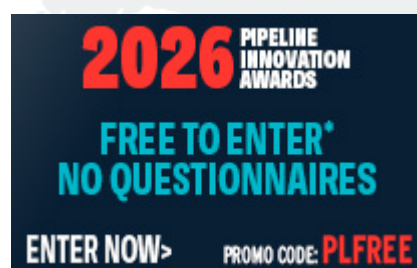


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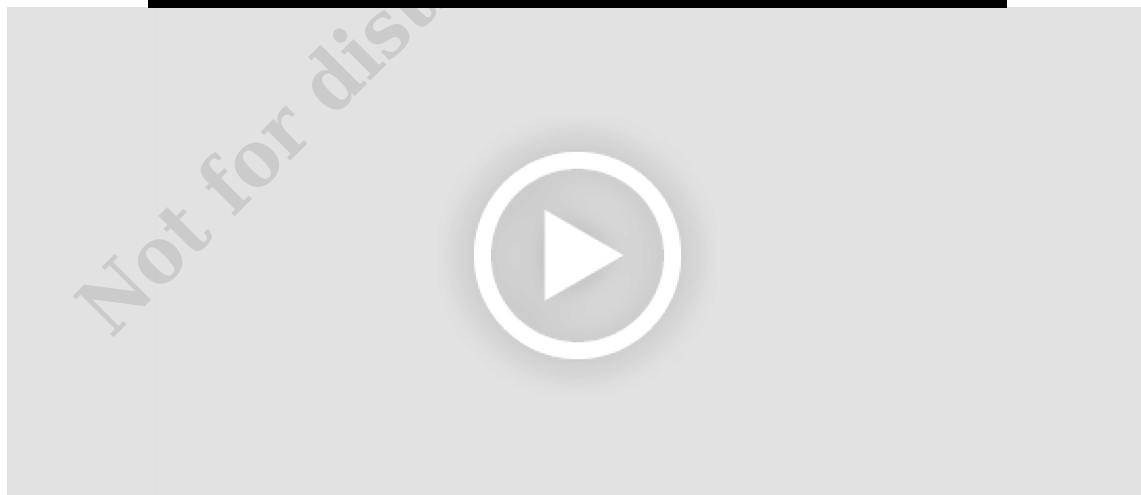
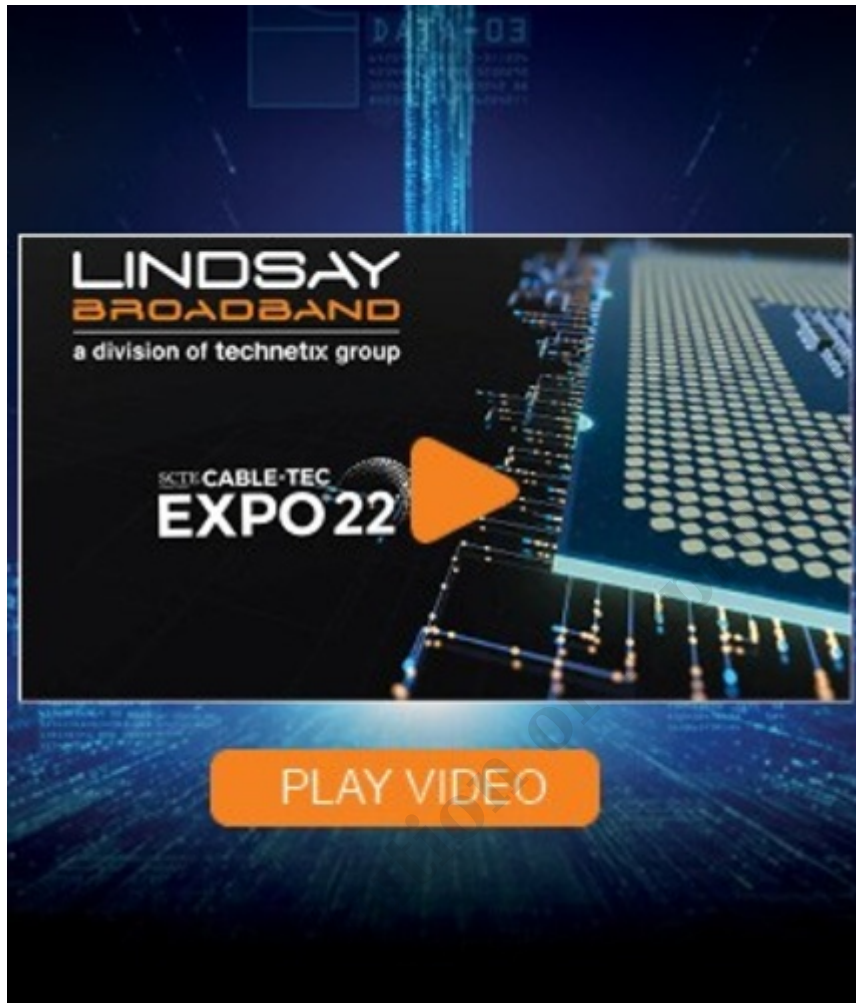
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**Oracle Announces AI Assistant
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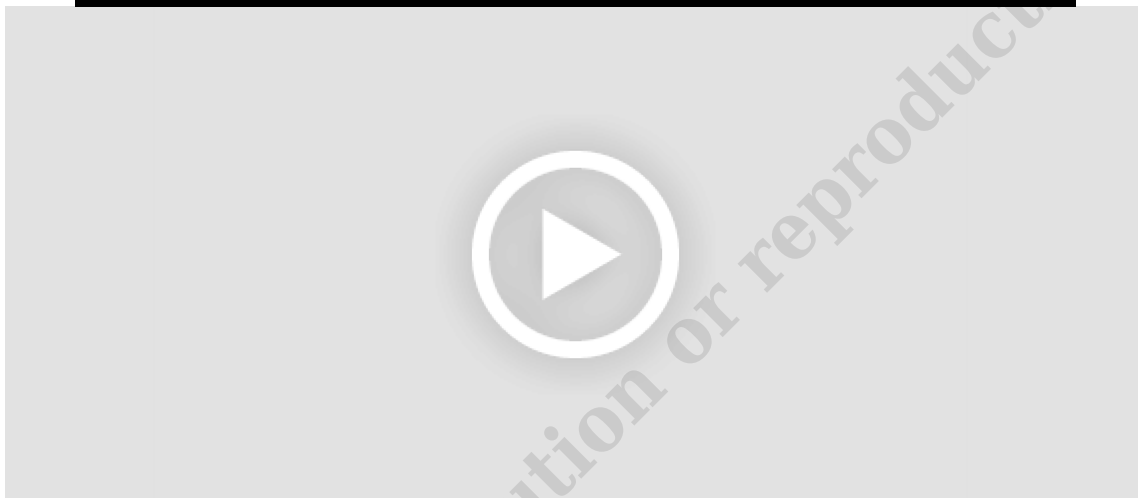
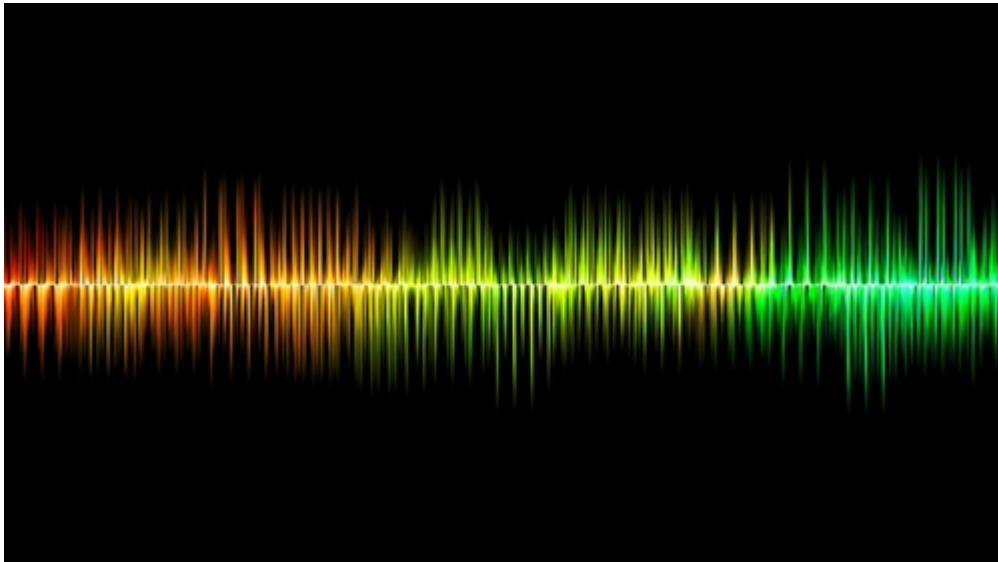
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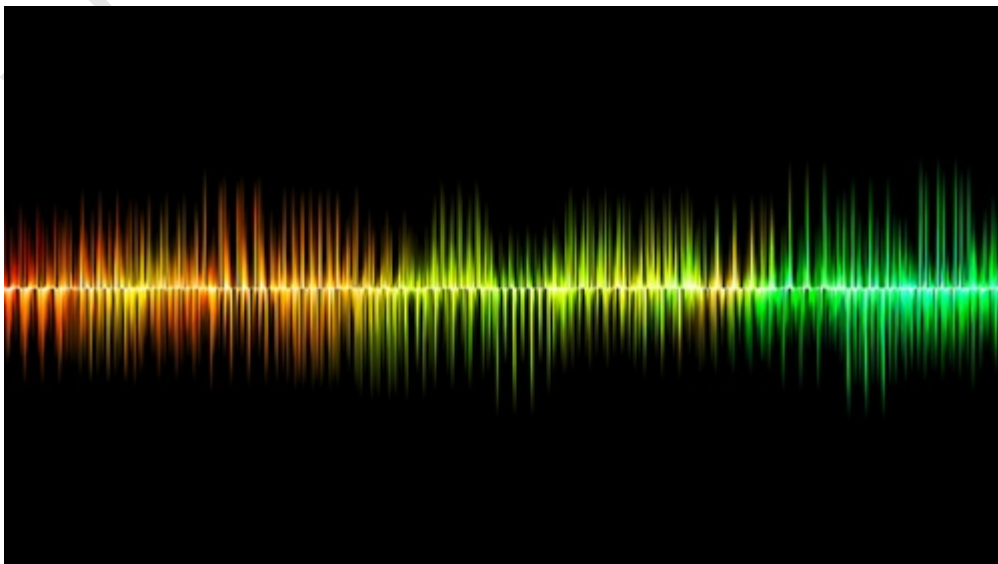
End-to-End Solutions for Broadband Networks

