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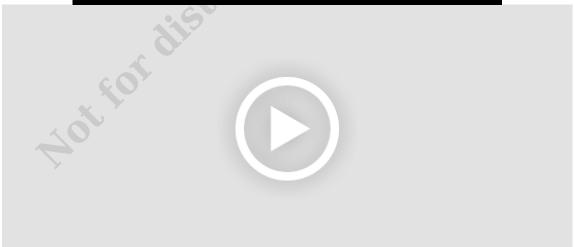
Nokia To Modernize Mobile Network in Armenia

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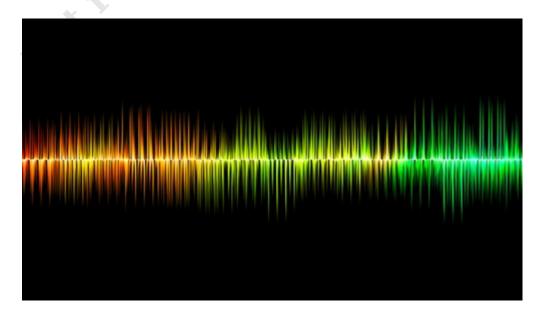
End-to-End Solutions for Broadband Networks

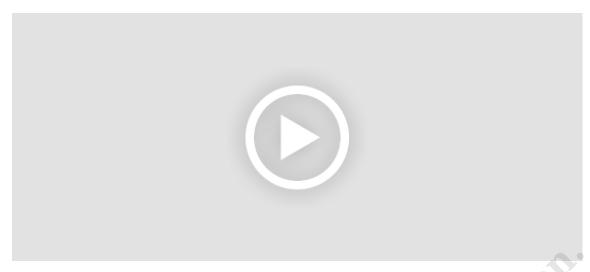
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



Predicting Colonial Pipeline: Mitigating Risk and Compliance

Mitigating risk and compliance for lawful intercept using lawful intelligence is explored in this Pipeline article feature SS8. Learn how CSPs can comply with lawful intercept regulation, while empowering law information with critical, real-time data.





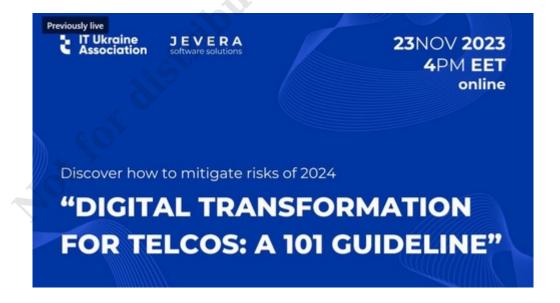
Podcast: The Evolution to 6G

The world's eyes are already looking forward to the potential of 6G. Demands resulting from innovative use cases, for instance specific requirements from different industries and other user groups, as well as overarching goals like sustainability, are driving the standardization and development of mobile technologies.

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A Dynamic Panel Accussion Featuring
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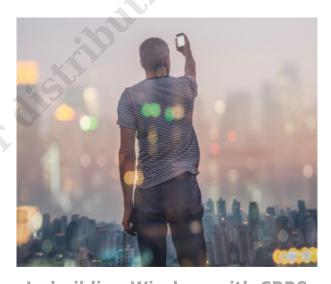
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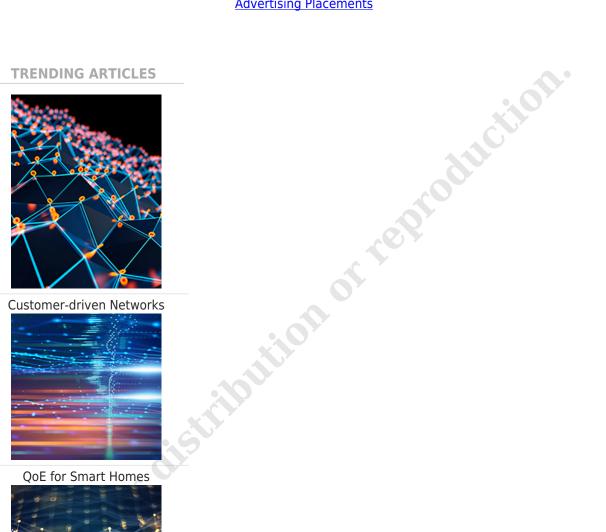
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Creating Communities

Communications service providers play a vital role in building rural America. Connecting unserved or under served communities through broadband technology improves their way of life and closes the digital divide by providing economic opportunities otherwise not possible.

