down walls and let foundational strengths of your busi- ideas flow. The framework enabled us Peto: We looked at our customers renesses, and the strengths of the satellite to grow revenues by 20% industry, creatively. How can our iners?

and making sure it goes there.

enough to create?

ness opportunities.

move as a result of very deliberate crea- would produce something brand new. tive process we have.

be part of an operational process? Isn't new market for satellite providers. this kind of like keeping lighting going on command?

creativity is not something that happens was required to create customers did not by coincidence. Creativity is a process exist. embedded in our organization through

LZ: That is interesting. We should talk framework in detail. But what is the essence

tially we believe that creativity is not con-

new, profitable and useful for custom- will want to hear. Satellite has unique scratch. strengths and advantages, but it is not always apparent how to deploy them LZ: And as we'll find out during your **Peto**: I think here you need to say that within industries that initially have no presentation on September 9th, the botthere is a difference between creativity compelling need for them. Are there tom line looks great as a result. and leadership. Leadership is clearly examples where, through creative thinkknowing where a company is headed, ing, you produced something new and Van Herck: Our DualFlow solution ultimately profitable?

LZ: So can we say that good leadership Levinberg: The most striking example by its performance during our client's allows a company to feel comfortable is the way we Gilat fundamentally invented the second largest communica- those are not my words. They belong to tions application on earth for VSATs. I Peto: Right. Without excellent leader- am talking about the satellite networks ogy company that does not focus on ship it is impossible to harness creativ- we built for Lottery applications. There product design and customer service ity and transform new ideas into busi- are more than 100,000 terminals deployed today, including many national lotteries. We determined that satellite's LZ: I recall being taught that Darwin's Levinberg: Leadership must also use unique benefits, dynamic bandwidth, theory maintained not that the strong innovation for market advantage. Gilat multicasting and wide coverage, when d is leading the industry in satcoms on the combined with a set of applications,

LZ: It has obviously paid off. You LZ: So creativity must be sustained and invented an application that led to a

Peto: In our case my business unit, Paradigm, looked at the market and Van Herck: Leadership ensures that determined that a type of financing that

"...Creativity is more critical to the success of the satellite industry than most industries. Creativity is certainly

a key factor at Gilat, and it has been for a long time..."

Joshua Levinberg, EVP, Gilat Satellite Networks

quirements with an innovative financing and service proposition and created a dustry consistently produce something LZ: That is what the audience in Paris billion dollar business opportunity from

enabled "a big advance in productivity and versatility in DSNG," as evidenced Tour de France coverage. By the way, our client. So it is clear that a technolcreatively has no chance to survive.

survive, but that those who adapt do. That is how to win the battle of evolution. See you at the Summit in Paris.





Lou Zacharilla is the Director of Development of the Society for Satellite **Professionals International** (SSPI). He can be reached at lzacharilla@sspi.org



MANAGED Services and Hosting

RETWORKS Broadcast • IP • Wireless

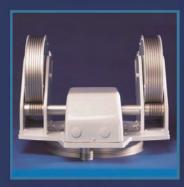
FLOBECOMM

Take Your Network To Its Leading Edge

info@globecommsystems.com







1994 Original Roto-Lok® Cable Drive



2001 First Mobile VSAT

eading the way



2005 First Carry-On Suitcase

AVL TECHNOLOGIES

designs for ultimate performance

GVF Maritime Satcom Forum



by Martin Jarrold

he satellite industry is taking a positive step forward in supporting the maritime community through the creation of the GVF Maritime Satcom Forum. This new working group, being spearheaded by the GVF, includes the top manufacturers, network operators and service providers in the industry.

Over the past five years demand for data services and the transfer of digital information on board vessels has dramatically increased and as a result the use of satellite technology has rapidly expanded. We have seen a number of GVF members begin to support this growing market and offer solutions to increase the communications capabilities on board vessels. Predictions for continued growth are significant and a number of factors are helping to drive this expansion:

- Ship owners/Operators are treating vessels as an extension of the office
- Increased demand for on-board business applications
- Decrease in hardware/service costs
- Increase in satellite coverage over ocean routes
- Smaller antennas
- Standardization of products
- Increased focus on services and solutions, not just hardware

Despite the increase in demand for new networks and services satellite technology faces a major challenge in communicating its value proposition to the end customers (Ship owners/Operators/Leasing Companies). The increased demand for satcom solutions has resulted in a multitude of network operators and service providers launching varying levels of services into the market place. This has impacted the value proposition of satellite technology as increased levels of competition have resulted in large amounts of misinformation reaching the end customer.

