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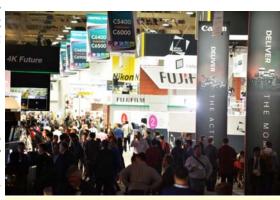
Industry Trends, News Analysis, Market Intelligence and Opportunities

NAB 2014 to Highlight the New Multiplatform Ecosystem

by Virgil Labrador, Editor-in-Chief

According to most research, broadcast services rep- Cloud. As a result, it's now the consumer who has resent the largest business segment for the satellite control - and they are demanding a fully con-

industry. However, the NAB show has been undergoing major changes that reflect the changing multiplatform media. If you haven't been to NAB recently, well, you probably won't recognize it. In fact the lines between the Consumer Electronics Show (CES) show in January and this month's NAB, both held in Las Vegas, are blurring. Which is why, perhaps, the CES and the NAB do not use the use the full names of their acronyms anymore.



This year's NAB will highlight the new multiplatform media environment. (photo: NAB)

I attended my first NAB way back in 1996. then, broadcasting was pretty straightforward—it forms, according to the organizers. was dominated by the major networks and consisted mainly of television, radio and cable distribu- With three spacious halls and an outdoor exhibit through what is now called traditional broadcast ground city like Las Vegas, it's easy to lose sight of media but to computers, mobile devices, smart the big picture in a show like the NAB. So here's a phones, tablets, iPads and other devices. Unlike concise guide to the key things to expect, see and before, where content ie ether broadcasted over do at the NAB for those in the content management the air, sent over cable or satellite, now we have IP

distribution, streaming media and Over-the-Top (OTT) services that bypass traditional media distrihe annual NAB convention to be held in Las bution chains. As the NAB puts it: "Platforms are Vegas this month is arguably one of the most multiplying faster than ever before. TV becomes important shows for the satellite business. IPTV. Mobile becomes Social. Social goes to the

> nected, interactive, personalized content experience."

The new media will be showcased this at year's NAB. Over 90.000 participants from 155 countries ar expected to attend this year's NAB. There will be more than 1,500 exhibitors, 200 of which are exhibiting for the very first time. NAB is being positioned as the

meeting place for professionals who create, man-Back age and distribute entertainment across all plat-

Nowadays, content is distributed not only area, not to mention the distraction of a vast play-

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A Tale of Two Shows



ast month, by some scheduling quirk, that may have been deliberate, the Satellite show in Washington, D.C. and Cabsat in Dubai, UAE were held on the very same days from March 11-13. Satellite companies were at a quandary on whether to attend one or the other or both. Some ended up choosing one show over the other and some split their teams between the two shows, with a reduced presence.

For us at Satellite Markets and Research, for which global coverage is of the essence, we had to be at both shows. We had contributing editors at Satellite and a booth at Cabsat. I personally, attended the first day of Cabsat, took a redeye flight from Dubai to Washington, D.C. and arrived just in time to catch the opening of the second day of Satellite. It was like *déjà vu*. At Satellite, the Executive of the Year Award honored this year's winner ARABSAT CEO Khaled Bhalkeyour and one of key receptions I attended at Satellite was at the UAE embassy hosted by Thuraya and Al Yah Sat—both companies based in Dubai!

It was evident that most of the senior staff of Middle East-based satellite companies opted to go to the Satellite show this year. There was a marked decrease in traffic in the satellite areas of Cabsat this year, no doubt, partly as a result of the scheduling the show at the same time as Satellite. This was unfortunate as, the Middle East is truly a growing region for satellite services and those who stuck it out this year attest to the opportunities evident at Cabsat. Thankfully next year, both shows are to be held at separate weeks. I certainly wouldn't recommend anyone going through two shows in two continents in three days.

Virgil Labrador, Editor-in-Chief

WEB EXCLUSIVES:

Access video interviews from CABSAT and SATELLTE 2014

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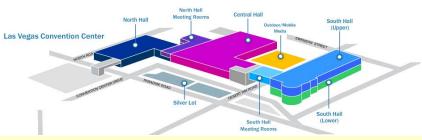
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NAB 2014 ... From page 1

and delivery business such as satellite and other service providers.

Most of the satellite and other content distribution companies will be at the South Hall Upper level (see map). Others will in the Outdoor Exhibits area between Central and South Halls. guide to some key exhibiting companies is available on pages 28-32 of this issue.



Map of the sprawling Las Vegas Convention Center which will host the NAB 2014.

platform (feature on page 15 of this issue) at their booth at final product across mediums." SU 3421 and also check out Work Microwave, which is exhibiting at the NAB for the very first time at SU 8525.

Futures Park at the North Hall. The Futures Park will feature demonstrations of high-tech media developments in progress, prototypes, and



products not yet available for sale, from academic, government, and commercial research laboratories in the United States and around the world. Japanese public broadcaster **NHK** will present the latest iteration of its Super Hi-Vision system at the Futures Park. This will be the first time anylong-distance, single-channel, over-the-air 8K test broadcast ciently acquired, exchanged and distributed. recently conducted in Japan.

Spanish satellite operator Hispasat (booth SU 9821) will be everyone at the NAB. But the key is to plan carefully, as you launching at the NAB the first full-time dedicated 4KTV can easily be overwhelmed and distracted. If you find yourchannel on Monday, April 7 at 5 pm.

as JVC, Panasonic and Sony among others showcasing the We'd love to hear from you. latest in Ultra HD or 4K TV. But Ultra HD is now almost

mainstream, and the next step in its evolution is 4K distribution to mobile devices. If you're in-SPROCKIT terested in where 4K technology

is going, don't just limit yourself to the major players, check out the new upcoming and start-up companies at the SPROCKIT and StartUp Loft exhibits at the Central Hall.

"Consumers expect the content they consume to be delivered in crisp, rich resolution, regardless of device," said Chris Brown, executive vice president for Conventions and Business Operations at NAB. "The advent of new standards

If you're interested in seeing some new products in the con- bring new challenges: capturing 4K-quality content, editing tent distribution, I recommend seeing Newtec's new Dialog and archiving resource-intensive footage, and distributing a

For conference sessions on 4K, there will be on Monday, April 7, the Super Session panel "Consumers, 4K and Next For a glimpse of the future, don't miss the new NAB LABS Gen Home Entertainment -- Which Experiences Will Most Excite Them?" The session will place a spotlight on the various features and stakeholders within the 4K ecosystem, identifying the next generation of home entertainment experiences that will excite consumers.

On Tuesday, April 8, NAB Production World attendees will learn how to scale production equipment to 4K standards and beyond at "In Depth: Moving Beyond HD: 2K, 4K, 6K & More." On Wednesday, April 9, there will be a session titled where in the world outside Japan that wireless transmission "The Future of 4K UHD - Examining Methods to Acquire, of 8K Super Hi-Vision has been demonstrated over a single 6 Exchange and Distribute Content" will provide details on the MHz TV channel. NHK will also present detailed results of a technologies through which UHDTV can be reliably and effi-

With its sheer scope and size, there really is something for self at the South Upper Hall, do drop by our booth at SU 10214. We will be doing for the first time this year, brief There will be many huge booths by major corporations such "man on the street" video interviews with NAB attendees.





Virgil Labrador is the Editor-in-Chief of Satellite Market and Research based in Los Angeles, California. He is the author of two books on the satellite industry and has been covering the industry for various publications since 1998. Before that he worked in various capaci-

ties in the industry, including a stint as marketing director for the Asia Broadcast Center, a full-service teleport based in Singapore. He can be reached at virgil@satellitemarkets.com

Satellite Executive Briefing

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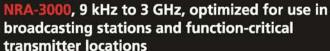
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to evolve as what once was novel is becoming more mainstream, and relative newcomers are starting to become leaders instead of followers.

Netflix, which only introduced its streaming service in 2007, now has over 33 million subscribers in the US, almost as many as satellite Direct-to-Home (DTH) operators DirecTV and Dish combined, and accounts for approximately 32% of all downstream fixed Internet traffic during peak hours. Interestingly, neither Amazon Prime Video nor Hulu both of which offer a similar service come close, accounting for less than 3% of fixed peak internet been announced that are likely to intraffic between them. For mobile users crease that percentage. the top spot goes to YouTube which accounts for 18% of downstream traffic **HEVC** during peak hours.

Last year both Netflix and Amazon entered the content creation market with original dramas. Netflix produced House of Cards, which went on to win three Primetime Emmy Awards and Amazon produced Alpha House. Ama-

Alpha House and Beta scored highest, will enable viewing of the 4K content. so Amazon went onto to produce them. A pretty efficient way of enter- HEVC provides superior compression ing the content market! This methodology was obviously considered a success as it was repeated this year when in February viewers were given another ten new pilots to view and rate. Making TV drama is not a cheap venture, currently homegrown content accounts for less than 10% of Netflix's content spend, which is budgeted for \$3B in 2014, but additional productions have

Netflix and Amazon are now both producing and streaming in 4K. At the moment this represents a very small percentage of their business, but obviously something that they are both intending to grow. In January at the CES Show in Las Vegas, Netflix an-

onsumption of video continues zon adopted an interesting approach, nounced partnerships with Sony, LG, essentially harnessing the power of Vizio and Samsung all of which will ininternet to decide what to produce. clude a Netflix App and High Efficiency Initially Amazon viewers were offered Video Coding (HEVC also known as 14 pilot videos for viewing and rating, H.265) decoders in new TV sets which

> (approximately 2x) compared to the current standard H.264 and is needed to deliver the higher bandwidth 4K (aka Ultra High Definition - UHD) content. At about the same time Amazon announced that it will be working with Samsung, Warner Bros., Lionsgate, 20th Century Fox and Discovery amongst others to deliver 4K content. Netflix has said that it will stream UHD at 15.6Mbps, many in the industry think that this may not be adequate and say that 20-22Mbps will be needed. Either way if this becomes popular Netflix is likely to start accounting for more than 32% of peak internet bandwidth. The effects of this remain to be seen: on the one hand it could result in Internet Service Providers (ISPs) selling more premium (i.e. higher data rate) packages, or it could result in some ISPs throttling back the service raising ques

consumers are complaining about the home WiFi system. quality of streamed video. Millennials abandon video if it is slow loading or of the end of TV as we know it? Not yet! poor quality. We also need to remember that those Millennials are no longer Cross-Platform Viewing just teenagers - the oldest ones are now 34 years old.

What is interesting is that since the March, shows that in Q4 last year the from a global survey from Ericsson Contraditional

broadcasters are still hesitant about distributing 4K content it could mean that viewers introare duced to the format new courtesy of the streaming services Netflix and Amazon.

In **February** Netflix and Comcast came to "mutually inbeneficial

vide Comcast's U.S. broadband custom- traditional and time shifted TV was ers with a high-quality Netflix video 155.32 hours whereas the time spent. It would appear that there is still a marexperience for years to come." This is watching video on the internet or a ket waiting to be had, by anyone who the first such agreement in the US, but smartphone was 8.56 hours, i.e. only can come up with a good way for viewthe companies have stated that Netflix 5.5% of the time spent on traditional ers to sift through all the numerous will receive no preferential treatment, TV. However that does represent an channels and other sources of content the agreement simply provides for a increase of 29% from the same quarter available to them. A survey by DigitalSmore direct connection between Net- the previous year. Time spent watch- miths at the end of last year found that flix and Comcast.

tions of net neutrality again. It must the UK the BBC iPlayer to be played on according to Ericsson 41% of 65-69 also be remembered that already some any High Definition TV connected to a

in particular are very sensitive to qual- So, does the popularity of streaming the same rate by 2025 we will be ity and performance and will quickly services and Netflix in particular mean

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Last year Google launched its Chromecast service which enables any TV connected to wifi to access streaming content from Netflix, Hulu, Amazon **Prime Video and others.** (image courtesy of Google)

terconnection agreement that will pro- average monthly time spent watching content related to the main screen. ing traditional or time shifted TV was 31% of consumers are overwhelmed by virtually static from the previous year. the choices and 80% still watch ten or Google has its own way of impacting It almost goes without saying that Mil- fewer channels. the streaming market. Last year it in- lennials and the as yet unnamed gentroduced Google Chromecast, a dongle eration following them, are watching According to data released in March by

year olds are viewing streamed content weekly. Assuming the growth in time watching streamed media continues at watching as much streamed video as we are linear TV today.