CHR Solutions is a proven industry leader with over 75 years of experience and will help you invest in broadband. Our complete solution gives you the tools necessary to make strategic business decisions for building, marketing, and monetizing your network.

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SS8

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SSB Networks provides the tastest and simples way to collect, monitor, analyze, and visualize lawful intelligence data. For more than 20 years, we have optimized our solutions for Dav Enforcement Agency LICE analysts and enable the mitoturn complex data sets into actionable or analysts.

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IMPACT OF 5G ON LOCATION ACCURACY & LAWFUL INTERCEPTION



SS8



SOLUTION BRIEF

Distributed cell site gateway from ADVA and Edgecore

Open and disaggregated path to 5G infrastructure



As innovation and growth in packet and wireless networks continues to accelerate, communication service provides (CSPs) and mobile network operations (NNOs) no longer have time to wait for their vendors to come up with higher capacity devices that meet the bifest requirements. Now there's a new way to grow networks that combines the agility of software-based feature development with the performance and economics of bare-metal owthers. Building a network for 5G access is now as simple as selecting a hardware component with higher capacity and installing the network operating system (NOS). And to help, ADNA and Edgecore have combined forces to deliver a disaggregated cell site gateway (DCSG) solution that provides the required features in an open and multi-vendor fashion.

Meeting the bandwidth demand in 5G

Access speech will increase dramatically for 5G networks, and base stations will move from 15G to 15

are paving the way for open, agile, and efficient mobile ecosystems.

Moving from closed to open

MNOs and CSPs want to break open single-vendor side to increase competition and reduce cost. That has led to increasing interest in disaggregated networking with packet network devices implemented as white box switches and open network opening systems. That's why the Telecom loffs Project (TP) defined the DCSG as well as OpenRAN. Both are essential to supporting the move to rest-generation acid airchitectures.

According to TIPs DCSG Technical Specification, the DCSG is "an open and disaggregated platform based on commercial off-the-shelf components and

Fage 1 of 3 G-ADVA, all rights received farmery 20

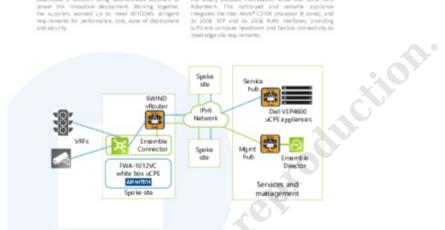


WiTCOM deploys open multi-vendor solution to power smart city initiative

Secure open platform powers edge cloud for IoT, video and next-gen services

WiTCOM provides business customers, government institutions, and ITC service providers in Wiesbaden with professional telecommunication services and secure data center services. Now WiTCOM is deploying an open uCPE platform as an edge cloud to host smart city services, including IoT, traffic control, surveillance, and wholesale services.

Security is an essential element of the solution, and is provided by the 68HIAD Turbo Plact vibuser. The vibuser is deployed in virtual machines (vits) at each of the spokes, and at the hub as an aggregation.





DATA DRIVEN. RESULTS ORIENTED. YOUR BROADBAND SUCCESS.

Rural America needs access to broadband. But closing the digital divide can be complicated—and with so many service provides facing increased competition, mounting costs, supply chain issues and eroding revenues, you need more than a

CHR Solutions has the technology and the expertise to help you make informed decisions that enable you to get the job done efficiently, on budget and on time. From feasibility studies to network design to construction, we partner with you every step of the way to optimize your operation and increase your speed to market.

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CHR helped to train and guide us through the fiber-to-the-home design, engineering and permitting processes. They have become my go to lisison with city, county and state permitting authorities. If you want to work with people that are willing to help and get your foot in the door in your state right of ways. I highly recommend CHR (they even do wireless & tower engineering too)!

- Jason Pond, CEO, Grizzly Broadband, LLC

Our Experience, Your Advantage.