"As the satellite communications industry and the maritime industry become more dependent on each other it is essential that we work together," states David Hartshorn, Secretary General at GVF. "We need to eliminate the confusion and help the maritime industry successfully adopt satellite technology to solve their business challenges." "It is our hope that the new GVF Maritime Satcom Forum will be the first step."

The objectives of the GVF Maritime Satcom Forum are as follows:

- To create a unified organization that presents a single voice for promoting satellite technology in the maritime industry.
- To expand the deployment of satellite technology through training and education at the end customer level.
- To create a forum where satellite equipment manufacturers, service providers and satellite operators can discuss the current market status, industry trends and future developments of the maritime communications industry

The GVF's Maritime Satcom Forum is the first in a series of groups that will target key vertical markets. The strategy will be to heighten awareness of satellite solutions in the maritime sector, strengthen advocacy efforts, expand delivery of training, facilitate new projects, and more.

A primary focus of the Forum will be to promote the use of satellite technology to the shipping industry. This will be accomplished through a number of different activities including Public Relations, Conferences & other Trade Events, liaison with Maritime Industry Associations, Advocacy, and Training.

GVF is an experienced, non-profit association that is recognised as being perfectly suited to create a more focused program to promote satellite technology deeper into the maritime vertical. Over the past few years they have hosted a series of conferences in various regions focused on key elements of maritime satellite communications. The Maritime Satcom Forum will utilize the structure and support of the GVF, combined with the experience and knowledge of industry experts to promote, educate and train the maritime industry on the value of satellite communication. GVF is pleased to invite wide industry participation in this newlyformed group.

An initial meeting of the GVF Maritime Satcom Forum will take place on 17th September at the Waldorf Hilton Hotel in London, following the conclusion of the Comsys 'VSAT 2010' conference. GVF Members interested in supporting this initiative or taking a leadership role as part of the advisory board are invited to contact the GVF Secretary General at david.hartshorn@gvf.org

Martin Jarrold is Director of International Programs of the GVF. He can be reached at martin.jarrold@gvf.org



+1-877-214-6294 www.wavestream.com



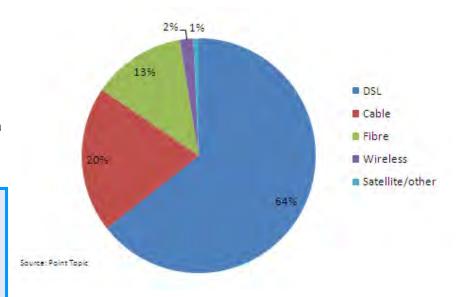


Everyone is talking about broadband being the future. But currently only one percent of broadband connections are via satellite. This is understandable, since broadband connections are concentrated in urban areas well served by terrestrial networks. However, there is certainly a lot of room for satellite broadband technology to increase its share of this vital market.

ADVERTISERS' INDEX

AAE Systems6
www.aaesys.com
Amos Spacecom
www.amos-spacecom.com
Arabsatcover & 2
www.arabsat.com
AVL Technologies22
www.avltech.com
CASBAA Convention 201015
www.casbaaconvention.com
CET Teleport29
www.cetteleport.com
www.cottoreport.com
Gazprom Space Systems18
www.gazprom-spacesystems.ru
Globecomm Systems25
www.globecommsystems.com
Intersputnik5
www.intersputnik.com
SatService GmbH19
www.satservicegmbh.de
W.B. Walton Enterprises27
www.de-ice.com
www.uc-icc.com
Wayestream 26

Broadband Market Share by Technology



Source: Point Topic/ World Broadband Forum.



Introducing our new solution to your De-Icing needs



Now you can De-Ice a 4.5 meter antenna with only 100 watts of power, a 2.4 meter antenna with only 50 watts of power!

