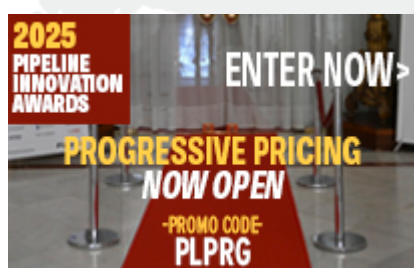


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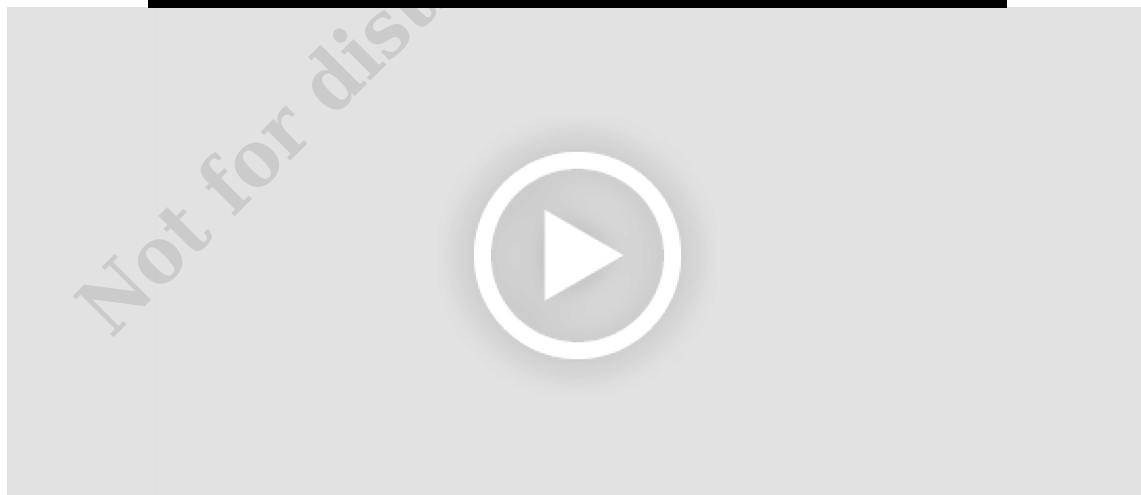
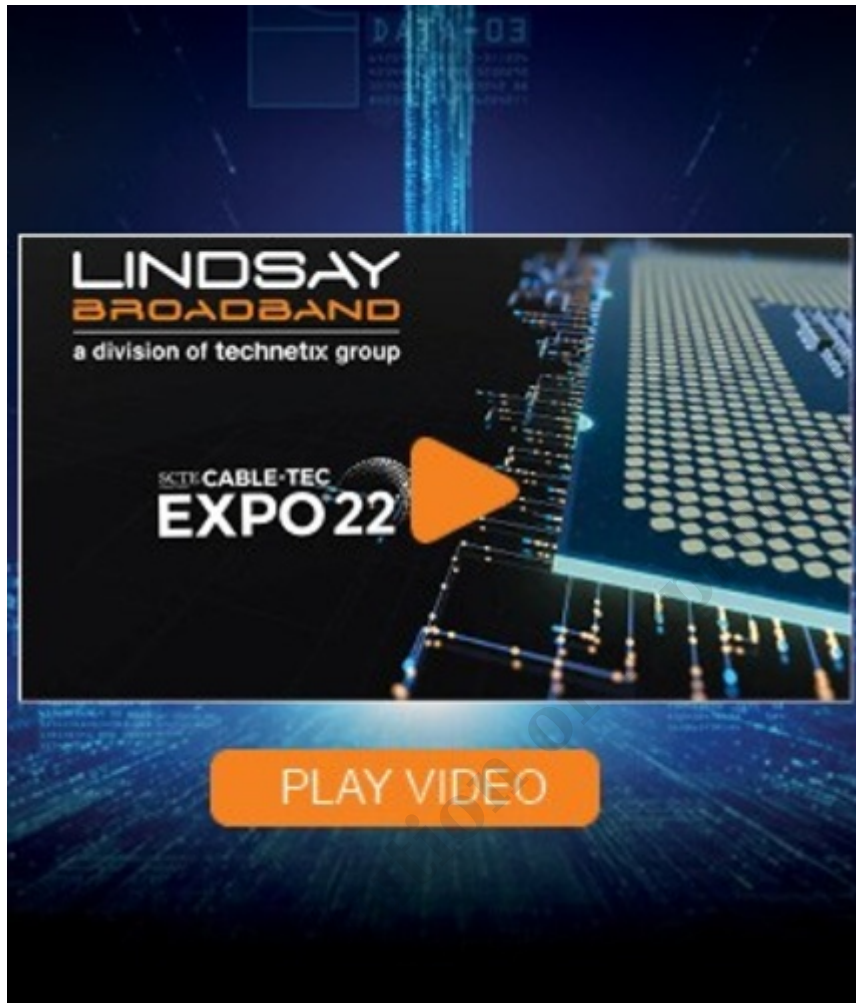
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Palo Alto Networks to Acquire CyberArk

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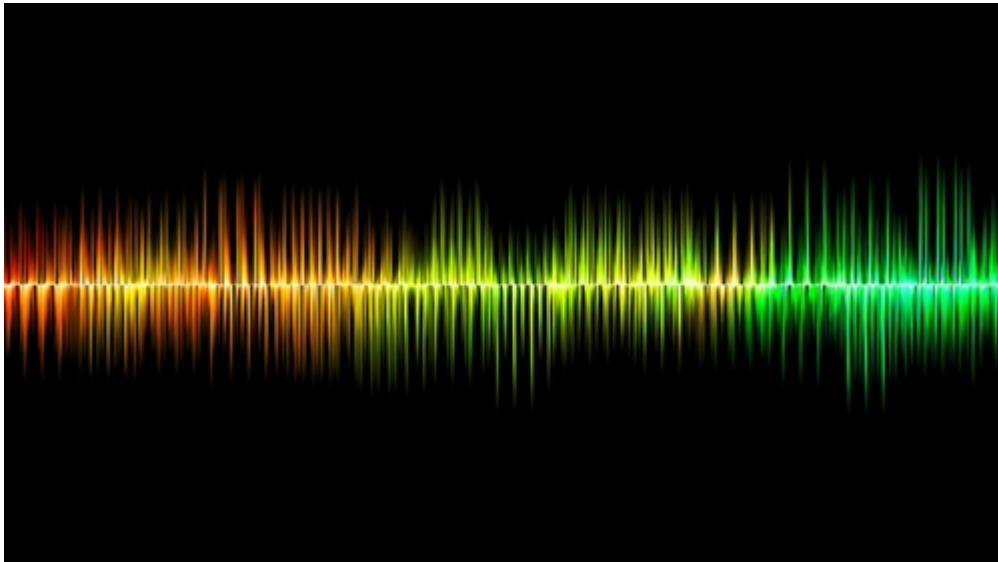
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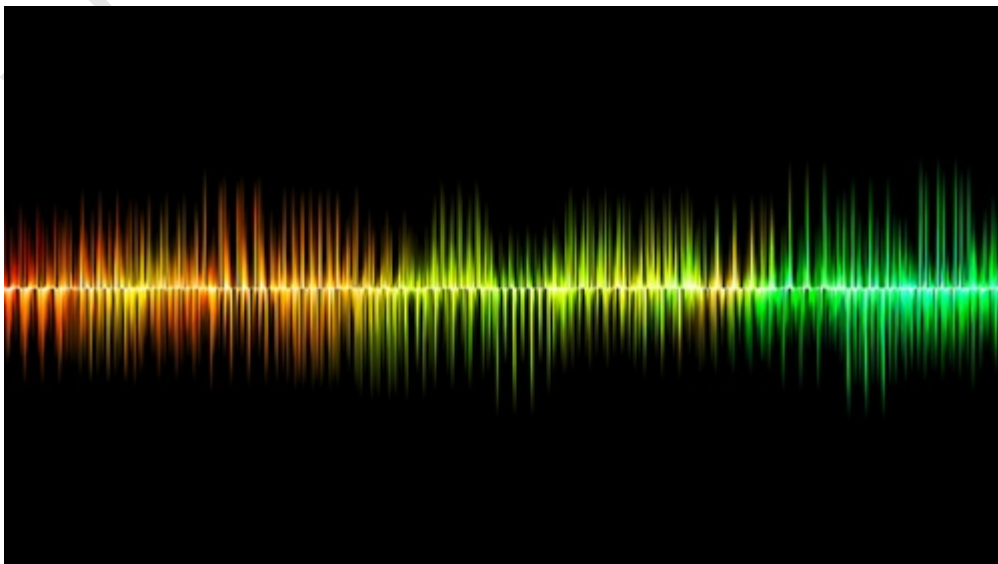
End-to-End Solutions for Broadband Networks

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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The Impact of Transformation

*A Dynamic Panel Discussion Featuring
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The Network Transformation Imperative

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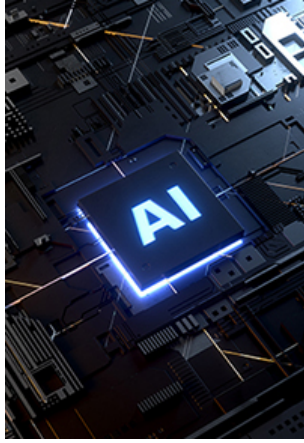
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The communications industry's most advanced
Enterprise Product Management software solution

TIME TO TAKE CONTROL

These are challenging times for the telecoms and media sectors. Fierce competition is lowering margins. Converging technologies are making product differentiation problematic. Cost pressures are mounting. Customers are treating products as disposable commodities while brand loyalty is fast becoming a thing of the past.

Facing these difficulties, Communication Service Providers (CSPs) are discovering that delivering innovative, profitable products is an increasingly demanding task, but one that has become paramount to their ability to effectively compete and deliver in this fast evolving industry.

Enterprise Product Management is about taking control over these challenges and providing the key to how CSPs go to market and with what products and services.

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...

Pulse INP Comprehensive End-to-End Revenue Assurance

REAL-TIME INTELLIGENT ROUTING FROM AN INDUSTRY PIONEER

SAVE on local and LD costs

ROUTE based on best value

PEER with partners

ENABLE policy-based routing

ADDRESS number portability

NEGOTIATE with suppliers

ENSURE quality of routes

RECONCILE billing records

EMPOWER decision making



The Pulse Intelligent Network Platform (INP) offers advanced analytics into supplier identity, margins, and profitability. It enables real-time margin assurance by centralizing and automating routing policies and network control. Pulse addresses unique requirements of the Interconnect team to negotiate better rates, increase the number of suppliers, lower costs, and improve operating margins. For the Network Operations team, Pulse INP can deliver the ability to translate several hundred rate decks from one or more suppliers, in disparate formats, into real-time switch routing actions. It also prevents revenue leakage by providing the ability to apply routing policies in real-time, bypassing or overriding routes, or diverting suspected incoming traffic for specialized handling. Pulse empowers key decision makers with valuable network insight to make informed and timely decisions.

Modular, flexible, real-time solution

Pulse is an industry pioneer in real-time, intelligent least cost routing solutions. Pulse is flexible, modular, and can be scaled to meet the growing needs of your organization. Start with basic least cost routing and add new modules as your needs grow.



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

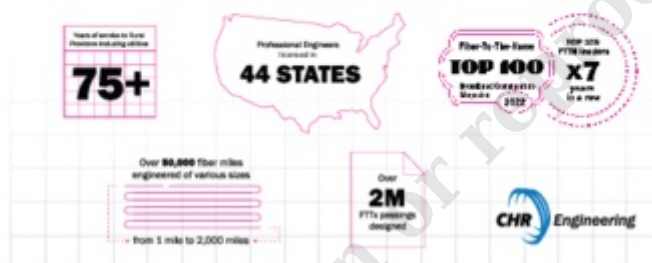
CHR Solutions has the technology and the expertise to help you make informed decisions that enable you to get the job done efficiently, on budget and on time. From feasibility studies to network design to construction, we partner with you every step of the way to optimize your operation and increase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

“

CHR helped to train and guide us through the fiber-to-the-home design, engineering and permitting processes. They have become my go to liaison 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

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*An Excerpt - BRIDGING THE OSS/BSS GAP –
STRATEGIES FOR DYNAMIC ORDER MANAGEMENT
(OSSCS 11-11)*



January 2011

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"We Accelerate Growth"



White Paper

**Real-Time Streaming Analytics for
Telecom: The Essential Guide**

Prepared by

Ari Banerjee
Senior Analyst, Heavy Reading
www.heavyreading.com

on behalf of



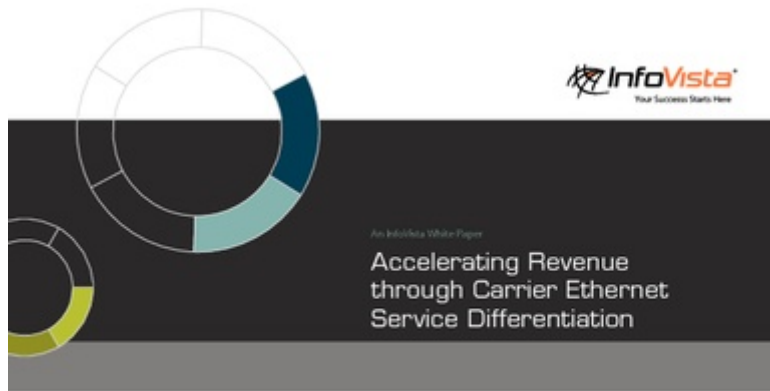
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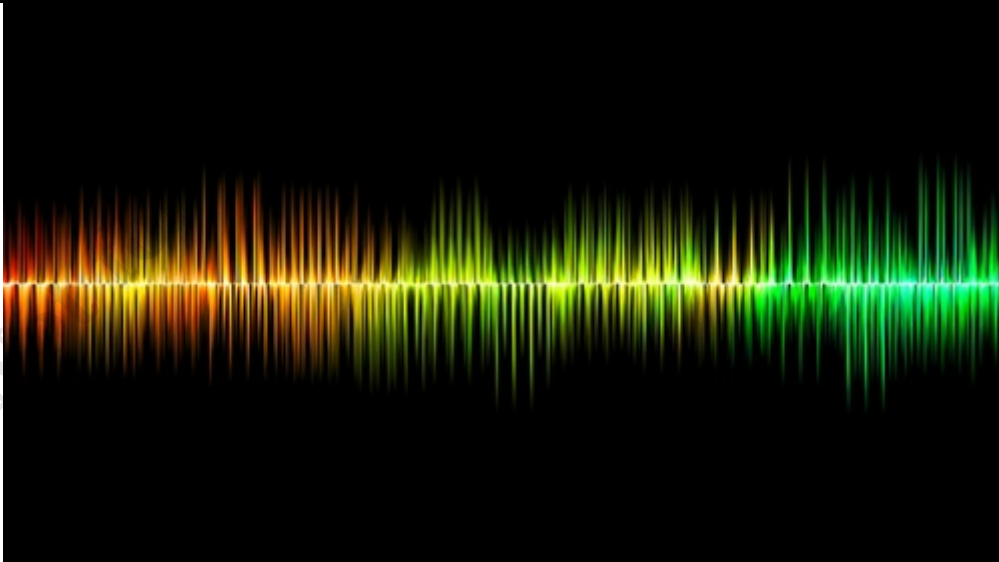
Why MVNOs and Carriers Aren't Right for Your M2M Application



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OVER 25 YEARS, 150,000 MILES OF DATA

- SAVE money on data services
- GUARANTEE best practices
- ENSURE data accuracy
- AVOID government regulatory obstacles

Enghouse Data Services (formerly Moore Resource Systems) is a specialized team of GIS experts who make it possible for organizations to create and maintain geo-spatial enabled data for their next generation enterprise IT applications. The services that Enghouse provides can involve large data entry tasks to help populate unique data models or specific data updates based on field changes to a company's assets.

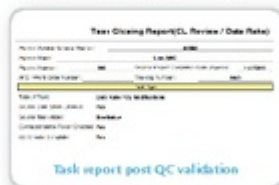
Our Enghouse Data Services team specializes in providing seamless project management support for an organization's own team. Data Services works with an organization's staff to assist in the tracking and completion of tasks on a daily basis to meet specific and prioritized needs.

DATA VALIDATION & QA

The Enghouse Data Services team offers specialized tools that enable validation of source data before conversion to the target. These specialized tools can highlight problem areas that need to be corrected (e.g. data integrity rules) that might be broken by migrating to the target system.

DATA TRANSFORMATION

In a complex data cleaning and migration effort, data very often needs to be transformed between one or more formats. The Enghouse Data Services team accurately transforms the most challenging data, whether spatial or non-spatial.



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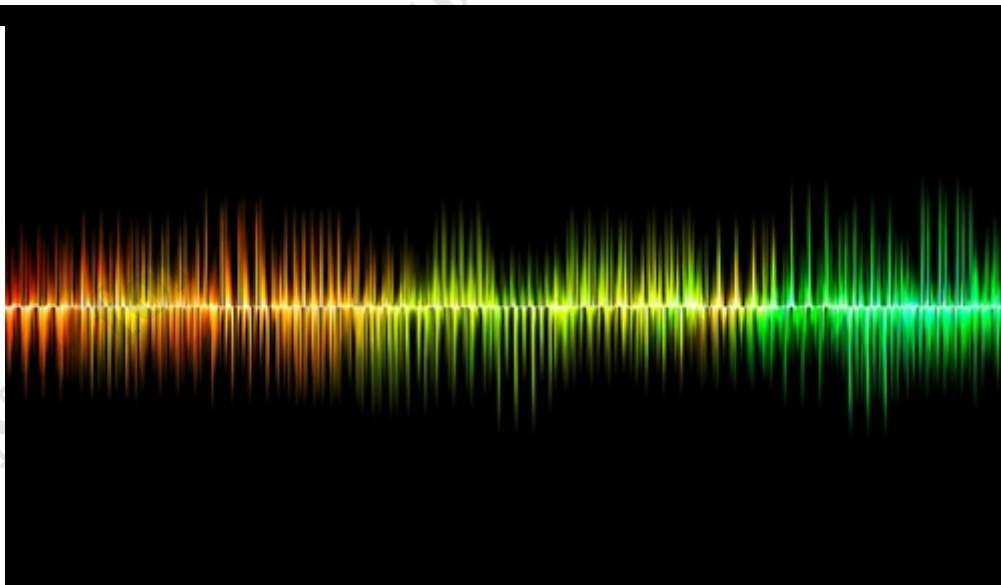
Making it work and making a profit are the two greatest challenges IPTV service providers face. From building your network to billing for service, CHR is with you every step of the way.

■ IMPROVE INTEGRATION

Whether you're integrating legacy and new-gen systems or middleware and BSS, the variables of IPTV implementations are vast. With more than 60 years serving communications service providers in every capacity of their business, CHR has the expertise and resources to simplify your IPTV experience. Our holistic approach and experienced team work with you to weave together the many elements necessary to make IPTV work.

■ PROMOTE PROFITABILITY

As competition escalates and regulatory support declines, the battle for profit becomes ever more crucial. Uncover new ways to increase profits margins and drive new revenue by leveraging CHR's cross-4 back line philosophy and comprehensive service offerings. CHR's Integrated Services and In-Room Wiring team will help you spend time in market—more quickly making return on your investment and improving customer retention with professionally provisioned home networks. Create an unparalleled customer experience with Mediatek™—reducing churn and raising ASPU.



White Paper

Preparing the OSS Back Office for New SMB Services & Bundles

Written by:

Alan Breznick, Senior Analyst, Heavy Reading, in cooperation with

Rick Mallon, Vice President, Product Management, Sigma Systems

June 2011



The Business Potential of NFV/SDN for Telecoms

How a Network as a Distributed Cloud can Reshape Itself to Better Serve Customer Applications

What will you learn

- What are the potential benefits of implementing Network Function Virtualization (NFV) and software-defined networking (SDN)?
- How to transform the (access) network towards a distributed cloud platform capable to reshape itself dynamically to better serve customer applications?
- How to run network functions and customer cloud applications on the same hardware?
- What are the benefits of colocating network functions and customer applications for improving customer experience?
- Why is it essential to implement control via policies in the NFV/SDN scenario?
- How does BSS/OSS support NFV and why should OSS work in real-time?

Network Function Virtualization (NFV) appears to be a very promising, yet very disruptive, technology. At its simplest, NFV is about decoupling software from hardware and enabling the implementation to run on a farm of commodity hardware. In other words, it means placing network functions (NF) in the cloud.

The Potential Benefits of NFV/SDN technology

From the perspective of network operators, the new technology entails the ability to become a real cloud provider in a new sense, where a network is no longer simply an access network to data centers. On the contrary, the network can become a cloud serving as a platform for customer applications, and it can dynamically reshape its architecture to meet customer needs. This revolution is possible thanks to combining NFV and software-defined networking (SDN) technologies, which means that networks can adapt by being reprogrammed. Moreover, network nodes can also become part of distributed data centers that not only can host network functions, but also host applications. From the perspective of customers, this means that applications can be moved "closer to the customer," entailing lower latency and higher speed, thus leading to better customer experience.

The technology also promises to open the network to innovation from the software developer ecosystem. Instead of rigid networks that are difficult to adjust to different application needs, the network is to be programmable, ready for the era of the Internet of Things (IoT), where applications can have their own virtual networks programmed.

From the cost savings point of view, the liberation from dedicated (expensive) hardware in favor of commodity (cheap) hardware promises to reduce CAPEX (capital expenditure). Also, the idea of a purely software-based network reconfiguration should reduce OPEX (operational expenditure). This may not be that obvious if one of the goals is to make the network more dynamic, reshaped to meet the needs of applications and thus be much more complex to control, when a traditional approach to network management is taken.

“From the cost savings point of view, the liberation from dedicated (expensive) hardware in favor of commodity (cheap) hardware promises to reduce CAPEX (capital expenditure). Also, the idea of a purely software-based network reconfiguration should reduce OPEX (operational expenditure).”

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1

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Relying on single point dependencies and perishable paper records create vulnerabilities for your customer, community and company. CHR's GIS/CAD Services take the guess work out of geospatial management and ensure your business is on the right path.

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- Data extraction and normalization from paper to CAD
- Database and coordinate creation (lat/long, roads, hydrology, landmarks, row)
- Data exports to OneCall-OpenView & Google Earth
- Data imports (PESA, soils, DFW, FCC)
- Graphical object assignment (Routes, pads, C-S&A)
- Aerial imagery and GPS
- Ongoing system updates and support of geospatial data
- Report, query and analysis capabilities
- Data files hosted on CHR servers
- Facilities management systems integration
- Advisory support and recommendation of network improvements



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The 2014 COMET Executive Summit

November 5 - 7, 2014 — San Diego, California

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Pipeline continues its legacy of bringing together the world's leading service providers and technology innovators this fall at The 2014 COMET Executive Summit.

This exclusive event is gathering key executives from the world's leading operators with key technology developers and enterprises in an intimate symposium to explore the latest trends and challenges in communications and entertainment technology (COMET).

The COMET Executive Summit is a flexible, highly interactive format that is filled with unprecedented networking opportunities designed to build relationships that can be carried forward to solve the issues and challenges facing service providers and industry today.

Register today to stay on the edge of topics to be covered at the COMET Executive Summit, such as:

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- Delivering and assuring digital services
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Sigma Systems and NDS

Orchestrating New and Unified Entertainment Experiences

Upgrading traditional offerings and deploying new hybrid/IP 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 new revenue.

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. Sigma Systems provides the service orchestration for the necessary authorizations, entitlements and provisioning of NDS systems for subscribers through a single OSS solution – managing video conditional access rights, entitlements for premium content, VOD, DVR/PVR and also provisioning IP set-tops and residential gateway devices.

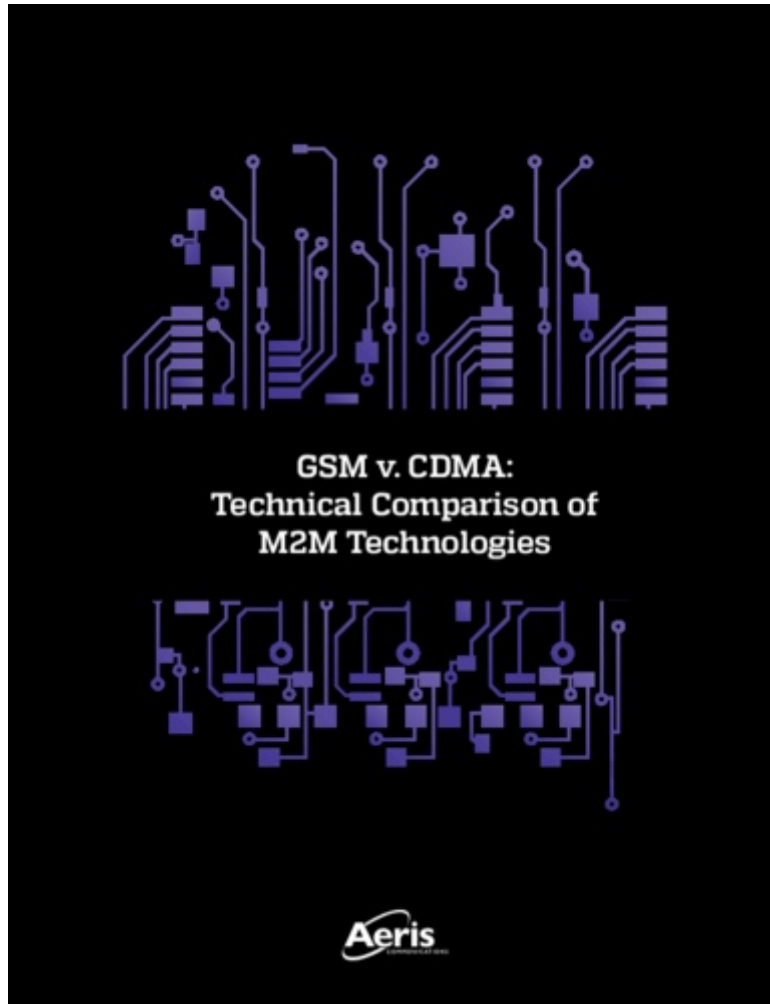
TV Anywhere Authorized to Enable Multiple Devices

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® iPad®. 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 entitlements.

Effectively Migrate Subscribers from Standard to Premium Entertainment Packages

Delivering new entertainment experiences to subscribers doesn't have to involve an immediate and costly video network evolution. Sigma Systems empowers service providers to leverage existing video networks in order to move beyond linear for services such as digital TV, PPV, VOD and DVR/PVR through support for next-generation IPTV IP video platforms, like NDS, on a single integrated OSS service management platform. 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 churn.





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