Second Screen

Nielsen's Cross-Platform Report - a Much has been written about the rise survey of US viewers - released in of the second screen. Recent research

> sumer Lab indicates that 75% of viewers multitask with a second or even third screen while watching TV often with something totally unrelated to the content being viewed, with 25% of multitaskers even watching second video source In the UK only 7% of second screens used to access

retailing for \$35 in the US (£30 in the less traditional TV and more internet Leichtman Research Group (LRG), 2013 UK) which enables streamed content Video than their older peers. However was the first year that the largest Mulincluding Netflix, HBO Go, Hulu and in the older generations are catching up - tichannel Video Program Distributors

(MVPDs) in the US (who between them account for 94% of the market) actually lost subscribers, albeit only 0.1%. Cable companies lost 1.7 million subscribers, but this was compensated for by the two Telco Services - Verizon FiOS and AT&T U-Verse - that added 1.5 million subscribers and the two satellite operators - DirecTV and Dish - who added 170K subscribers, resulting in a net loss of only 105K. Figures from Nielsen paint a somewhat different picture indicating that there are 1.3M broadband only households in the US. Both figures are likely to be true as the "loss" figures from LRG do not include households that did not have a video connection in the previous year.

Advances in Digital Compression

20 years ago there was one TV channel per transponder. Now thanks to advances in technology eight to ten Standard Definition (SD) channels are common. As a result many viewers are being faced with 500+ channels and, as noted above feeling overwhelmed as a result. It's interesting to speculate if we would have had the same number of TV channels that we do today, if it hadn't been for the advances in technology that made that economically possible. I think not! Now, thanks to recent work of the Digital Broadcasting Project (DVB) up to 37% improvement At this year's CES, as was mentioned in The transition to 4K is not the only on the number of channels per 36MHz transponder will be possible. Hopefully this will be used to smooth the introduction of 4K - which even with HEVC is going to need approximately twice the bandwidth of HD - rather than to add more channels to confuse viewers even more! The DVB is an industry-led consortium including broadcasters, manufacturers, network operators, software developers and regulators from around the world. Members include all the major satellite operators and equipment providers, Newtec in particular have been very active in decase for it. He went on to make the ness partners every day and the ability veloping and promoting DVB-S2X the point even more bluntly pointing out to do this digitally is now fundamental

"...It almost goes without saying that Millennials and the as yet unnamed generation following them, are watching less traditional TV and more internet Video than their older peers. However the older generations are catching up..."

Reception Systems at SES and also active in the DVB said in a panel hosted HD and he didn't think it was their job by Lou Zacharilla, Director of Development for SSPA and the WTA during Satellite 2014, "DVB-S2 was supposed to be the LAST satellite standard then... Newtec started tweaking it."

DVB-S2X provides a number of advantages over DVB-S2 including the ability to optimize link budgets with MOD-CODs up to 256APSK. Greater granularity, which means greater flexibility, is also possible due to the increased number of MODCODs and frame size combinations (113 vs. ~50 for S2). This actually brings the efficiency close to the Shannon limit. One new innovation in the standard that is likely to be very significant when UHD starts to roll out is the ability to bond capacity over several transponders, so if a broadcaster has small chunks of 4-5Mbps on multiple transponders these can now used to transmit one 4K channel.

Ultra HD

lite Executive Briefing, February 2014), one could be forgiven for thinking that workflows. 4K or Ultra High Definition (UHD) as it is

latest standard. As Thomas Wrede, VP, that the broadcasters didn't get one extra dollar of advertising revenue for to subsidize the Consumer Electronics Manufacturers. Having said that he also stated that all animated features were now being created in 4K as a means of future-proofing the content. John McCoskey EVP and CTO of the Motion Picture Association of America and formerly from PBS agreed with him stating that broadcasters will be the last to implement 4K for viewers, even though most content is now being produced in 4K. He also pointed out that regular HD content looked a lot better on a UHD screen. Martin Breidsprecher, CEO of Azteca America said that Mexico was seven to ten years behind the US and so far only had 5HD channels so it would some time before UHD to the viewer is implemented. Mexico is not alone. At the 17th World Summit for Satellite Financing held in Paris last September, Euroconsult stated there were 32,600 DTV channels at the end of 2102, of which "over 5,000" were HD.

a previous article I wrote ("CES 2014: challenge facing broadcasters at the What it Means for the Industry," Satel- moment. The whole industry is the throws of a transition to file based As McCoskey put it "everything between the glass on the also known is now mainstream. A very camera lens and the glass on the TV different picture emerged at a Broad- screen is digital". The industry is now casters Roundtable held in March at leveraging the power of the IT industry Satellite 2014 in Washington DC. to automate everything possible. Due When the question of 4K came up the to its sheer size and large R&D budgets Vince Roberts, EVP Global Operations that industry can move from concept and CTO, Disney ABC Television Group, to reality at a speed unattainable by said very clearly that as far as he was the broadcast industry. Disney ABC concerned as yet there was no business moves 10 TB around the world to busi-

Feature

to its business. Interestingly the logistics of doing this are now "outsourced" to the corporate IT department who already deal with the Tier One providers for the corporate (business) network.

From the broadcasters' point of view, satellite, which once was strategic to their business, is rapidly becoming a commodity thanks to increasing competition from fiber and now even LTE, which can be leveraged for SNG and disaster recovery. However as yet, satellite still has the edge when it comes to Point to Multipoint delivery, something which is crucial to the networks. 60% of ABC's schedule is live and has to be distributed to 230 affiliates in the US, satellite is still the best way of doing that. However we can't afford to be complacent as Disney's Roberts commented that ABC was experimenting with using the Cloud for pre-cached content to the edge.

From a network's point of view satel- lites to remain strategic and relevant lites need to be IP routers in the sky was to work with the fiber companies providing dynamic scalability, agility and offer a "one-stop-shop" as Intelsat and giving companies such as ABC the for example already does. ability to carve up the country in multiple ways to reach different DMAs as Conclusion and when needed. In other words the satellites that will meet the future The media landscape has certainly John suggested that one way for satel- this space!

needs of the networks are the High changed There are definitely challenges Throughput Spot Beam satellites pro- on the road ahead, competition from viding maximum flexibility. For other fiber and LTE coupled with the evolving broadcasters doing less live coverage nature of video consumption. Watch



Elisabeth Tweedie is Associate Editor of the Satellite Executive Briefing. She has over 20 years experience at the cutting edge of new communication and entertainment technologies. She is the founder and President of Definitive Direction a consultancy that focuses on researching and evaluating the long term potential for new ventures, initiating their development and identifying

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DTH Continues to Grow while Adapting to New Consumer Trends

by Dmitri Buchs

The DTH market remains dynamic despite growing pay-TV competition

couple of years. Nevertheless, the marber of platforms and revenues. ket continues to grow despite increas-

ing pay-TV competition and unfavorable economic conditions in several markets. This is favored by the fact that the DTH industry remains a reference for the distribution of digital entertainment thanks to a combination of technical advantages combine the benefits of digital TV (video compression and large TV offers) and the ability to cover an entire country or region for a limited capital expenditure.

Since the second half of the past decade, the DTH pay-TV market has

rapidly increased its geographical reach. In emerging digital markets, the large mature TV markets and some emerging and scope, reaching a critical size in availability of low-cost services (<\$10/ digital markets. In the coming years, an many markets, including a growing number of emerging digital markets.

In recent years, a growing divergence

scribers (10% growth over ica, Eastern Europe, Middle East & Af- by a tough economic context, as seen recent years vs. 15 % rica, and most of Asia) and mature mar- in Europe, and by growing pay-TV and growth in previous years) and revenues kets (North America, Western Europe FTA competition, including non-linear of \$100 billion in 2013 (5% growth over and several Asian countries including competition such as Over-the-Top recent years vs. 10% growth in previous Japan and Korea), with the former drivyears), the Direct-to-Home (DTH) pay- ing most market indicators such as sub-TV industry has slowed down in the last scriptions, number of channels, num- In coming years, the divergence in

ith around 220 million sub- emerging digital markets (Latin Amer- market has been negatively impacted (OTT), and Video on Demand (VoD).

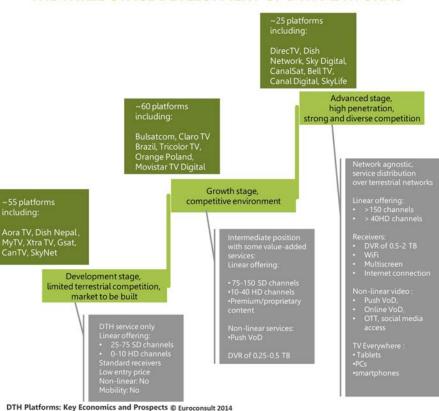
> trends between emerging digital markets and mature markets is expected to

> > remain and even widen, as growth in subscriptions, revenues and even TV channels should be driven entirely by the former. The market is expected to be particularly challenging for platforms operating in mature markets where IPTV and OTT services should experience strong growth.

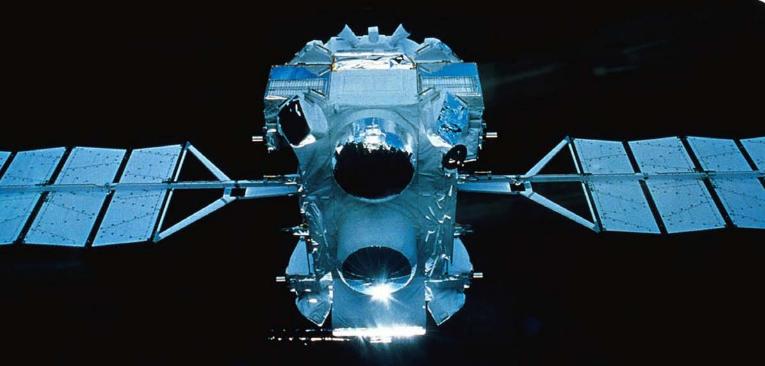
This competitive landscape already led to an adaptation of business models and service offerings in most

month), low pay-TV penetration and accelerated adaptation of business models and service offerings is planned scribing to pay-TV have had a positive globally as terrestrial competition impact on growth dynamics in recent should intensify in all regions. From a in trends has been observed between years. However in mature markets, the network agnostic approach for distribu-

THE THREE-STAGE DEVELOPMENT OF DTH PLATFORMS



the emergence of a middle class sub-



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Building Success from Innovation

tion to the rollout of next-generation Proprietary set-top boxes (STBs) play a receivers and the launch of OTT offerings, DTH platforms are increasingly going to expand their ecosystem.

DTH Companies **Strategize** linear content across multiple screens. Turn to Cross-media These new STBs enable home networkand **Platforms**

With competition increasingly coming connect to other STBs and mobile (iOS/ from non-linear providers, led by OTT Android) devices. They are major reve-

companies including Netflix, Hulu and Amazon Prime Instant Video, the current strategy of DTH platforms is to fight off their threat by giving customers access to content through one service and across multiple screens (TVs, tablets, PCs and smartphones). In order to do so, they are increasingly investing in solutions to keep customers connected with broadband and telephony products in the home via DSL and fiber, and on the road with WiFi and 3G/4G.

LAUNCH OF OTT SERVICES BY DTH PLATFORMS

central role in enabling platforms to

become cross-media providers. They

are increasingly investing in STBs that

enable viewers to watch non-linear and

ing and increasingly act as a digital TV .

gateway and or server that can notably

DIH platform	Country	OTT Service	Launch date		
Sky Deutschland	Germany	Sky Go	April 2011		
Dish Network	USA	Blockbuster Movie Pass	September 2011		
OSN	Middle East	OSN Play	November 2011		
Sky Brazil	Brazil	Sky Online	February 2012		
Dish Network	USA	DISHWorld	May 2012		
Astro	Malaysia	Astro On-The-Go	June 2012		
Sky Digital	UK	Now TV	July 2012		
Vivo	Brazil	Vivo Play	November 2012		
NC+	Poland	NC+ Go	September 2013		

DTH Platforms: Key Economics and Prospects © Euroconsult 2014

Becoming cross-media platforms has nue drivers as they are usually offered central part of service offerings in the not only become essential to better at an extra fee, pushing subscribers to DTH industry in the foreseeable future. compete against growing competition, purchase more content. Currently, Sky but also to adapt to new consumer Digital (UK) and Dish Network (US) own About the Report trends. Consumers are looking for con- two of the most advanced models tent in a more active way, including non-linear programming, multiscreen content is no longer sufficient for platforms operating in mature markets; this trend is expected to spread to emerging digital markets in coming years.

In order to implement their crossmedia strategies and to be better positioned against terrestrial network's triple/quadruple play offerings, a growing number of DTH platforms are including Internet and telephony services • in their offerings (>50% in 2013), through their own network (for example Sky Digital) or through partnerships with telcos.

available.

TV and on-the-go. Offering only linear With the expansion of Internetconnected households and the growing number of STBs with multimedia capabilities among DTH subscribers, DTH platforms have increased their focus on non-linear content. Non-linear services have a major positive impact on KPIs as they limit churn and increase revenues. In the future, they could also become a strong factor against cord-cutting. Such services include:

- VoD services are now offered by >2/3 of DTH platforms around the world such as CanalSat's CanalPlay VoD and Astro's Astro First;
- OTT services are offered by >10%

of platforms. So far, OTT services are mostly reserved for the platform's subscribers but some platforms such as Sky UK and Sky Deutschland are now offering standalone OTT.

Other non-linear services notably include catch-up services (CanalSat a la Demande) and Web TV streaming services (Dish Network's

Blockbuster Movie Pass).

If the DTH industry continues to adapt to new competition and consumer trends as it has started to prove in recent years, growth should continue in emerging and mature markets. Market growth is likely to be increasingly driven by nonlinear services, which will account for a growing share of DTH platforms' revenues in the coming years across all regions; yet linear services are expected to remain a

DTH Platforms: Key Economics & Prospects assesses the market structure, trends, drivers and current/future financial aspects of the direct-to-home pay-TV business. For more information visit: http://www.euroconsult-ec.com/



Dimitri Buchs is a Consultant of Euroconsult, based in Montreal, Canada. He specializes in the digital broadcasting sector. He is the main contributor to Euroconsult's research reports dedicated to the broadcasting sector including DTH Platforms: Key Economics & Prospects and Video Content Management and Distribution.



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Newtec Dialog®

t the CABSAT and Satellite 2014 shows last month, Belgium-based equipment manufacturer Newtec launched its Newtec Dialog® platform. Taking years to develop in R&D, Newtec Dialog® is the culmination of the many lesons learned by Newtec in serving diverse markets globally.

The result is a efficient, flexible and scalable platform that can do both consumer and enterprise services. "Newtec Dialog gives operators the power to offer a variety of new services on one platform always in the knowledge that they are using the most optimal modulation and bandwidth allocation," said Steven Soenens, VP-Product Management of Newtec.

Flexibility

Newtec Dialog® allows you to adapt your infrastructure easily as your business changes. That's flexibility. Newtec Dialog is built to allow flexibility in the choice of technology and equipment, but also the types of services and applications available, ensuring a completely flexible focus for the businesses using it. Newtec Dialog® gives service providers optimal efficiency enabling them to establish a business case for single or multiple markets using one single platform and Operations Support System / Business Support System (OSS/BSS).

Having a platform with these qualities opens up a multitude of possibilities for optimizing the usage of infrastructure and satellite capacity across different markets. For example, a provider with a history of servicing a majority of IP trunking clients can shift focus easily and begin targeting broadcasting, backhauling, consumer and enterprise VSAT or government and defense markets quickly using the same Newtec Dialog® infrastructure. The platform therefore enables operators to adapt to any business scenario and provides the capability of delivering tailored services.

Efficiency

Newtec Dialog® enables the most optimal modulation and bandwidth allocation. That's efficiency. Newtec's engineers have invented a new patented return link technology, which combines the best qualities of SCPC and MF-TDMA. The platform also supports SCPC DVB-S2, and Newtec S2 extensions return link for applications which demand high bandwidth and MF-TDMA 4CPM technology for highly overbooked services, such as Internet access for consumers,



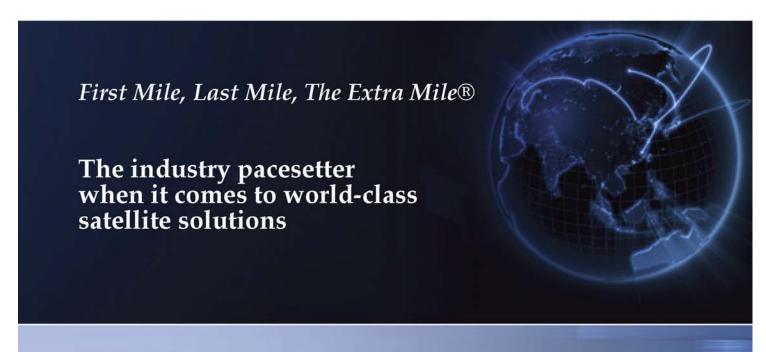
The Newtec Dialog® platform is a scalable and flexible multiservice satellite communications platform that allows satellite service providers to build and adapt their network easily as their business grows.

Key Features include:

- Supports multiple satellites, multiple frequency bands, regular and spot beam satellites.
- Scalable from 5 to +100.000s of terminals.
- Highly efficient DVB-S2 ACM and Clean Channel Technology in the forward link.
- Choice between SCPC, MF-TDMA and patented **Newtec Mx-DMA™** as return link technology.
- Hierarchical QoS management with 7 classes.
- Advanced Network Management System capabilities, both GUI and API, including VNO support.

timize the service delivered to individual end-customers via a simple configuration in the NMS. This can be done at any time and with minimal impact. The Newtec Dialog System is software upgradeable to support the new DVB-S2X in the return link as well. All return link technologies are combined with Newtec's core technology FlexACM®, a highly efficient Adaptive Coding and Modulation (ACM) algorithm SME/B2B and SCADA. The MDM3000 series of Newtec mo- using Newtec patent pending technology. With these techdems, which run on the Newtec Dialog® platform, support nologies, Newtec Dialog is able to provide the most optimal all three return link technologies enabling operators to op- modulation and bandwidth allocation at any time, for any





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Product Spotlight

application and any satellite, while guaranteeing the highest efficiency.

Scalability

Newtec Dialog® offers a platform to build a business to the size the client requires. The platform is designed to be used for every type of networking: from the very smallest, with for example five remotes, up to the very largest, having hundreds of thousands of remotes, from single coverage to multi-spot High Throughput Satellite (HTS) networks.

Additionally, operators can invest as the business grows, the HUB scalability and flexibility enables low up-front CAPEX requirements. The platform will use Newtec's proven modems, including both the MDM2000 and MDM3000 series. The modems have many features embedded off-the-shelf including acceleration and compression, encryption, multi-language web GUI and IPv4/IPv6, as well as having the advantage of being easy to install using Newtec's Point&Play® self-installation system.

According to Didier Tymen, VP-Sales for EMEA, the response to the Newtec Dialog® a launch at CABSAT was very enthusiastic. One of the first clients to sign up with Newtec is Airbus Defense and Space which signed a contract to deploy Newtec's Dialog platform as the technology of choice for providing global fixed VSAT solutions. In the coming months, new network hubs will be delivered and installed in several Airbus teleports serving Enterprise and Government customers, with remote VSAT terminals being deployed all across the globe.

Erik Ceuppens, Head of Satellite Communications at Airbus Defense and Space said: "Being faced with ever evolving markets requirements and the need to make more efficient use of our space segment, Newtec Dialog platform turned out to be the most future-proof technology choice for Airbus Defense and Space. It will power our next generation Enterprise VSAT services that will be launched later this year, as part of our AuroraGlobal initiative."

View a video interview with Steven Soenens, VP-Product Management and Didier Tymen, VP-Sales,



EMEA of Newtec on their new Newtec Dialog platform at :

www.satellitemarkets.com/newtec-2014



Is There a Future without Acquisition?

by Lou Zacharilla

he day before one of the largest operators on earth, Arqiva, was named the industry's Independent Teleport Operator of the Year at the annual WTA awards luncheon in Washington, DC, its Managing Director of satellite, Berrie Woolston gathered with other member teleports to discuss the subject of growth. Among the topics was whether small teleport operators, especially those experiencing rapid growth, could have a future without an acquisition.

My job was to moderate a panel that included the heads of two of the world's best small operators, Jorge Luis Villarreal Schutz, CEO of Mexico's Elara Communications and Tomaz Lovsin, Managing Director of Satellite Telecommunications Network (STN) in Slovenia. I wanted to ask what they thought their "next act" would be, and see if Arqiva was their model or mentor – or neither. The two "indie" operators were joined by Eric Greenberg, a partner at the law firm of Paul Hastings, whose firm hosted the WTA Members event. I asked, "Do you grow big, or do you go home?"

Excerpts the back and forth between Jorge, Tomaz, Eric and myself follows:

Lou Zacarilla (LZ): Let's get right to the issue. Jorge and Tomaz, can your companies continue their organic growth and succeed?

Jorge Villareal (JV): Well, the main challenge we face is to find a way to maintain our fast growth, which has been nearly 40% per year for the past few years. To date, our focus on the enterprise market in Latin America, and our success with customers, has given us all the fuel we need to grow.

LZ: Tomaz, you are in a different part of the world, Europe. However you are also growing fast and steady – and confidently. Can it continue?

Tomas Lovsin (TL): Our growth rate puts STN in the "goldilocks zone" of organic growth.

LZ: Meaning you are growing "just right" and the wolf is nowhere in sight?

TL: Meaning that it is dangerous for a company to inflate its growth in a condensed period of time because you risk losing control over your whole process of managing the company and can make things worse. We are a family-owned business which leans toward managed growth internally. For us a 15-20% annual growth rate is viable.

LZ: Are both of you saying growth by acquisition is not an option? Or simply not a preference?

"... The regulatory climate in Mexico is changing in favor of small to medium-sized telecom carriers, which will benefit our company and allow us into niches. ..."



-Jorge Luis Villarreal CEO, Elara Communications

JV: No. I am not saying that at all, Lou. While we still believe that there is room for organic growth in our region we are considering additional growth opportunities and, yes, acquisitions in certain verticals.

TL: In ten years as a provider of video/audio broadcast and

Satellite Executive Briefing

IP data services via satellite we have evolved from a small regional player in this part of Europe to a world-renowned teleport. We are up to 50 people and managing STN in line with our internal, intended growth strategy. As long as we can manage our growth as we intend it, there is no need for acquisitions.

LZ: So you rule out acquisitions altogether?

TL: No. We have a medium-term plan (three to five years) which factors in several options, including acquisition and sale. But these are simply among the options. At the moment, I foresee STN continuing on its current course.

LZ: Are there market or regulatory factors in Mexico and Central and Eastern Europe that support your optimistic views?

JV: The regulatory climate in Mexico is changing in favor of small to medium-sized telecom carriers, which will benefit our company and allow us into niches. The larger companies will also be subject to new rules with regard to sharing infrastructure which will open new opportunities for Elara. We are entering a new phase in our satellite industry, which includes the advance of Ka-band and HTS as well. I also believe we will see innovations that will allow us to complement terrestrial networks more than before.

TL: Slovenia's national regulatory agencies are more concerned with regulating terrestrial frequency spectrums for digital terrestrial TV, mobile telephony, etc., rather than regulating satellite broadcasting.

LZ: The EU's role seems to be to set basic ground rules and

"...acquisitions are essential to growth. Whether one seeks to be acquired or to be the acquirer is a fundamentally different strategic question..."



-Eric Greenberg
Partner, Paul Hastings Law Firm

"...Slovenia's national
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with
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terrestrial
frequency



spectrums for digital terrestrial TV, mobile telephony, etc., rather than regulating satellite broadcasting.

-Tomaz Lovsin
Managing Director, STN

support common interests, such as open markets and fair competition. If new technologies are hitched to largely unregulated environments, there could be a good period ahead for you.

TL: Yes. Personally I am convinced that the EU will leave satellite broadcasting mostly unregulated. If it instigated quota rules such as we have seen, it would end specialized movie programs such as Sky Movies. A highly unregulated atmosphere makes conditions for us extremely favorable.

LZ: Eric, you have listened to the small teleport operators. They do not rule out acquisitions, but they prefer to keep control, at least for now. What is your view?

Eric Greenberg (EG): Ultimately, acquisitions are essential to growth. Whether one seeks to be acquired or to be the acquirer is a fundamentally different strategic question. Both Jorge and Tomaz have said that acquisition is a factor in their longer-term thinking.

LZ: *True.* What advice would you give them?

EG: The key to creating and maximizing the future sale opportunity is to anticipate the due diligence process *now*. This is especially key in the teleport industry, because con-

tractual relationships are key assets for the purpose of valuation. In addition, real estate assets can be crucial to a valuation, and often are a source for negotiation.

LZ: Unlike Barrie Woolson of Arqiva, there seem more psychological hurdles for these smaller managers because they feel much closer personally to their businesses.

EG: As we said at the WTA event at Paul Hastings, the nature of growth is itself an inherently personal and idiosyncratic issue. STN finds more appeal in a smaller, more flexible structure.

LZ: And Jorge comes from a corporate background and thinks differently. Should both be more flexible?

EG: They should keep the door open. They should think like acquirers, asking "how can my advantages be maintained, nurtured or maximized?

LZ: So do they build it or buy it? Strong technology markets have created opportunities for entrepreneurs to start and grow innovative businesses, and some of these have become targets for acquisition and can contribute to a larger success story.

EG: The trajectory of the teleport industry suggests that they "buy it." It is the most efficient method. Acquisition can be an express lane to growth. We see it that way.





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The Road to a Sprint-T Mobile Merger Goes Through DISH

by J. Armand Musey

Mobile have approximately 18% and 12% market share retion). spectively and the remaining 9% of the market is split between approximately 100 smaller carriers.

The argument is that by combining, Sprint/T-Mobile would have economies of scale needed to more effectively compete with ATT and Verizon. They argue the significant syneror reduce prices in ways they otherwise couldn't afford.

Many market legal observers understandably skeptical the FCC will accept this argument (Note: communications industry mergers require both DoJ and FCC approval,

"...by combining Sprint/T-Mobile would have economies of scale needed to more effectively compete with The prospect of DISH as a ATT and Verizon. They argue the significant synergies (US\$1.5 to \$2.0 billion annually) would allow them to offer higher speed data and other advanced services and/or reduce prices in ways they otherwise couldn't afford..."

sumer services.

DISH to the Rescue?

more competition to ATT and Verizon, but is concerned later. about a reduction to three major competitors in the wireless industry. DISH, or someone working with them, is probably the only viable new entrant in the mature US wireless industry. DISH has 14 million existing customers they are billing. They already have relationships with critical retail distribution channels and hardware manufacturers. And DISH has approximately 55 MHz of spectrum nationally. Moreover, the DBS industry is seeing its subscriber base shrink because it lacks a broadband option that a wireless service might offer.

t's no secret that Sprint and T-Mobile have been explor- It's also clear the FCC would like to see DISH as a new ening a potential merger and that there are significant con- trant to the wireless industry. The FCC has bent over backcerns over whether such a merger would be approved. wards to give DISH terrestrial use of the AWS-4 spectrum at Sprint and T-Mobile argue that the US wireless market is a no additional cost, and then an option to convert all of it to near-duopoly dominated by ATT and Verizon with a com- downlink if they bid for the H-Block spectrum (an auction bined market share of approximately 61%. Sprint and T- that more resembles a negotiated bid than an actual auc-

Despite these advantages, DISH appears hesitant to enter the highly competitive wireless market. But what if Sprint/T-Mobile threw DISH a lifeline to enter the market in order to get approval for their own merger? Sprint/T-Mobile could offer DISH preferred roaming rates on their networks until gies (US\$1.5 to US\$ 2.0 billion annually) would allow them DISH completed its network rollout, sharing of other facilito offer higher speed data and other advanced services and/ties for a similar period, ensure that phones built for Sprint/ T-Mobile also worked on DISH's frequencies and a host of

> other benefits to facilitate DISH as a rapid new entrant. strong rapid new entrant to maintain four major players just might be enough to convince the FCC to allow the Sprint/T-Mobile merger.

but FCC approval is general considered harder. This because The obvious question is whether supporting a new entrant the FCC has a more nuanced "public interest" standard for is too much for Sprint/ T-Mobile to offer to get a merger approving a merger). In particular, a merger that involved a approved? With synergies of roughly US\$ 1.5 to US\$ 2.0 reduction from four major participants to three is often billion annually, they would be incented to make some sighard for regulators to accept. This is particularly under De- nificant concessions. Also, if DISH decides to enter later mocratic administrations and for merger involving con- without these advantages, perhaps motivated by a desire to offer broadband to stem subscriber losses, they may need to enter aggressively with very low prices. Thus, from a Sprint/T-Mobile perspective, it might be better to support DISH's entry in an orderly fashion sooner, rather than risking DISH may offer the solution assuming FCC would like to see a highly aggressive "scorch the earth" entry a year or two



J. Armand Musey is the president and founder of Summit Ridge Group LLC (www.summitridgegroup.com). Armand specializes in the satellite, media and telecommunications industries.

He has a unique blend of 16 years of equity research, investment banking and consulting experience. can be reached at: amusey@summitridgegroup.com

Satellite Executive Briefing



mission of films and live events via satellite is considered a fast, secure solution for broadcasting content to an unlimited number of cinemas in a given coverage area.

Background

DSAT Cinema manages the most comprehensive European network for cinema distribution via satellite. With more

than 1,000 cinema complexes ready under contract, **DSAT** Cinis ema leader in the delivery digital film and live 2D and 3D events Europe. Two critical players in digital cinema, satellite opera-

NETWORK and EUTELSAT 8 WEST A CENTRE CINEMA

Schematic diagram of the DSAT Digital Cinema distribution via satellite

tor Eutelsat Communications and dcinex from Belgium, one of Europe's leading digital cinema company, created DSAT Cinema as a joint venture company in 2012.

Since its inception, DSAT Cinema has delivered more than 300 films and 50 live broadcasts, from locations that include Moscow's Bolshoi Theatre, New York's Metropolitan Opera, and the Royal Opera House in London.

As a joint venture, DSAT Cinema employs a vast cinema delivery network infrastructure based on the satellite expertise from Eutelsat and the operational support from dcinex

he cinema industry in Europe is transitioning from and satellite provider, OpenSky. Its current system utilizes celluloid (film) to digital. As this demand for digital two satellites, two teleports, a network operations center, a cinema content expands, the dematerialized trans- multilingual hotline and a logistical backup service by hard disks. DSAT Cinema plays an important role in the fastgrowing market for management and distribution of digital cinema content across Europe.

> DSAT Cinema's network represents more than 7,000 cinema screens. Its fully equipped cinemas are mainly in Italy and France, which each account for more than 300 complexes, as well as an additional 200 cinemas in Austria, Germany

> > Switzerland combined. An additional 150 sites are located in Spain, Benelux, Czech Republic and Slovakia with the reinstallamaining tions principally in Romania Poland. and Scandinavia.

Requirement

DSAT Cinema's objective is to double the size of its

current network of 1,000 cinemas across Europe within the next two years. DSAT Cinema sought a balanced, longlasting relationship with International Datacasting Corporation (IDC), a leader in digital cinema, who supplied technology to its parent companies since 2008.

DSAT Cinema needed an experienced supplier of satellite solutions for the delivery of Digital Cinema Packages (DCPs) or movies over satellite. IDC provided the latest SFX Pro Video XTR receiver, a fully featured satellite receiver device which can receive DCPs at high-speed while simultaneously delivering 2D and 3D live events into digital cinema projec- for the encrypted distribution of live events to cinemas in tors. IDC also supplied a head-end capable of high-speed DCP broadcast, which also provides control and monitoring of thousands of deployed receivers, which is necessary to ensure the network is operating reliably at all times.

With more than a decade of experience and as a pioneer in satellite-based DCP and 3D live event delivery, IDC has a proven track record with the world's leading digital cinema content distributors. At present, more than 4,000 IDC receivers are shipped to customers on six continents. Seventy percent of the digital cinemas worldwide now rely on IDC's technology.

The Solution

IDC's Digital Cinema platform can ingest, verify and confirm delivery of content conforming to the DCP file and directory format devised by movie studios to enable the secure digital

either MPEG-2 or MPEG-4 formats.

DSAT Cinema was already successfully implementing both IDC's headend equipment located in Paris, France, and Vicenza, Italy, as well as 850 of the preceding SuperFlex Pro Video Receivers in the same network. Their expansion plans call for more than doubling their deployment of IDC receivers. The SuperFlex Pro Video XTR Receivers include a video decoder, file receiver and storage device in one receiver. This solution fully integrates with DSAT's existing IDC headend equipment. The SuperFlex Pro Video XTR Receiver enables both DCP delivery over satellite plus normal live events in 2D or 3D from one receiver.

The multi-functionality of the SuperFlex Pro Video XTR Receivers helps DSAT Cinema reduce capital expenditure. The IDC receiver decodes live video, and can receive DCP files, in parallel, on two different satellite carriers. Using capacity on the EUTELSAT 5 West A satellite, DSAT Cinema can broaddistribution of their valuable content. The platform can also cast digital content to all fully-equipped cinemas anywhere encode and decode high quality 2D and 3D linear streams in Europe, at uploads speeds of up to 70 Mbit/s. By combin-



Case Study

ing this capacity with a second transponder on this satellite or on EUTELSAT 8 West A, it is possible to achieve aggregate throughput of up to 140 Mbit/s, enabling a 150 GB digital film to be delivered in less than three hours. All IDC receivers are controlled from the DSAT Cinema network operations center to ensure fast and secure delivery of the content. This collaborative approach sets the stage for digital cinema content distribution via satellite virtually anywhere in Europe.

Lessons Learned

Creating an innovative and collaborative partnership encourages IDC to stay at the competitive edge of advanced digital cinema technology for the long term. At the same time, DSAT Cinema can expand on a high quality network using IDC solutions they already know and trust. Together these two leaders in the digital cinema satellite industry can stay focused on bringing leading end-to-end solutions anywhere in Europe, while incurring minimal risk.

"Missed DCPs and live events are costly. Deployment of a professional solution ensures that the network availability is predictable and maximized – this ensures customer satisfaction and repeat business," said Walter Capitani, IDC's VP of Marketing.

"...Missed DCPs (movies) and live events are costly. Deployment of a professional solution ensures that the network availability is predictable and maximized..."

—Walter Capitani, VP-Marketing, IDC

"The ability to deploy a single device that provides both DCP and live event delivery to cinemas simplified DSAT's operations, and provided the lowest possible cost solution such that the network expansion can proceed as quickly as possible. This is necessary to gain the efficiencies of satellite delivery that occur when serving a large number of sites," Capitani added.

"Our long term relationship with DSAT Cinema is the kind of partnership we like to have with our customers," said Doug Lowther, CEO of IDC. "This alliance also supports our plans to continue developing and enhancing IDC's advanced digital cinema content distribution technology."

"We believe a mutually strong partnership with IDC plays a critical role in the success of our expansion plans to bring smart, cost-effective solutions to cinemas via satellite, virtually anywhere in Europe," said Fabrice Testa, CEO of DSAT Cinema.



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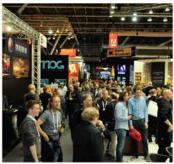
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AVL's new 1.8 vehiclemount antenna

tions, high reliability and cost-effective "go-to" solutions for mobile accessibility with High Throughput Satellites.

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C-COM Satellite Systems Inc. booth SU 10817

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Cobham SATCOM Land booth OE 1100 www.cobham.com/satcom

Cobham SATCOM is an official launch partner for Inmarsat Global Xpress® (GX), and several EXPLORER products are being developed specifically for operation on the GX network. Products include the EXPLORER 3075GX, which is a 0.75m Electronic Assisted Manual Point Fly-Away terminal; the EXPLORER 5075GX

0.75m Auto-Acquire Fly-Away terminal; and the EXPLORER 7100GX 1.0m Auto-Acquire Drive-Away terminal.



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Comtech Xicom Technology booth SU 4721

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comtech Xicom Technology provides a broad product line of KPAs, TWTAs, SSPAs and BUCs for worldwide satellite

uplink covering C-, X-, Ku-, DBS-, Ka-, Q-band, Tri- and Multiband with power levels from 8 to 3,550 watts and available in rack-mount and antenna-mount ODU packages. Xicom is showcasing a number of products including many of the new "Green Powered By Xicom Technology" designed am-

plifiers focusing on user cost savings including lower power consumption, reduced fuel and charging requirements.



Xicom representatives will be available

for SATCOM providers and developers to discuss and obtain technical information on these and many additional amplifier products at the Comtech Xicom Technology booth.

Globecast booth SU 2706 www.globecast.com

Globecast is a leading-edge content processing and distribution company. Globecast uses the best of satellite, Con-



tent Distribution Networks, dedicated fiber and public Internet to make sure that broadcasters' and media companies' content is where it should be when it should be, cor-

rectly packaged and formatted. Globecast provides tailored solutions for content providers of all shapes and sizes, creating the technical foundations that power monetization. The company provides multiplatform, multi-device services using its years of experience and business acumen to create the perfect packages for its customers.

At the NAB, Globecast will be showcasing the following services:

OTT managed services: The latest innovations to Globecast's end-to-end managed services for complete OTT content delivery will be on show at NAB. From content preparation to delivery, Globecast offers end-to-end solutions such as OTT Live, Live to VoD and VoD - including monetization tools - to help broadcasters maximise their content. The company's service proposition removes the technical complexities associated with providing content to multiple plat-

forms, in multiple formats, across multiple territories with associated rights issues from the broadcaster.

Globecast playout solutions: Through a unique combination of global resources, cutting-edge facilities, and expert staff on five continents, Globecast delivers scalable playout solutions that align with broadcasters' strategy and budget. Globecast technical centres in London, Singapore and Miami offer a wide range of tailored broadcast management services - such as global media logistics, content management and regionalisation of content — which broadcasters can take advantage of wherever they are in the world.

Globecast XN: Globecast XN is one of a suite of solutions the company offers to its broadcast clients, via which content can be quickly and easily delivered to new markets and audiences around the globe. Using the public Internet, this cost-effective solution can be quickly deployed in a short timeframe to: deliver live channels to IPTV and OTT platforms; allow content providers to expand into new markets while limiting risk; reduce backup link costs significantly; bring feeds from event sites to broadcasters; or to quickly set up a last-mile solution where dedicated fibre is not available.

Globecomm Systems booth SU 6221 www.globecomm.com



At the NAB, Globecomm will be highlighting its Access Connectivity Services.

When you are looking for connectivity, you need global reach, high quality and the ability to delivery data, video and voice anywhere under almost any conditions. To meet that need, Globecomm Global Network which consist of satellite and fiber connectivity, offers a wide range of services for voice, data, Internet and video that leverage our global transmission capacity and our network of data center, content management and switching facilities. Globecomm's Access services include:

Access Plus, a suite of transmission and network services for secure IP connectivity, VOIP and data communications worldwide

Access Maritime which offers ship owners, ship managers, officers and crew a single, powerful, cost-effective platform for communications worldwide.

Access Video, a complete video transmission solution supporting live broadcast-quality video contribution and distribution as well as file distribution and videoconferencing.

Hispasat/ Hispamar Satélites booth SU 9821 www.hispasat.es





an extensive range of satellite communication services including IP, Broadcast, Corporate, Telecom, Government, Distance Learning, Telemedicine and Digital Signage.

Amazonas 1 and Amazonas 2 are two of the biggest and most powerful satellites serving the American Continent and operate collocated at 61° W offering both C- and Kuband capacity, with immediate availability of high quality Kuband capacity for North America. Last year it launched the Amazonas-3 satellite which includes nine Ka-Band spot beams—the first Ka-Band capacity made available for the Latin American market. It's most recent addition to its fleet is the Amazonas 4a satellite just launched last month.

Narda Test Solutions go to A.G.Franz, LLC booth SU 10404 www.agfranz.com/narda-satellite/

Narda Test Solutions designs and manufactures highly sensitive signal analyzers for RF interference detection and monitoring (rack-mountable and portable).



Narda Remote Spectrum Analyzer NRA

At the NAB Show Narda's North American distributor A.G. Franz, LLC will be showcasing the **Narda Remote Spectrum Analyzer NRA 6000**. The NRA is a 1RU rack mountable, high speed (12 GHz/sec), low-power fan-less test-equipment that can be easily integrated and remotely controlled in various monitoring systems. The wide bandwidth (9kHz-6GHz) of the NRA-6000 enables the operator to simultaneously monitor a variety of signals with up to 600,000 samples per sweep.

The NRA-3000 model (9kHz-3GHz) is optimized for satellite signal interference monitoring and troubleshooting. The optional high-speed I/Q data streaming capability is ideally suited for signal identification and characterization.

ND SatCom booth OE 304 www.ndsatcom.com

With three decades of experience, ND SatCom has become

the premier supplier of innovative satcom systems to support customers with critical operations anywhere in the world.

At the NAB, ND SatCom will be highlighting its new SKYWAN 5G product. The SKYWAN modem family is a reliable, flexi-

ble and versatile satellite communication platform for customer centric networks. It is a bidirectional



MF-TDMA plus DVB system that supports voice, video and data applications in the most bandwidth efficient manner.

The new SKYWAN 5G unlocks new business opportunities for service providers. Total cost of ownership is significantly reduced thanks to the fact that only one type of device is needed for all roles in the network. This saves costs in terms of logistics, certifications, network configuration and maintenance. SKYWAN 5G enables star, mesh, multi-star or hybrid topologies with Communications-on-the-move (COTM) support. Each unit can act either as a hub or master station, therefore adding agility in terms of its network role.

Measuring in at only 1 RU the SKYWAN 5G is the smallest hub device on the market.

Newtec booth SU 3421 www.newtec.eu

Newtec will be showcasing at the NAB its new Dialog plat-

form. Dialog is a new scalable, flexible and bandwidth efficient multiservice platform allowing operators to build and adapt their infrastructure easily as their business and the satellite market grows and changes. Newtec Dialog gives operators the power to offer a variety of service on a single platform while assuring the most optimal modulation form consists of hub(s) and and bandwidth allocation. In terminals. The Newtec Diaaddition to supporting SCPC or MF-TDMA, it now includes ured in different sizes to fit a third revolutionary patented the needs of customers. return link technology called Mx-DMA™. Together with the new HighResCoding™, it com-



The Newtec Dialog® platlog Hubs are modular and scalable and can be config-This picture shows the 1IF HUB6501 and **HUB6504 4IF Hub Modules.**

bines the best of both worlds and enables services to run more efficiently than ever before over satellite.

Peak Communications booth SU 6224 and A.G. Franz LLC booth # SU 10404 www.peakcom.co.uk

Peak Communications manufactures professional RF equipment for Satellite earth stations: Block, fixed and agile (synthesized) frequency converters, test-loop translators, beacon receivers, automatic uplink power control units, line amplifiers, modular gain control units, splitters & combiners, DC & 10MHz drivers for BUC/BDC/LNB units, 10MHz reference generation & distribution, distribution switching and noise sources.



Peak Blockconverter DBUH200 platform

Many of the products are available in multi-channel configurations, allowing the simultaneous conversion or signal conditioning of the same frequency range.

The equipment is provided in three physical configurations: remote, weatherproof units for a compact outdoor solution; ½ rack, modular, hot-swappable units to offer the ultimate in maintainability; fixed dual, triple or quad-bands/ ranges in 1RU chassis for a compact indoor solution.

At the NAB Show Peak will be showcasing the modular, hotswappable Blockconverter DBUH200 platform. The compact 1RU rack-mounted unit is designed to accept any combination of available converter modules (C-, X-, Ku-, DBSand Ka-Band) and offers a full 1+1 redundant system. It can also be configured to provide separate BUC/BDC channels, test-loop translators and line-amplifiers.

ScheduALL booth SU 3021 www.scheduall.com

ScheduALL, the leading global provider of Enterprise Resource Management (ERM) software for media and trans-



mission, will showcase its booking platform, ScheduALL Connector™ at the 2014 NAB Show. The smart technolgives customers of

ogy behind ScheduALL Connector™

transmission providers the tools to book their own bandwidth.

ScheduALL Connector™ is a direct link for the Occasional Use (OU) business to its customers. The booking platform takes error-prone manual processes, duplicate efforts and conflicts out of the booking procedure. Furthermore, the tool provides a centralized view of a global resource network for both the provider and the customer, increasing revenue through maximized utilization.

"Connector is going to turn a lot of heads at NAB," said Rick Legow, president at ScheduALL. "We are giving our clients the capability to connect directly with their customers for instant access to resource booking. It vastly improves the way our clients do business with their customers."

A unique benefit of ScheduALL Connector™ is its potential to boost global sharing, trading and selling across the media and broadcast industry, and even create new partnerships within it. ScheduALL has built trusted partnerships for twenty-five years, and Connector unifies these companies in a global network.

To schedule a demonstration and learn how ScheduALL's industry-changing smart technology can meet the unique challenges of your organization, please call (954) 334-5400 <a href="mailto:email

Work Microwave booth no. SU 8525 www.work-microwave.de

Exhibiting for the first time at the NAB, **WORK Microwave** will demonstrate significant enhancements to its DVB-S2 Broadcast Modulator, Video ACM System, and Fifth-Generation Frequency Converter Series. Leveraging the new improvements, operators can optimize satellite bandwidth, improve signal quality, and reduce operating expenses.

The DVB-S2 Broadcast Modulator's most recent improvement — carrier ID support — defines the modulation, channel coding, and signaling protocol intended for the identification of the host carrier. This allows operators to eliminate or reduce radio frequency interference between satellite signals to deliver a higher quality of service to customers.

A key highlight at the NAB will be WORK Microwave's Video ACM System, an integrated data/video (DaVid) modem and encoding solution for enhanced video contribution. Combining WORK Microwave's DVB-S2 Modem SK-DV and the EN-91 MPEG-4 HD ultra-low delay encoder from Adtec Digital, Video ACM automatically improves an operator's satellite link budget, enhancing video quality and reducing op-

erational expenses.

The Video ACM solution can transport multiple MPEG transport streams — up to six — and IP data into a DVB-S2

multistream, enabling simultaneous transportation of data



(network connection) and live broadcasting (video content) over a single satellite carrier. Multichannel ACM functionality dramatically reduces the margin traditionally required for rain fade, enhancing video quality. Satellite link performance is optimized in real time as link and weather conditions change, resulting in increased link availability and cost savings for satellite operators. Transport stream null packet deletion and re-insertion further optimize satellite capacity, enabling operators to reuse bandwidth for IP data. As the MODCOD changes, WORK Microwave's DVB-S2 Modem SK-DV seamlessly communicates with Adtec Digital's EN-91 encoder and automatically changes the video rate, ensuring the best possible video quality and optimum bandwidth allocation.

Walton De-Ice booth no. OE 812 www.de-ice.com

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.

Walton De-ice offers several options for heating including, gas heaters with their economical operation advantages or the low maintenance Stainless Steel Electric Heaters.



At the NAB, Walton will be introducing its new lower-cost Snow Shield Antenna Covers Walton's **Snow Shield** antenna covers keep snow and ice off your dishes, with these new advantages:

- Now with two new fabric cover and coating options.
- Up to 5X useful life of competing products!
- No warm weather removal downtime stays on year-round unlike others!
- Works as Passive system, or with Electric or Gas Heater
 De-Icing .

EXPLORER PRODUCTS

COBHAM

Global, Mobile Satellite Communication Solutions

The most important thing we build is trust

Cobham SATCOM offers the most comprehensive range of land-mobile satellite communication terminals in the market covering both BGAN and VSAT.

The EXPLORER range of terminals fulfills critical communications needs and reduce system configuration requirements for end users through highly reliable and easy-to-use solutions.

The EXPLORER 5075GX will provide Inmarsat's upcoming Global Xpress® superfast Ka-band service, delivering download speeds of up to 50 Mbps and 5 Mbps over the uplink. The EXPLORER 710 is the first BGAN terminal to deliver Inmarsat's High Data Rate on-demand streaming IP service.

Visit us at NAB, booth OE1100 in the outside area.



EXPLORER 5075GX

Ultra High-Speed VSAT Terminal

- Lightweight 0.75m Auto-Deploy Fly-Away VSAT with a four-piece carbon fiber reflector
- Configured for seamless global operation on the new Inmarsat Global Xpress[®] (GX) Ka-band network
- User-friendly design allows operators with little satellite experience to access GX Ka-band services within minutes

EXPLORER 710

Ultra-Portable BGAN Terminal

- The first and only BGAN terminal to support BGAN HDR providing a minimum throughput of 580kbps
- From backpack to live broadcast in only a few minutes enhancing the quality of mobile outside broadcasting
- Connectivity made simple using your Smart Phone or tablet PC to control the terminal



For more information on Cobham SATCOM:

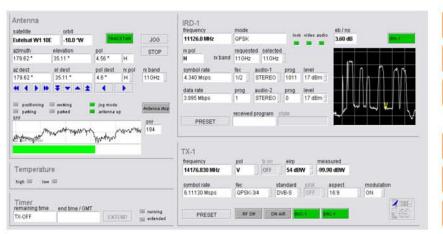
Call SATCOM Land VSAT (Orlando, USA) office: +1 (407) 650 9054 Call SATCOM Land BGAN (Lyngby, Denmark) office: +45 39 55 88 00

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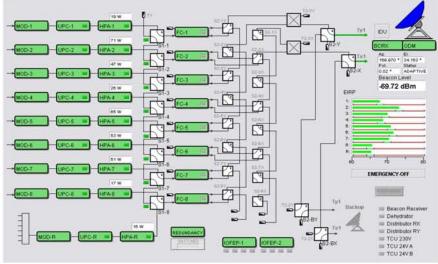
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✓ YES to smart work flows

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Kudelski Group to Acquire Conax AS

Cheseaux-sur-Lausanne, Switzerland, March 26, 2014 - The "We are very pleased to welcome the Conax team to the CHF 200 million (approximately US\$ 226 million). Headquartered in Oslo, Conax is a provider of content protection for

digital TV services over broadcast. broadband and connected devices.



cable, satellite, IP, mo-

bile and terrestrial operators with flexible and cost-effective solutions for the secure delivery of premium content, intego™, which offers content protection across multiple consumer devices and operator platforms.

Kudelski Group has signed a definitive agreement to acquire Kudelski Group," said André Kudelski, Chairman and Chief Conax AS from Telenor Broadcast Holding for approximately Executive Officer of the Kudelski Group. "Their geographic



footprint and solution portfolio are complementary to Nagra. With this acquisition, we further expand our customer portfolio in Asia, Latin America, Eastern Europe and Scandinavia."

Conax's customer base will benefit from the Kudelski Group's broad portfolio of products, including its

cluding its latest generation security platform, Conax Con- next-generation OpenTV5 middleware, multiscreen/OTT solutions and SmarDTV's advanced conditional access modules, according to a company statement.

Vislink Completes Acquisition of Pebble Beach Systems

London, UK, March 19, 2014--Vislink are on normal commercial terms. plc has completed the acquisition of Pebble Beach Systems for a total con- Founded in 2000, and employing over 60 countries. sideration £14.9 (approximately US\$ 24.8 million), com- veloper and supplier of automation, The acquisition of Pebble Beach Sysprising £12.9 million payable in cash 'channel in a box' and content manage- tems will move Vislink into the proviand £2.0 million represented by the ment solutions for TV broadcasters, sion of software solutions for playout issue of 4,700,904 new Vislink ordinary cable and satellite shares at a price of 42.545 pence per operators. The busi-

share, being the average midmarket

closing price of Vislink's shares for the ness is headquarlast 25 business days before, but not tered in Weybridge, including, the day of completion.

Pebble Beach Systems has been purchased with in excess of £5.9 million cash on the balance sheet, resulting in an effective net consideration of £9.0 million.

The cash consideration will be funded out of existing Group resources and a new £10.0 million debt facility. The split into a £3.0 million amortising term HD, loan and a £7.0 million flexible revolv- sion. Clients include TV Globo Brazil, fices, the statement added. ing credit facility. The Facility charges MBC UAE, Fox News, KCET USA, Bande-

million 60 staff, Pebble Beach Systems is a de-

Surrey with offices

in the USA, Dubai and Singapore.

Pebble Beach Systems has developed a portfolio of software products, which have the flexibility to support a wide range of broadcast applications. Its automation products are suitable for multichannel playout as well as high pressure live programming environments such as news or sports, whilst

raintes Brazil, OSN UAE, Viasat UK and ZDF Germany, with installations in over

with advanced software technology, according to the company.

The company's existing capabilities of offering broadcasters wireless communication tems for the capture of live TV coverage of

news, entertainment and sports events will now be complemented with world class television automation and media management services for broadcast studios. Vislink will now be able to offer broadcasters a complete 'scene to screen' solution. Furthermore Pebble Beach Systems will gain from access to significantly increased sales channels through the global network of over 900 Facility has a three year tenor and is supporting new technologies such as broadcasters that Vislink works with as IPTV and interactive televi- well as its international network of of-



Satellite Executive Briefing

Harris Broadcast Splits into Imagine Communications and GatesAir

Broadcast has announced plans to split supply chain and fulfilment centre in nications and GatesAir with today's into two, under the new brands of Quincy, Illinois. GatesAir has been sup-transformational trends, the networks Communications

GatesAir. Imagine Communications will be headquartered in Dallas, with Centers of Excellence in Denver, Toronto, Los Angeles, Tel Aviv and Beijing. Harris Broadcast made the announcement at its

inaugural MediaDay held at Madison Square Garden in New York City.

folio of patents.



COMMUNICATIONS

imagine™ GATES/

mission inno-

The company's five decades of media vation for nearly 100 years.

ers spanning 185 countries, with more Imagine Communications and GatesAir than three million products deployed are well positioned to serve our industhat support over half of the world's try and customers," said Charlie Vogt, video channels, along with a rich port- CEO of Imagine Communications and GatesAir.

GatesAir will be headquartered in Cin- "Our vision, product direction and globe," Vogt added.

software and networking innovation

New York City, March 18, 2014--Harris cinnati, Ohio, with its manufacturing, strategy further align Imagine Commuand plying over-the-air TV and radio trans- of the future and our customers and partners," said Vogt.

> "We have created two laser-focused companies that are innovating across different ends of the technology spec-

> > trum. Imagine Communications will lead the media and entertainment markets to a future defined by IP, software, the cloud, and TV everywhere, with an architec-

ture vision for delivering and monetising multiscreen content. Likewise, has secured more than 3,000 custom- "With vibrant new identities and focus, GatesAir will continue to lead the nextgeneration TV and radio over-the-air market, with a focus on providing wireless innovations that reduce power consumption and carbon footprint, while leveraging the growth in digital radio and TV transmission across the

Organised by **Global Space Applications Conference** 2 - 4 June 2014 UNESCO Headquarters, Paris With the support of. GROUP ON EARTH OBSERVATIONS

he conference provides an excellent opportunity to explore cutting-edge satellite-based applications from a holistic viewpoint. A comprehensive technical programme is complemented by high-level round-tables with heads of industry, space agencies and government institutions.

This mixture of industry, agencies and academic specialists will ensure a lively and innovative analysis of different space-based services. The range of topics being addressed includes remote sensing, mobile telecommunication and positioning, legal and regulatory aspects, and services in support of disaster management.

Alongside the 15 technical sessions and poster displays, there are 4 plenary sessions planned, featuring high-level panel discussions: These will include a session gathering heads of space-based services companies to discuss their challenging market. There is also a session dedicated to understanding and monitoring climate change, and one looking at the role of governmental agencies in the development and validation of space-based services and applications.

Don't miss out - Registration details at www.glac2014.org

Fox International Channels' Jesus Perezagua Steps Down

Los Angeles, Calif., March 24, 2014--Fox International Channels (FIC) President for Europe and Africa Jesus Perezagua will be stepping down effective April 30. He will consult for companies in the group after that date.Hernan Lopez, president and CEO said that a search will begin immediately for a successor.

Perezagua first joined the company in 2003 as managing director of FIC Spain and Portugal. In 2005 he was tasked with directing the company's expansion across Eastern and Central Europe, Turkey and Greece. He was named president of Europe and Africa in 2011. FIC, a unit of 21st Century Fox, which operates some 324 branded channels reaching a total of more than 1.6 billion subscribers worldwide.

Perezagua began his career at FIC in 2003, joining the group as managing

director of FIC Spain and Portugal. From 2005, he headed up the company's expansion across Eastern and Central Europe



Jesus Perezagua

as well as Greece and Turkey before taking over for the entire European and African operations in 2011.

SSPI Names Dianne VanBeber of Intelsat as Chair and Chris Stott of Mansat as President

New York City, March 10, 2014 - The Society of Satellite Professionals International (SSPI) announced the appointment of Dianne Van Beber, Vice President, Investor Relations and Communications for Intelsat, as Chair of the Board, and of Chris Stott, Chairman & CEO of Mansat, as President.

Elected to their first terms on the

Board of Directors are **Ed Giovannini**, Vice President, Programmer Sales, Ericsson; **Erwin Hudson**, Chief Technology Officer, Wildblue; **Dave Rehbehn**, Senior Marketing Director, Hughes Network Systems; and **Alan Young**, Chief Technology Officer, Encompass Digital

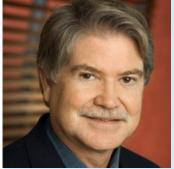
SSPI also announced two directors reelected by the membership. **Mike Aloisi**, Vice President, Distribution Technology, Satellite & Affiliate Services for Viacom, and **Tony Rayner**, Senior Vice President, Business Development for Eutelsat were re-elected to their second terms on the SSPI Board of Directors. Tony Rayner will be serving as the Secretary.

SSPI's Board represents a cross-section of the commercial satellite business, from manufacturing to launch to services, and from one side of the globe to the other.

Continuing their service on the Board of Directors are:

Discovery Communications Founder John Hendricks to Retire

Silver Spring, MD, March 20, 2014- **Discovery Communications'** founder John Hendricks will retire as Chairman of the company's Board of Directors and as a Director of the Board. He will remain in his current position through the annual meeting of shareholders on May 16, 2014.



"Few words can appropriately convey what kind of person John is, or what he has meant to this company and the cable television industry overall. He is a true visionary, a man of enormous integrity and one of the world's great entrepreneurs. On behalf of the 5,600 employees of Discovery Communications, I want to thank John for all that he has done, and all that he has stood for, as Founder and Chairman of Discovery for more than 30 years, and believing the world needed a different kind of media company – a purpose-driven media company," said David Zaslav, President and CEO of Discovery Communications.

Hendricks has served as Chairman and Founder of Discovery Communications, preceding and including the launch of the Discovery Channel on June 17, 1985. He stepped down as CEO in 2004 and remained Chairman of the Board. Hendricks created Discovery Channel as

the first cable network in the United States to provide high-quality documentary programming enabling people to explore their world and satisfy their curiosity. Hendricks pioneered the launch of digital networks in the United States in the 1990s and launched the first 24/7 basic cable HD channel, Discovery HD Theater, in 2002. He has been honored with a Primetime Emmy Award and with the Academy of Television Arts & Sciences highest honor, the Governor's Award, for conceiving the TLC series, *Great Books*. The Ark Trust named him a recipient of the Genesis Award for lifetime achievement for his efforts in raising awareness around the globe about animal issues. Hendricks also has been recognized as the first corporate leader to receive the National Education Association's Friend of Education award for innovations in education and technology and greatly expanding educational opportunity for America's schoolchildren.

Satellite Executive Briefing

- Dawn Harms, Vice President, Sales, Marketing and Communications, International Launch Services (Treasurer);
- Tom de Baere, Director of Marketing, Newtec:
- Didier Debellemanière, President, Abyvia;
- Erhenbard, Director, Christine Broadcast Distribution, CBS.

EchoStar Satellite Services Names NASA Veteran as VP. **Spacecraft Operations and** Engineering

Englewood, Colo., Mar. 11, 2014 -- The from January former NASA Flight Director Jerry Jason has joined EchoStar Satellite Services, L.L.C. (ESS), a wholly-owned subsidiary of EchoStar Corp., as vice president, spacecraft operations and engineering.

"Jerry brings a wealth of spacecraft operations experience to EchoStar," said de Bastos. "His expertise will be instrumental in



Jerry Jason

strengthening and growing our operations organization as we continue to expand the EchoStar fleet."

Jason joins ESS from the NASA Johnson Space Center, where he served 18 years in the Mission Operations Directorate. During his tenure, he was a flight controller for more than 30 Space Shuttle missions and, for the past 6 years, was a flight director for the International Space Station (ISS). As flight director, Jason was one of the few select individuals responsible for realtime operations of the ISS and successfully completed the ISS Expedition 23/24 missions and two automated transfer vehicle (ATV) resupply missions.

Gen. Kehler Appointed to Inmarsat Board

London, UK, March 20, 2014 - Inmarsat announced that General C. Robert Kehler, United States Air Force (Retired) will join the Board on May 6, 2014 as an additional non-executive director. General Kehler retired from the Air Force in January 2014 with over 38 years of service.

Prior to his retirement, General Kehler Blake has more than 25 years of execu-

Commander. U.S. Strategic Command 2011 to November 2013. In that position he was directly responsible to the President and Secretary of Defense for



Gen. Kehler

the plans and operations of all U.S. forces conducting strategic deterrence, and Department of Defense space and cyberspace operations. Prior to that cost-effective assignment, he served as Commander, Air Force Space Command from October 2007 to January 2011.

As commander of Air Force Space Command, General Kehler was responsible for the development, acquisition and operation of the Air Force's space and missile systems. He oversaw a global network of satellite command and control, communications, missile warning and launch facilities, and ensured the combat readiness of America's intercontinental ballistic missile force.

Over his career, General Kehler served in a variety of important operational and staff assignments, and successfully led large organizations with global responsibilities.

General Kehler will also become a the pipeline through 2015.

member of Inmarsat's Remuneration Committee.

Spaceflight Inc. Promotes **Curt Blake to President**

Seattle, Wash., March 6, 2014--Launch services provide Spaceflight Inc. has promoted Curt Blake as its new President. Blake, previously served as Senior Vice President and General Counsel.

tive experience in high-growth and tech industries, with past experience including a range of senior executive and general counsel roles at Microsoft, Starwave, Corbis and Aldus.

Spaceflight helps organizations launch small satellites into space by offering a "one-stop-shop" service that manifests, certifies and integrates multiple auxiliary payloads onto a single launch vehi-

cle. Spaceflight contracts excess capacity on its worldwide network of partner launch vehicles. thereby enabling launch services for small-satellite customers while secur-



Curt Blake

ing additional revenue for the launch service provider.

In the last three years, Blake oversaw Spaceflight's first four commercial rideshare launches, on the Antares, Soyuz and Dnepr vehicles, from sales to mission management to launch. Blake is a current member of the Commercial Spaceflight Federation Board and contributor to numerous small-satellite conferences.

Spaceflight specializes in the launch of CubeSats, nanosats and microsats with masses between 1 kg and 300 kg. Since 2011, Spaceflight has launched more than 36 satellites with more than 50 in



WERE

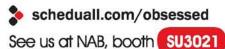
OBSESSED

ecosional use bookings

so you don't have to be

We'll schedule your available capacity, so you can focus on the rest.







Belcher Appointed to Signalhorn Board

Luxembourg, March 4, 2014 - Veteran aerospace and defense executive John Belcher has been named to the Board of Directors of Signalhorn, a global provider of premium network and communications services using terrestrial, satellite, and wireless technologies.

Belcher is the former Chairman and CEO of ARINC, an Annapolis, MD-based

provider of transport communications systems and engineering solutions to aviation, defense and government customers. He has more than 30 years of experience in the avia-



John Belcher

tion, aerospace, airports, information technology, network services and defense industries.

Belcher's previous executive positions include President and CEO of Hughes Aircraft of Canada, Ltd.; Vice President of Hughes Aircraft Company; President and CEO of Thompson-Hickling Aviation; Senior Vice President of SPAR/ PRIOR Data Sciences; Executive Director of Transport Canada; and Director General of Supply and Services Canada. He has also served as Chairman of the Canadian Advanced Technology Association; on the President's Advisory Board at the University of Waterloo; and on the Board of Directors for numerous trade associations and aerospace technology companies.

From 2002 until January 2014, when ARINC was sold to Rockwell Collins, Mr. Belcher led the company with 3,200 employees and global operations. During that period, he received the Maryland International Business Leadership Award and was named Business Leader of the Year for Annapolis and Anne investment fund. The Carlyle Group Arundel County.

Carlyle Group, a Washington, DC-based excellence.

named Mr. Belcher the 2013 recipient of its Louis V. Gerstner, Jr. Excellence Until 2013, ARINC was owned by The award for leadership and management

Calendar of Events

April 1-3, 2014, Space Tech Expo, Long Beach, Calif. Phone: US & Canada toll free +1 877 842 6289, Europe: +44 1306 871331,

E-mail: info@spacetechexpo.com Web: www.spacetechexpo.com

April 5-14, 2014 (Conferences) April 7-10, 2014 (Exhibits), NAB 2014, Las Vegas Convention Center, Las Vegas, Nevada, USA,

E-mail:info@nab.org Web:www.nabshow.com

April 29-30, 2014, VSAT Latin America 2014, Sao Paulo, Brazil, contact: phone +44 (0)207 017 7707 Web: www.latinamerica.vsatevent.com/

June 2-4 2014, Global Space Applications Conference (GLAC) 2014, UNESCO HQ, Phone: +33 (0)1 45 67 68 46 Paris, France.

E-mail: Glac2014@iafastro.org Web: www.glac2014.org

June 4-5, 2014, LATSAT 2014, Mexico City, contact: Lorraine Whitfield,

Tél: +33 1 49 23 75 13 E-mail: whitfiled@euroconsult-ec.com

Web: www.latsat-congreso.com/en/

June 16, 2014, CASBAA Satellite Industry Forum 2014, Shangri-La Hotel,

Singapore, Contact: Cherry Wong, phone +852 3929 1714,

E-mail: cherry@casbaa.com, web: www.casbaa.com

June 17-20, 2014, CommunicAsia 2014, Marina Bay Sands, Singapore.

E-mail: CommunicAsia@sesallworld.com, Tel: +65 6233 6638,

Web: www.CommunicAsia.com

June 17-20, 2014, BroadcastAsia 2014 Marina Bay Sands, Singapore

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April 2014

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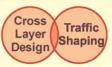
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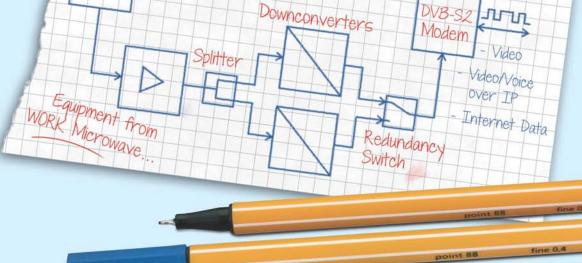












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Content Management and Distribution Services Reach US\$ 192 Billion

Paris, France, March 25, 2014- According to Euroconsult's newly released research report, Video Content Management and Distribution, the global TV and video market is up US\$ 31 billion since 2008 and is currently estimated at US\$ 192 billion, with the production sector capturing the majority of revenues.

The Content Management Distribution (CMD) market is still dependent on the distribution of linear TV channels, representing 30,000 satellite TV signals and 23,000 unique TV providers..." channels in 2013. Nevertheless, non-linear content growth continues to accelerate, including over-the-top content (OTT) and mobile video, impacting service revenues while largely favored by occasional use services with smaller, prompting specialized CMD provid-

ers to expand their service offering.

"The emergence of non-linear will lead to the diversification of revenue trends which is a positive change in the industry. We should continue to see more satellite operators with terrestrial segments shifting their business strategy to adapt to consumer needs and leading service providers acquiring nonlinear service providers," said Marc Welinski, Euroconsult's Deputy Director of Broadcast & Broadband and a contributor to the research report.

Image courtesy of IBM

Growth in linear channels is led by emerging digital markets including the Latin America, Asia, CER and MEA regions which accounted for 80% of new channel launches since 2008. Main drivers in these regions include: the launch of dozens of DTH platforms, the introduction of new digital terrestrial services, the growing availability of HD content and the increasing localization of content.

"In mature TV markets, it is clear that growth in linear channels is largely driven by HD," said Dimitri Buchs, Consultant at Euroconsult and Editor-in-Chief of the report. "We expect to see over 11,000 HD signals by 2023. HD is a significant market driver compared to Ultra-HD which is forecasted to produce less than 500 channels over the decade."

CMD revenues for video contribution services reached US\$5 port.

"...The emergence of non-linear will lead to the diversification of revenue trends which is a positive change in the industry. We should continue to see more satellite operators with terrestrial segments shifting their business strategy to adapt to consumer needs and leading service providers acquiring non-linear service

billion in 2013, up from US\$ 3 billion in 2008. Growth was

lighter and more easy to use terminals (MSS and 3G/4G) accounting for a growing share of terminals, traffic and revenues. Satellite will remain essential for permanent contribution activities, yet its market share should decrease to the advantage of fiber. In the occasional use market, the share of satellite should also decrease to the advantage of 3G/4G services. Satellite revenues should be driven by lower-priced HTS Ka-band services with the share of HTS Ka-band in total occasional use revenues expected to grow from less than 0.5% in 2013 to 18% in 2023.

Revenues from outsourced CMD services reached \$3.5 billion in 2013 with Western Europe leading in revenues, ahead of Asia. CMD services are offered by specialized service providers, teleport operators, satellite operators and telecom operators. Globecast, Arqiva, Encompass and RRSat are the market leader, maintaining 35% of the outsourced market in 2012.

Video Content Management and Distribution is designed specifically for service providers, satellite operators, and equipment manufacturers focusing on growing new/existing business in the broadcast sector. The report includes an extensive analysis of the global video content market, as well as the main drivers and dynamics for video contribution and distribution. Profiles of leading service providers and popular OTT case studies are included within the re-





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North America to add 5 Mil. Pay TV Subscribers

London, UK, March 20, 2014--Despite all of the talk about 2020 to 116.6 million. Subscriber numbers fell slightly in cord-cutting, a new report from Digital TV Research forecasts that the number of pay TV subscribers in North America will continue to increase - despite a small Simon Murray, Principal Analyst at Digital TV Research, said: decline in 2013. The Digital TV North America report estimates that nearly 5 million more subscribers will be added between 2013 and 2020. However, pay TV penetration will drop from 87.0% in 2010 to 83.8% by 2020.

Most of the pay TV subscriber losses over the last few years have been analog cable subs. There were still 18.39 million analog cable subscribers by end-2010, a number that will fall to 3.75 million by end-2014.

Digital TV penetration reached 94.2% at end-2013, and will Satellite TV will overtake cable to become the largest pay TV added between 2013 and 2020, 5.5 million will come from 2020 - to \$42.8 billion. cable, 5.9 million from IPTV, 4.6 million from DTT and 0.9 million from satellite TV.

scribers will climb by nearly 5 million between 2013 and -2013 and 53.1% in 2010.

2013.

"Pay TV revenues [subscriptions and on-demand] in North America peaked in 2013 at \$95.36 billion. We forecast that they will fall by \$8.75 billion to \$86.61 billion in 2020. As the analog cable networks switch off, all pay TV operators will try to outdo each other on promotions, with pricing becoming a more and more important tool." TV ARPU is being forced down as cable operators and telcos convert their subscribers to double-play or triple-play bundles, although blended [overall] ARPU is rising.

increase to 100% by 2017 - the only remaining analog platform revenue generator in 2015. However, satellite TV homes take cable. Of the 17 million digital homes to be revenues will climb by only \$1.2 billion between 2013 and

There will be 60.4 million cable homes (all digital) by 2020, down from 62.4 million in 2013 (of which 7.6 million were Pay TV penetration has peaked in Canada and the US. De- analog) and 68.2 million in 2010 (18.4 million analog). Cable spite falling pay TVpenetration, the number of pay TV sub- penetration will be 43.4% by 2020, down from 48.1% at end



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Boom Times for HD TV Channels in the Arab World

Amman, Jordan, March 19, 2014--A new report from Arab "... The number of HD channels Advisors Group overviews the High Definition TV channels landscape in the Arab world. The report covers the four satellite providers that target the Arab World: Arabsat, Nilesat, Yahlive, and Noorsat, and the number of HD channels broadcast on each satellite. In the report, Arab Advisors Group provides a comparison between the satellites, and a projection of the number of satellite TV channels serving the Arab World.

covered by the four main satellites was 87 channels in 2012, 103 channels by April 2013, and it increased by 31 channels to reach 134 HD channels by February 2014..."

As of February 2014, the satellites covering the Arab World offered 134 HD channels up from 103 HD channels by April 2013. The number of HD channels constituted around 11% of the total number of satellite channels aired on the four main satellites covering the region.

search Analyst wrote in the report. "The number of HD channels covered by the four main satellites was 87 channels in 2012, 103 channels by April 2013, and it increased by 31 channels to reach 134 HD channels by February 2014" Ms. Asmar added.

"HDTV in the Arab

to the Arab Advisors Group's Media Strategic Research Service subscribers on March 11, 2014. This report can be purchased from the Arab Advisors Group for only **US\$ 950**. The **14-page** report, which has 8 detailed exhibits, provides a comprehensive analysis of the HD channels in the Arab world, their presence

World" was released Arabic TV & Radio Channels Copyright = 2007 Video Arab (www.video arab.com) Arabic TV & Radio Channels Full Screen

on satellites covering the region, and a description of HDTV technology's features.

Any investment in this report will count towards attending Arab Advisors' 11th Convergence Summit on June 2 & 3, 2014 at the Four Seasons Hotel in Amman. Telecom and Media operators can send up to 2 delegates to attend at no charge. More information on the summit can be viewed on http://www.arabadvisors.com/Convergence/index.htm

"TV has not only improved in terms of colors, images, video and audio quality, and reception, but also became a more interactive experience with the High Definition TV technology, where the number of HD TV channels have grown by 30% from April 2013" Ms. Noor Asmar, Arab Advisors' ReBy end of 2017, Arab Advisors Group projects the Arab World's Satellite Pay TV subscriptions to increase to 19 million with total market revenues reaching US\$ 2.5 billion.

As of February 2014, five Satellite Pay TV providers targeted the Arab World. In a new report, the Arab Advisors Group provides a detailed analysis and projections of the satellite Pay TV market in the Arab World.

Arab Advisors Group compared the main KPIs of the five Pay TV

providers in the Arab World; OSN, belN Sports, Abu Dhabi Sports, Al-Majd AND MYHD. With the entrance of MyHD in 2013, the number of Pay TV providers in the Arab World totaled five. The Arab Pay TV market still contains the ability of growth and can accommodate other players.

"The Arab Advisors Group expects the Pay TV market to continue to have a steady paced growth for the years 2014 -2017. The Arab Advisors Group projects Pay TV's total market subscribers' base to grow at a CAGR of 12% between the years 2013 and 2017, totaling 18.8 million subscribers by end of 2017. We estimate total market revenues to grow at a CAGR of 11% for years (2013 - 2017) totaling US\$ 2.5 billion" Ms. Mai Al-Zeir, Arab Advisors' Senior Research Analyst wrote in the report.

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From Dubai to Rio & Aberdeen: A New E+P+SatComs Agenda Horizon

by Martin Jarrold

International Conference & Exhibition poration | | Satellite Interference Re-Centre (DICEC) on 12th and 13th duction Group | SES | Sky-Stream | March.

The Summit addressed satellite RFI issues in two distinct parts: Part 1 focusing on "Proactivity", looking at Challenges & Preventative Measures, and Part 2 focusing on "Reactivity", examining Challenges & Mitigation

Approaches, and comprised a mix of presentations, Q&A, and panel sessions. Presentations from the **Summit** covering such themes as: ITU Proactivity and Reactivity to **Ensure Interference-Free** Satellite Services; MENA's Satellite Broadcast Telecoms: An Overview of Today's Market Environment; Improper Installations and Training & Certification; Wireless Interference and Spectrum Data; MENA's Regulatory-

Interference Interface: Addressing **Interference Matters & Avoiding Inter**ference Incidents; Deliberate Interference and the Arab States Broadcasting Union (ASBU) Tunis Action Plan: Implementing Solutions for MENA; Unidentified Carriers and Carrier ID; and, **Dysfunctional Networks and Network** Validation. The Summit speakers represented the following organizations: Access Partnership | Arab Advisors

y column this month begins Group | | Arab States Broadcasting Un- degree of scaling-back on new oil fron-Talia.

> terms, of course one thinks of oil – that is, well-established exploitation of longcharted and significant reserves. Interestingly, the year 2013 saw something of a hydrocarbons exploration regression in high-profile "frontier" parts of

United Broadcast

Security Initiative; Sub- The Middle East is enjoying a broadcasting boom, as Standard Equipment and evidenced at the recent CABSAT 2014 exhibition held Product Quality Assur- in Dubai, UAE. However, the Middle East also has the ance; Information Sharing highest levels of satellite interference occurrences in and Geolocation & Space the world. (image: DWTC)

the global oil & gas patch - notably offshore of western Africa from Sierra Leone to the north and Angola to the south - making the year one of the worst for successful new oil discoveries since 1995. As a result, the explorationled oil companies have been badly affected, and a number of oil majors are changing the emphasis and focus of "frontier" activity. This refocusing may potentially result in some

with a brief follow-up to the ion | | Arabsat | | Avanti Communica- tier exploration activity and lead to GVF MENASAT @ CABSAT tions || Eutelsat || GVF Training || adjustments in the energy sector's at-2014 - Satellite Interference Summit, International Telecommunication Un-tention, more towards new gas, rather which took take place at the **Dubai** ion || MenaNets || Newtec || Sat Cor- than towards new oil, whilst at the same time consolidating attention on examples of such other established oil reserves, like those of the Gulf of Mexico, and also on Brazil's more-recently When one thinks of Dubai in general identified, but proven, offshore re-

> Brazilian Government financial and other incentives, together with investments by foreign energy companies,

> > have encouraged international technology companies to help take advantage of the opportunity presented by the potential of Brazil's "Big Oil". Of course as is now well recognized, with "Big Oil" has come "Big Data" - the specialism which focuses on solutions and services to store, manage, protect and analyze information extracted from the large volume of data generated by the oil industry, much of which is increasingly generated out of the rapidly expanding satelcommunications/ Machine-to-Machine (M2M) interface, a theme comprising part of the

agenda for the GVF-EMP conference Oil & Gas Comms Brazil 2014: Big Oil, Big Data - The Deepwater Ocean Expanse.

This event – which will take place at the Windsor Plaza Copacabana Hotel in **Rio de Janeiro** on 15th & 16th April 2014 - brings the GVF-EMP Oil & Gas Communications Series to its 20th event, and to the fourth annual conference in the global Series to address the communications networking imperatives of the Brazilian region of the global 'oil & gas patch'. The continually strengthening rationale for a Braziloriented oil & gas communications event - which builds on the successes of the previous three Rio de Janeiro conferences in 2011, 2012, and 2013 and of the previous 19 conferences of the entire global Series, and which is supported by **Petrobras** as well as being sponsored by Intelsat, Hughes, and SES - which is O&GCommsBrazil 2014, offers to the market an ICT-oriented dialogue at the increasingly crucial interface of elevated demand for solutions by the energy vertical and the supply of those solutions from the communications, primarily satellite communications, industry.

Over two days of discussion, O&GCommsBrazil 2014 will examine the full range of satellite-based communications, and integrated satelliteterrestrial hybrid communications solutions, to which the oil & gas industry turns to play a vital role in providing the essential connectivity and access to vital applications. Mission critical operational success in the upstream exploration and production (E&P) environment is dependent on access to the most efficient ICTs, and to a wealth of sophisticated applications which generate massive volumes of disparate data in multiple formats (including GPS, acoustic, compass and other sensor data), that is rendered available to teams of geologists, geophysicists, drilling engineers, seismic data analysts, etc., who use the information for predictive analysis.

As noted, M2M communications is now a key connectivity focus for oil & gas E&P. Dialogs concerning the interface and synergy of M2M communications and satellite communications must begin with at least a nod to immediate



Oil & Gas Communications Brazil Big Oil - Big Data

Rio de janeiro, April 15 & 16, 2014

IPv6 which will bring on the full poten- www.uk-emp.co.uk/current-events/otial of the Internet of Things, and it is g-comms-brazil-2014/ or by contacting the IoT which will be the ultimate realization of a future universal M2M environment which will far exceed the potential boundaries and limited scope of even the greatest reach of a legacy supervisory control and data acquisition (SCADA) systems environment. The IoT which will create dynamic networks of billions of wireless identifiable 'things', intelligently communicating with one another, bringing ubiquitous computing, and integrating the digital world and the physical world. More concretely, improved sensor device capabilities will facilitate business logic at the edges of networks, facilitating decision-making based on real-time readings from sensors that are used to monitor pretty much anything and everything that can, and ought, to be monitored in, for example, a drilling-rig or well-head, etc., environment. Globally, satellite M2M is growing fast, and the aggregated target markets make its potential for the satellite industry very important.

The Rio de Janeiro list of applications and connectivity imperatives to be discussed will include ICT aspects of: safety systems provision on oil & gas installations at sea; the enhanced application of satellite-based security provisions related to the use of "Cloud"based data traffic networking; and, of great significance to the growth of "Big Oil" and "Big Data" in the region, the impact of the latest high-capacity, highthroughput, satellite technologies (HTS) on the communications solutions vital to hydrocarbons E&P, including, potentially, video streams from unmanned aerial vehicles (UAVs) on security patrol around isolated offshore installations.

future-history, noting the longer-term Information updates for the Rio de Jasignificance of the transitioning to neiro conference may be obtained Internet Protocol version 6 (IPv6). It is from the conference webpages

me at martin.jarrold@gvf.org.

Approximately one month after the Rio de Janeiro conference, attention will turn to GVF Oil & Gas Comms Europe 2014: Big Oil, Big Data - North Sea, Atlantic Margin, Arctic Ocean, which takes place 13th & 14th May in Aberdeen and the URL for which is www.uk -emp.co.uk/current-events/o-gcomms-europe-2014/.

The program for this latest event dedicated to the European "oil & gas patch" will include exploration of the communications imperatives and the delivery of networking solutions for the extreme northerly and westerly boundaries of Europe's new hydrocarbon E&P opportunity. Although in 2013 the search for Arctic reserves slowed, it is still fundamentally true that all the nations with territorial claims to the Arctic Ocean floor are gearing-up to exploit its hydrocarbons yielding potential. The three Arctic Nations of Europe - Denmark, Norway and Russia - continue to look to the ocean floor hydrocarbon resource potential of the Arctic Basin rock strata, and with global climate change warming the Arctic latitudes, opening-up the North-Western and North-Eastern Passages to yearround maritime navigation, the positioning of semi-submersible and floating drilling platforms becomes more viable. It is in this context that the satellite and wireless communications industry must increasingly prepare for, and to respond to, these new business opportunities.



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



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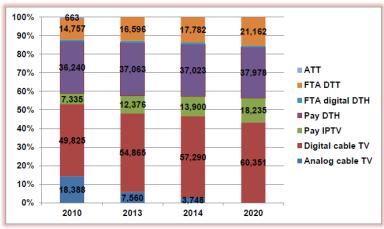


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North America TV Households

North America: Share of TV households by platform (000)



Source: Digital TV Research

espite all of the talk about cord-cutting, a new report from Digital TV Research forecasts that the number of pay TV subscribers in North America will continue to increase – despite a small decline in 2013. The Digital TV North America report estimates that nearly 5 million more subscribers will be added between 2013 and 2020.

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3 April 2014 Satellite Executive Briefing

The Satellite Markets 25 IndexTM

Company Name	Symbol	Price (Mar. 31)	% Change from Last Month	52-wk	Range		% change from 52- wk High
Satellite Operators							
Asia Satellite Telecommunications Eutelsat Communications S.A. APT Satellite Holdings Ltd. Inmarsat Plc SES GLOBAL FDR	1135.HK ETL.PA 1045.HK ISAT.L SES.F	32.00 24.50 9.16 727.50 27.32	-5.33% 3.64% -9.13% 4.75% 8.63%	26.85 20.41 4.78 80.01 20.81	35.00 28.00 12.00 784.00 27.50	+++++++++++++++++++++++++++++++++++++++	8.57% 12.48% 23.67% 7.21% 0.65%
Satellite and Component Manufacturers							
The Boeing Company COM DEV International Ltd. Lockheed Martin Corporation Loral Space & Communications, Inc. Orbital Sciences Corp.	BA CDV.TO LMT LORL ORB	125.65 3.73 162.76 70.91 27.61	-2.54% -5.81% 0.28% -10.26% -2.85%	83.80 3.32 94.00 59.10 15.71	144.57 4.40 168.41 82.13 29.41	+++++	12.95% 15.23% 3.56% 13.92% 6.29%
Ground Equipment Manufacturers							
C-Com Satellite Systems Inc. Comtech Telecommunications Corp. Harris Corporation Honeywell International Inc. ViaSat Inc.	CMLV CMTL HRS HON VSAT	1.61 31.73 73.63 91.96 68.82	-12.97% -0.87% -0.26% -2.63% 3.16%	0.83 22.65 41.08 70.92 45.18	2.37 33.80 75.33 95.91 74.78	+++++++++++++++++++++++++++++++++++++++	32.07% 5.99% 2.47% 4.16% 8.50%
Satellite Service Providers							
Gilat Satellite Networks Ltd. Globecomm Systems Inc. International Datacasting Corporation ORBCOMM, Inc. RRSat Global Communications Network Ltd	GILT GCOM IDC.TO ORBC RRST	4.99 14.10 0.10 6.45 8.71	-5.13% 0.00% 5.26% -17.41% -3.44%	4.09 10.49 0.07 3.40 6.97	6.11 14.91 0.23 8.21 9.39	+++++++++++++++++++++++++++++++++++++++	18.33% 5.43% 56.52% 21.92% 7.24%
Consumer Satellite Services							
British Sky Broadcasting Group plc DIRECTV Dish Network Corp. Globalstar Inc. Sirius XM Holdings Inc.	BSYBY DTV DISH GSAT SIRI	61.27 76.69 62.06 2.62 3.16	-3.34% -1.17% 5.47% 15.42% -12.47%	46.45 53.50 34.77 0.26 2.95	63.79 80.77 63.98 2.73 4.18	+++++++++++++++++++++++++++++++++++++++	4.19% 5.30% 2.97% 4.03% 23.93%

INDEX	Index Value (Mar. 31)	% Change from Last Month	% Change Jan. 03, 2014
Satellite Markets 25 Index [™]	1,719.04	1.08%	0.48%
S & P 500	1,872.78	0.72%	2.27%

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 Markets Index™ is January 2, 2008--the first day of operation for Satellite Market and Research. The Index equals 1,000. The Satellite Markets Index™ provides a benchmark to gauge the overall health of the satellite industry.

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DVB-S/S2 Broadcast Modems



Modular Design with built in Redundancy 3kW Ku-Band System GaN Based - SapphireBlu™ Series



One button - DSNG / Flyaway Fully Integrated Antennas, Controllers & Modems



6.6kW C-Band or X-Band Rackmount SSPA GaN Based - SapphireBlu™Series





Satellite Frequency Converters & Test Loop Translators