W.B. Walton Enterprises, Inc. P.O. Box 1328 Riverside, CA. 92502 Office: (951) 683-0930 Fax: (951) 684-5019

Snow Shields

Snow Shields from 0.60 to 6.3 meters





De-Icing Systems 2.8 to 32 meters Gas and Electric Systems



Sales: sales@de-ice.com Tech Support: tech_support@de-ice.com Web Site: www.de-ice.com

www.wavestream.com

The Satellite Markets 25 IndexTM

Company Name	Symbol	Price (Aug 31)	% Change from 2-Weeks Ago	52-wk Range	% change from 52-wk High
Satellite Operators Asia Satellite Eutelsat Communications Hughes Communications Inc. Inmarsat SES Global FDR	1135.HK	12.60	5.18%	9.80 - 12.90	2.33%
	ETL.PA	28.91	2.01%	18.42 - 29.49	1.98%
	HUGH	23.74	-5.34%	21.19 - 31.52	24.68%
	ISAT.L	700.50	-4.95%	503.00 - 831.00	15.70%
	SES.F	18.23	1.96%	13.43 - 19.01	4.08%
Satellite and Component Manufactu Boeing Company (The) COM DEV International Lockheed Martin Corporation Com Loral Space and Communications Orbital Sciences Corporation Co	REA	62.85	-7.76%	47.18 - 76.00	17.29%
	CDV.TO	1.75	-16.27%	1.61 - 4.15	57.83%
	LMT	70.20	-6.59%	67.39 - 87.18	19.48%
	LORL	54.16	13.21%	19.27 - 56.85	4.73%
	ORB	13.29	-9.22%	12.38 - 19.63	32.30%
Ground Equipment Manufacturers C-COM Satellite Systems Inc. Comtech Telecommunications Corp. CPI International, Inc. EMS Technologies, Inc. ViaSat, Inc.	CMI.V	0.28	-5.08%	0.26 - 0.36	22.22%
	CMTL	20.88	-3.20%	20.19 - 38.39	45.61%
	CPII	14.26	1.35%	9.12 - 16.20	12.01%
	ELMG	15.05	-9.56%	12.00 - 21.33	29.44%
	VSAT	35.79	-0.97%	23.94 - 38.19	6.28%
Satellite Service Providers Gilat Satellite Networks Ltd. Globecomm Systems Inc. International Datacasting ORBCOMM Inc. RRSat Global Communications Net	GILT	4.93	-6.63%	3.95 - 6.25	21.12%
	GCOM	6.81	-17.25%	6.36 - 8.99	24.25%
	IDC.TO	0.24	-5.88%	0.22 - 0.34	29.41%
	ORBC	1.89	0.53%	1.64 - 3.23	41.49%
	RRST	7.30	-16.09%	7.02 - 13.21	44.74%
Consumer Satellite Services British Sky Ads DIRECTV DISH Network Corporation Globalstar, Inc. Sirius XM Radio Inc.	BSYBY.PK	43.75	-2.54%	30.54 - 45.87	11.98%
	DTV	38.32	3.12%	24.20 - 39.89	3.91%
	DISH	18.38	-8.47%	15.67 - 24.16	23.92%
	GSAT	1.63	-7.39%	0.61 - 2.11	22.75%
	SIRI	0.9786	-4.99%	0.51 - 1.25	21.70%

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	Index Value (August 31)	% Change 2 Weeks Ago	% Change Jan. 2010	% Change Jan. 2008
Satellite Markets 25 Index TM	1185.58	+ 0.93%	+17.64%	+13.84%
S & P 500	1078.16	- 1.27%	- 3.43%	-25.23%

© 2010 Satellite Markets and Research, Satellite Executive Briefing and the Satellite Market Index are trademarks of Synthesis Publications LLC. Synthesis Publications LLC is the owner of the trademark, service marks and copyrights related to the Index. This newsletter does not constitute an offer of an investment product. Satellite Executive Briefing makes no representation regarding the advisability of investing based on the information provided in the Satellite Markets Index. All information is provided 'as is' for information purposes only and is not intenteded for trading purpose or advice. Neither Satellite Executive Briefing nor any related party is liable for any informational error, incompleteness or for any actions taken based on information contained herein.

Join The Newest Video Neighbourhood!