The Challenges for Market Growth

Communication Service Providers (CSPs) in today's Telecoms industry are keenly aware of the need to innovate and grow market share while controlling cost to serve and improving margins.



Coportunities for Established Operators

For established Mobile Network Operators faced with declining revenues, opportunities exist to (a) drive acquisition/retention activities through improved customer experience, and (b) maximize the value of the business customer base through enhanced corporate service offerings.

(a) Customer Experience - Improving the experience of existing customers, often with a range of service offerings distributed across many source billing systems, requires the adoption of a 'Single View'

- Single View of Products
 Single Point of Contact . Single Bill and Reporting.

Aoi for distri

This is especially relevant for multinational corporations that operate across regional boundaries

in multiple languages and currencies that have little or no centralised telecoms account management and cost analysis.

The typical approach to achieving a single view of the customer is through billing transformation, which can be a costly and complex initiative.

(b) Enhanced Corporate Service Offerings — Convergence, whether in the form of Unified Communications or Fixed-Mobile Convergence, is an expectation driven by the market. This presents CSPs with a whole new set of challenges that reach far beyond IT systems. The convergence of mobile, fixedne and P services crosses the entire customer lifecycle, including:

- . Order Capture for multiple services with
- . Order Management -that includes hardware, software and network provisioning
- Rating & Billing for neutring charges, usage charges, one-time charges, credits and adjustments across multiple integrated
- Care & Manage unified account management, e-bill presentation and online analysis.

New Channels to Market for Greenfield Operators

For Greenfield Virtual Network Enablers (VNEs) the recent resurgence of interest in the VNE busi model, and the fact that convergent services are fast becoming a necessity rather than a nice-to-have, presents an opportunity for a broader range of service providers to grow revenues in the 828 market, including:

Managed BSS for Accelerated Business Growth



Whitepapers



TOP TEN PREDICTIONS FOR THE TELECOMMUNICATIONS INDUSTRY IN 2011

For B/OSS, Managing the Manager is #1, says Progress Software
Progress Software Coporation (NASDAC: PRGS), a leading software provider that enables companies to be
operationally responsive, predicts that telecommunications service providers will increasingly be able to detect
technology problems that might affect oustomers, solving them before the customers even know they exist.

Sanjay Kumar, Industry Vice President for Communications and Media at Progress Soltware, said, "The telecommunications field is very comprehive, and service providers have to do what they can to differentiate their orderings. Solving problems before they happen goes a long any toward managing the customer experience." The firm also predicts that mobile service providers will have to build stronger relationships with customers, mainly by providing unique offerings to grab and hold their attention.

Progress Software's Telecommunications predictions for 2011:

- For BrOSS, managing the manager is key. Traditional business and operational support systems (BrOSS) will require systems to manage the systems. Most service providers have invested so much in ther BrOSS infrastructure assets that they cannot be easily replaced and need an adapted layer to respond to real-time business demands and reenergize the existing 8/OSS infrastructure's value.
- You will predict problems before they come to light. Telco service providers will be able to predict when there is a potential issue that will affect customers—and correct it before it happens. The pre-emptive correction of problems before the customer knows they exist will become a key factor in differentiating service providers and improving the customer's level of service.
- Loyalty program. Mobile service providers facing mounting competitive forces will have to build stronger relationships with their customers. They will need to provide outstomers with unique, interactive experiences to build stronger loyalty by bapping into automore call patterns and locations, cometating with outstomer preferences and providing value-added services to outstamice each customer's experience in a unique way.
- 4. Partly cloudy. As communication service providers head for the cloud, they will struggle with data interoperability between cloud and non-doud environments. Operators will need advanced data transformation and adaptive technologies to take full advantage of doud-based applications.
- Mind the gap. Operators will be increasingly trapped in the gap between customer expectations for flexibility and speed, and the limitations in existing 8/OSS infrastructure. This will drive demand for new business user toolsets to overfay 8/OSS, enabling service providers to respond and deploy new solutions.

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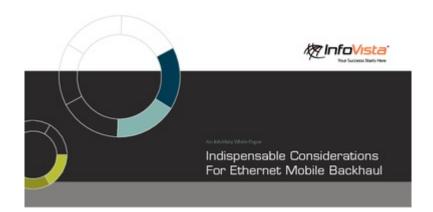
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Project Directors: Paul Devine and Sebestian Selhorst

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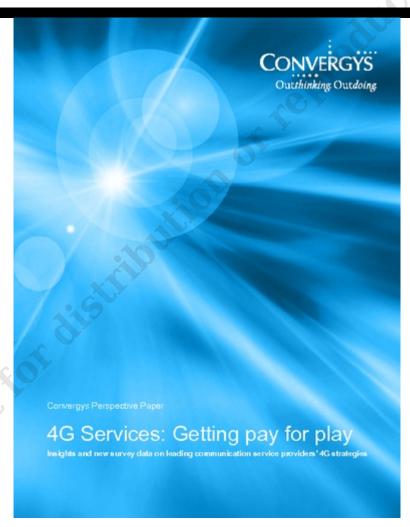
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A dynamic, pre-integrated billing and CRM solution that brings together your entire business ecosystem.

Omnia360 transcends traditional billing platforms with a complete 'out of the-box, pre-integrated customer relationship management and stilling solution. Analistic as a fully-hosted cloud-based solution or onsite license subscription, our nest-generation solution empowers communications service provides (CSPs) with a client center model for service differentiation and regid deployment of new services, especially within the Enterprise space.

Leveraging Microsoft Dynamics® CRM. Omnia360 best of breed software platform delivers a comprehensive, turn-lies backoffice solution for CSPs to monetze new untapped revenue opportunities.

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Sigma Systems and NDS

Orchestrating New and Unified Entertainment Experiences

Upgrading traditional offerings and deploying new hybrid/P platforms are an increasing focus as service providers look to evolve to offer a truly personalized video entertainment experience to subscribers – anytime, anywhere and on any device. Sigma Systems and NDS have developed an integration partnership to help service providers achieve this goal by provisioning and delivering advanced video and entertainment services that attract subscribers and generate

One Managed View of Video Access Entitlements
Critical to the success of leveraging the NDS solution portfolio for advanced TV/video services is the ability to seamlessly enable customers to access and view premium content. Signa Systems provides the service or the strate for the necessary authorizations, entitlements and provisioning of nDSS systems for subscribers through a single OSS solution – namaging video conditional access rights, entitlements for premium content, VOO, DVR PvR and also provisioning IP set-tops and residential gateway devices.

TV Anywhere Authorized to Enable Multiple Devices
Subscribers are increasingly demanding anytime anywhere access to their premium content on multiple devices from their TV, personal computer, and personal tablets such as the Apple* Pad*. Sigma Systems provides comprehensive subscriber entitlements management, which is key in seamlessly delivering the multi-device, multi-room, TV anywhere entertainment experience to subscribers. Service providers benefit from service fulfillment that extends beyond subscriber service plans and profiles with a completely integrated view and management of users, devices, and cloud-application

Effectively Migrate Subscribers from Standard to Premium Entertainment

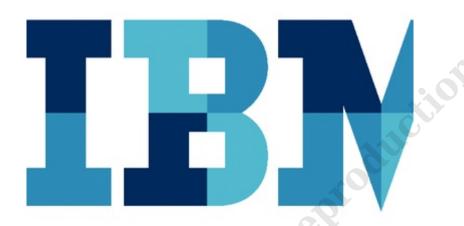
Delivering new entertainment experiences to subscribers doesn't have to involve an immediate and costly video network Detriening new extertainment experiences to substrates despit have to envote a numericate and costsy video between evolution. Sigma Systems' empowers service providers to leverage existing video networks in order to move beyond linear for services such as digital TV, PPV, VCO, and DVR,PPK through support for next-perientation PTV.PP video platforms, like NDS, on a single integrated OSS service management glatform. This co-existent service fulfillment environment manages the provisioning and activation of all enhanced entertainment services, helping service providers to launch new premium video services and bundled packages that drive new revenue and reduce customer chum.



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Network Analytics: Turn Big Data into Big Opportunity

Seven Steps for Network Operations, Marketing, Customer Care and IT



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