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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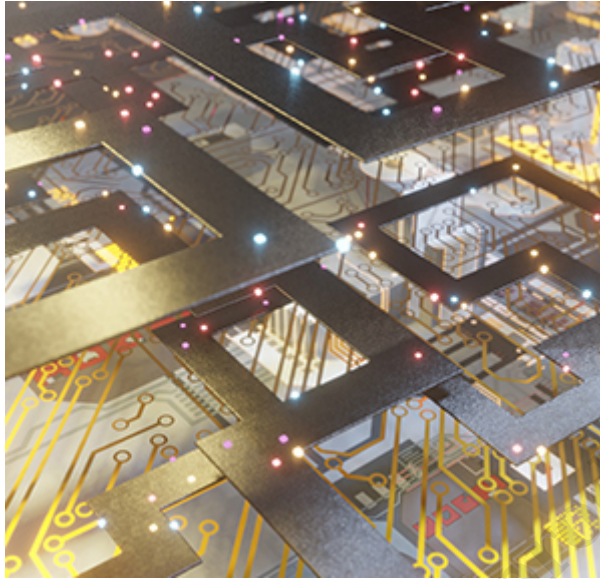
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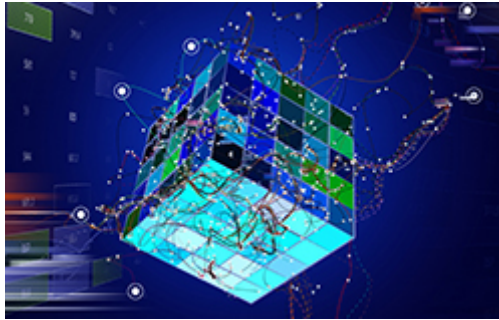
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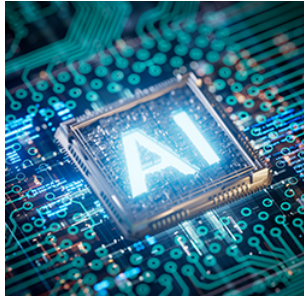
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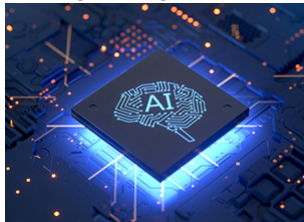
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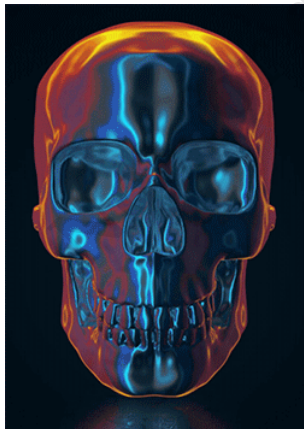
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outsmart the fraudsters

ever-growing complexity of telecom fraud

Telecom fraud is constantly evolving as fraudsters are finding new ways to convert from using your networks. Whether it is subscription fraud, Warez, PEX banking or international Revenue Share fraud (IRSF), it can be difficult – even for experienced fraud managers – to guard against the latest attack methods.

Although great strides have been made in not giving fraud across the industry, fraud managers and consumers need to remain vigilant in their pursuit to keep the fraudsters at bay.



the ripple effect

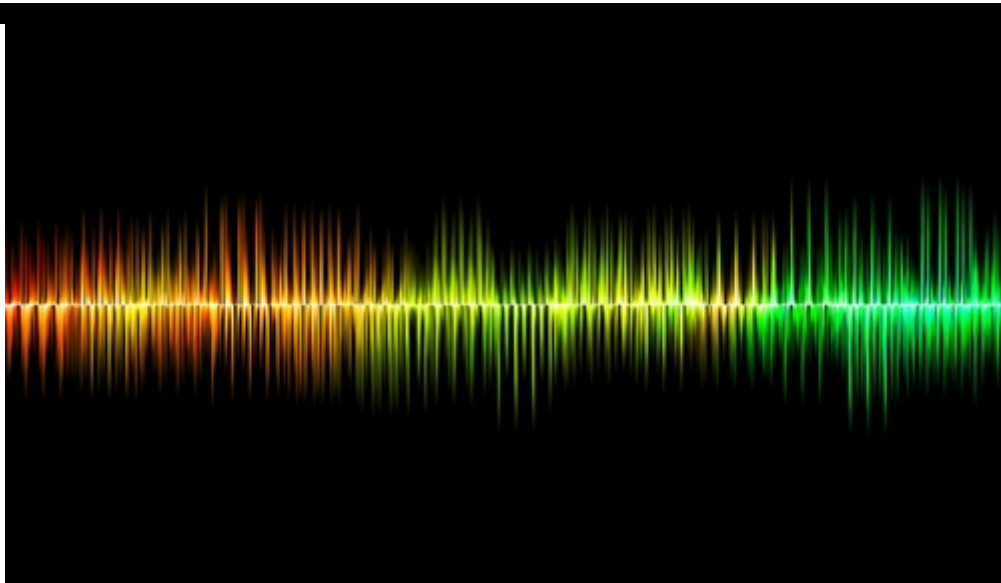
The CICA 2017 Annual Fraud Loss Survey estimates that \$29B is lost to fraud each year. Of course, the actual cost is a lot higher due to the collateral damage to your brand reputation, organizational efficiency and customer satisfaction.

In the highly competitive telecom marketplace, you are focused on creating and launching innovative services to differentiate yourself from competitors. Each technology and service adds a new series of opportunities for fraudsters to infiltrate your network. To combat this, your security and fraud strategies need to remain subscription services ahead of the latest techniques. For instance, detecting fraudulent numbers before connecting the call requires a collection of calls to premium and unallocated numbers as they are happening. The good news is that with high-quality purchasing data you can proactively protect your business from being the unwitting victim of new attacks and/or inefficiency.

staying one step ahead

Even for the savviest fraud managers, outsmarting the fraudsters requires enhancing existing platforms and systems. This gives you added intelligence to identify fraudulent and potentially risky numbers if it is brand new to your network, which allows you to prevent misuse and improve risk management. Comprehensive solutions also allow you to proactively block calls to fraudulent numbers and perform targeted management of inbound traffic for call strings.









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Wireless	LAN/WAN

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Headend/Hub
Network Ops Center
Outside Plant
Switching Center
Customer Premise
APOP/Data Center



We identify and implement infrastructure solutions that meet your technical needs, timelines, and financial requirements!

CHR understands that traditional communications isn't just Voice, Data, and Video services anymore. Knowledge and expertise of current and emerging technology is our business, and our staff is experienced in applying those technologies to replace revenues that are eroding under pressure from changing demographics and competition. We don't provide a quick fix, we partner with you every step of the way and work to provide long-term solutions.

“

CHR's designs build better in comparison to other Engineering companies.

— a Utility Construction Vendor

Who Are We, You Ask?

CHR is a leading provider of engineering, billing software, and managed services for communications service providers. Our legacy was built by providing comprehensive services to the independent and rural carriers for all of their network and business needs. We have taken that knowledge and created specialized programs, most notable being Outside Plant, FTTx, wireless, access equipment, network and switching design. Our industry experts help clients grow revenue and reduce cost through operational efficiencies and enhanced customer experience.

Our Experience Is Your Advantage

- 75+ years of service to broadband providers
- Professional Engineers certified in 44 states
- Surpassed 2 million FTTx passings designed
- Secured over \$2.5 billion in private and government funding
- Completed over 300 RUS loan designs; helping clients acquire Federal funds
- Prepared applications and design engineering for 50+ RUS/FOC-funded projects

Why CHR?

CHR provides holistic program and project management and has the experience and success to deliver overall network deployment projects. We are an industry leader with intimate knowledge of large and small broadband providers, including power coops, telcos, and cable. Our Infrastructure Engineers and Project Management resources are experienced in construction, which heavily influences our design methods, resulting in lower build costs.

CHR can deliver a end-to-end solution or a subset of individual projects, such as engineering designs. A project manager will be assigned to work with our subject matter experts to lead your project from beginning to end, delivering all aspects. We take on complete ownership of delivery, including managing all partner agreements and performance.

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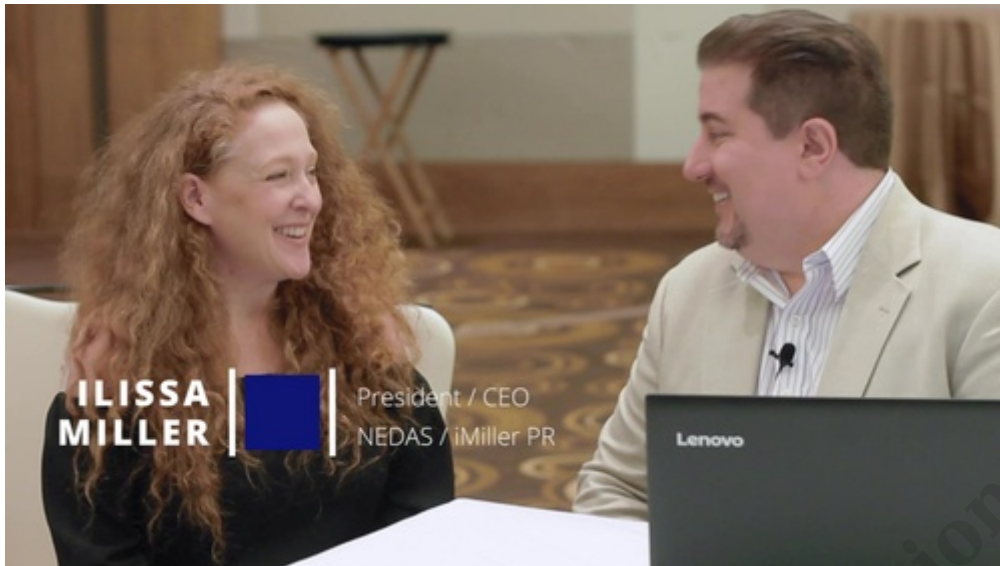
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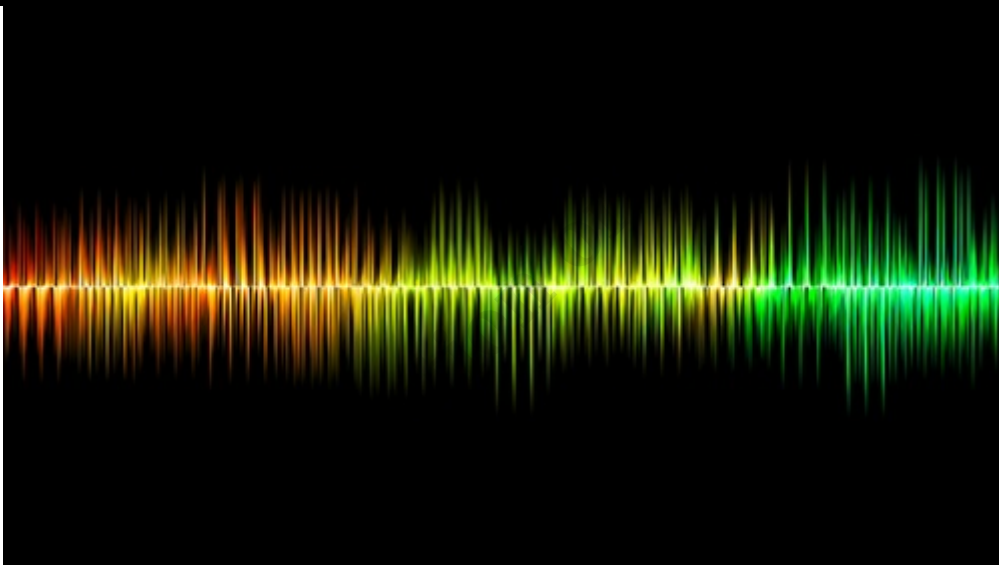
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remain in
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during
regulatory
change



Regulatory considerations are crucial to the success of any communications company. Do you need expert testimony or interpretation of a tariff or FCC order? Perhaps you've worried about OALEA, CPNI and Red Flag compliance, or need a wireless, efficient or interconnection agreement. More importantly, do you need assistance in interpretation and identifying the revenue impacts of the FCC's most recent USF/ICC Reform Order?

CHR's Business Compliance group provides you with the information needed to stay on top of important federal issues affecting small and rural telcos - allowing your business to remain in compliance during regulatory change.

CHR can help you with timely compliance reporting and assist with the implementation of regulatory requirements. CHR's FCC Report provides crucial information on key regulatory issues affecting your day-to-day business operations. Our Business Compliance group provides state and national regulatory services and implementation services associated with regulatory requirements. The Business Compliance group works with regulatory commissions, legislative bodies, and national and state associations to help develop and implement telecommunications policies.

Services provided by our Business Compliance group includes:

- Revenue and billing assurance
- Municipal franchise and rights-of-way agreements
- Preparation and filing of FCC/state reports
- Bundling and pricing of services
- Switched and special access pricing, rating, and audits
- State and federal USF funding requirements
- USF compliance filings
- ETC compliance filings
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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® 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.



THE EMC SOLUTION FOR SERVICE ASSURANCE

Transform Healthcare IT with an application-first approach to IT management



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Virtual Data Center Visibility

- Unified management of physical and virtual IT environments

Configuration Management

- Coverage across networks, storage, and servers

Identify and Act

- Advanced root-cause analysis for separating symptoms from problems

THE FOCUS OF IT OPERATIONS

"The goal of IT operations is to enable the business to operate more effectively, more efficiently, and with lower risks and costs...In short, IT operations isn't about bits, bytes, and bare metal; it's about enabling business leaders to do what they do best: run the business."

IT Partner-Fay Issues for IT Operations Management, 2013

ENSURING HEALTHCARE SERVICES AND APPLICATION PERFORMANCE

As a CIO or IT leader of a Healthcare company, you have a tri-fold charge:

- Ensure applications and IT services are delivered consistently and at the highest possible levels—because that's what the business and end users care most about.
- Fully understand and effectively manage your IT service delivery environment, so that service levels to the business can be met or exceeded, ongoing operational costs are minimized, and problems—when they occur—can be resolved rapidly with minimal impact.

CHALLENGES TO TRANSFORMING IT

Moving applications to the cloud makes service assurance anything but easy. Factors such as the dynamic nature of a virtual data center (VDC), the rapid pace of IT change, lack of operational visibility and insight, and ineffective problem management make providing service assurance more of a long-term goal than short-term reality for many IT leaders. They need answers to critical management questions, including:

- How can I ensure applications and IT services are delivered consistently and at the highest possible levels?
- How do I understand risk conditions and business impact so I can prioritize my team's actions?
- How do I monitor, isolate, report on, and prioritize fault and performance problems more effectively and efficiently?

IT MANAGEMENT THAT ENABLES SERVICE ASSURANCE

Fully understand and effectively manage IT service delivery, and, in turn, provide service assurance to the business with the EMC® Solution for Service Assurance.

- Virtual Data Center Visibility
- Configuration Management
- Identify and Act

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WHITEPAPER, BY ROBERT MORRISON



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