- The place to be for new platforms thematic, ethnic and new HDTV channels
- Prime neighbourhood due to adjacent premium HOT BIRD™ position at 13° East
- Large coverage reaching more than 300 million TV households across Europe and MENA
- Available capacity and very attractive rates

CET Teleport

CET Teleport GmbH
Bexen 2, 31855 Aerzen, Germany
Tel: +49 (0)5154 937 1500
Fax: +49 (0)5154 937 1111
info@cetteleport.com
www.cetteleport.com

Company Profile



Arab Arabsat been serving the growing needs of Satellites the Arab world over vears.

est satellite operator & by far the leading satellite services provider in the ME . & Africa, it reaches millions of homes in over 100 countries across the ME, Africa & Europe; including more than 164 million people within the 21 Arab coun-

Operating a growing fleet of owned satellites at the 26° East and 30.5° East positions of the geostationary orbit, Arabsat is the only satellite operator in the MENA region offering the full spectrum of Broadcast, Telecommunications and Broadband services. This capacity will continue to expand with the launch of • new satellites from 2010 to 2012, making the Arabsat satellite fleet the youngest in the region with the highest possible reliability coupled to ultimate flexibility. This translates to a now unrivalled in-orbit backup, as well as more . space capacity than any other player in the region for more TV and radio broadcasting services, professional data network solutions, telephony and IP trunking backbone connectivity, and broad- This variety of satellites enables Arabsat . band Internet access for media and to provide the highest downlink power entertainment companies, corporate and the widest coverage area over the customers and government entities.

Arabsat also maintains strategic partfarther than ever and deliver content or the region. state of-the art solutions to any endaround the world.

Arabsat is committed to staying at the forefront of satellite services in the region, continuously expanding its range of customer oriented solutions with an unparalleled level of quality, bringing in to reach their final audiences 24/7, cutting-edge technology, and providing wherever they are. the largest ever amount of capacity to meet the growing and evolving needs of Services its customers across the Arab world and beyond. To support this ambition, Arabsat customers use its satellites for

Arabsat

Founded in 1976 Arabsat has announced that, after two main ranges of services: by the 21 mem- launching two new Satellites in 2007 & ber-states of the 2008, Arabsat will continue to launch Broadcasting League, one new satellite every year over the has coming four years.

30 From a technical perspective, Arabsat Now currently operates capacity on five ranked as the owned satellites at its 26° East and world's 10th larg- 30.5° East orbital positions.

- Arabsat BADR-4. 26°E Direct-to-Home (DTH) "Hot Spot" in Ku-
- Arabsat BADR-6, 26°E Direct-to-Home (DTH) "Hot Spot" in Kuband; and C-band for Telecommunications.
- Arabsat BADR-5, 26°E Direct-to-Home (DTH) "Hot Spot" in Ku-band & Ka-band.
- Arabsat-2B, 30.5°E essentially carrying Telecommunications services in both C-band & Ku-band. and it will be moved to 20° E once 5-A is launched.
- Arabsat-5A, 30.5°E, Telecommunication services in both C-band & Ku-band, covering the African conti-

MEA (Middle East & Africa) region compared to any other satellite operator. In addition, with its new state-of the-art We are now closer to our customers nerships with most of the world's lead- BADR-6 & BADR-5, and Arabsat 5-A, with four active regional offices in Dubai ing satellite companies and VAS inte- Arabsat will have by far the youngest, grators, allowing customers to reach and therefore the most reliable fleet in

viewers audience or business partner Also, through a series of strategic partnerships with the world leaders in satellite communications, Arabsat also provides seamless complementary connectivity with the rest of the world via its "Global Arabic Bouquet" digital platforms, enabling its Broadcast customers

- Digital Direct-to-Home TV & Radio broadcasting (DTH). An Arabic digital bouquet of channels to Arab viewers in Europe, Africa, North & South America, and Asia;
- Video Distribution:
- Backhauling links from contentorigination sites to multiplexing and uplinking sites;
- Video Contribution:
- Occasional Use: program exchanges and feeds, e.g. News, Sports, and Special Events.

Telecommunications

- Voice & Data trunking;
- Regional Telephony;
- Internet backbone connectivity;
- Data networks:
- Public/Government networks, mostly domestic;
- Private networks, either intraregional or domestic.

Locations

(UAE), Cairo (Egypt), and Paris (France), in addition to our headquarters in Riyadh (Saudi Arabia) and two control earth stations in Riyadh and Tunis. Also, Arabsat now offers One-Stop-Shop services available by partnering with Media hubs & Teleports (Lebanon, Jordan, Egypt, UAE, Kuwait, and Spain).

For further information, please contact: Arab Satellite Communications Organization P.O. Box: 1038, Diplomatic Quarter, Riyadh 11431, Kingdom of Saudi Arabia. Fax: +966 1 483 0940 Email: info@arabsat.com or go to:

