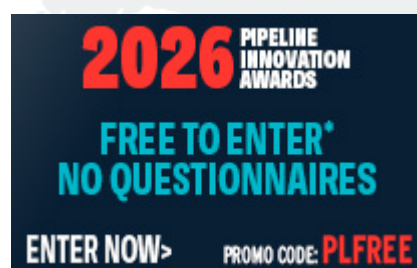


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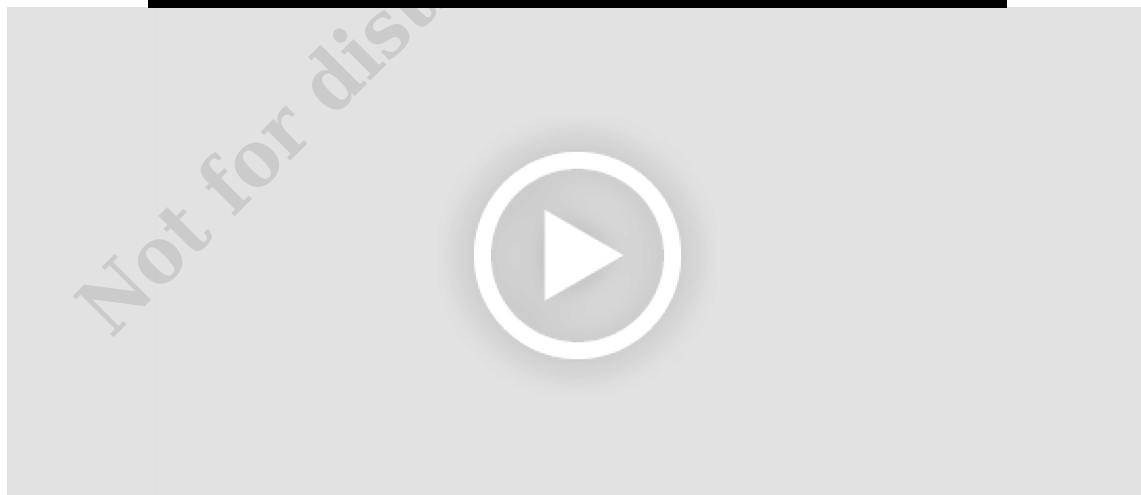
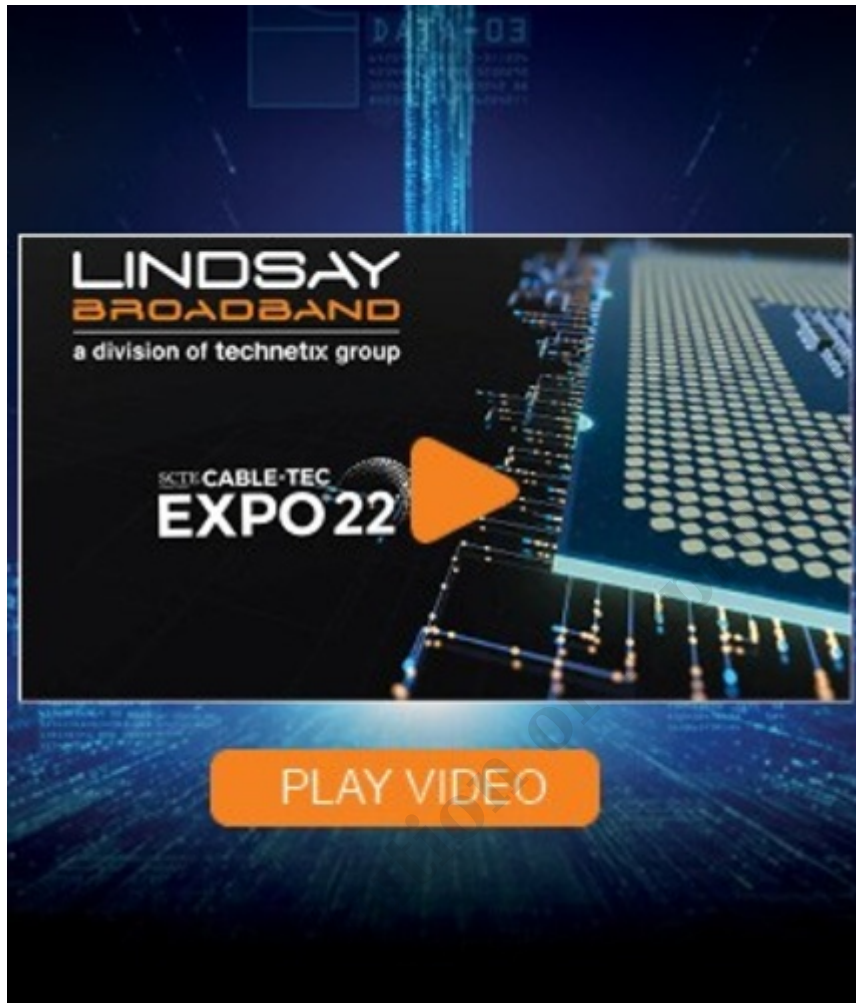
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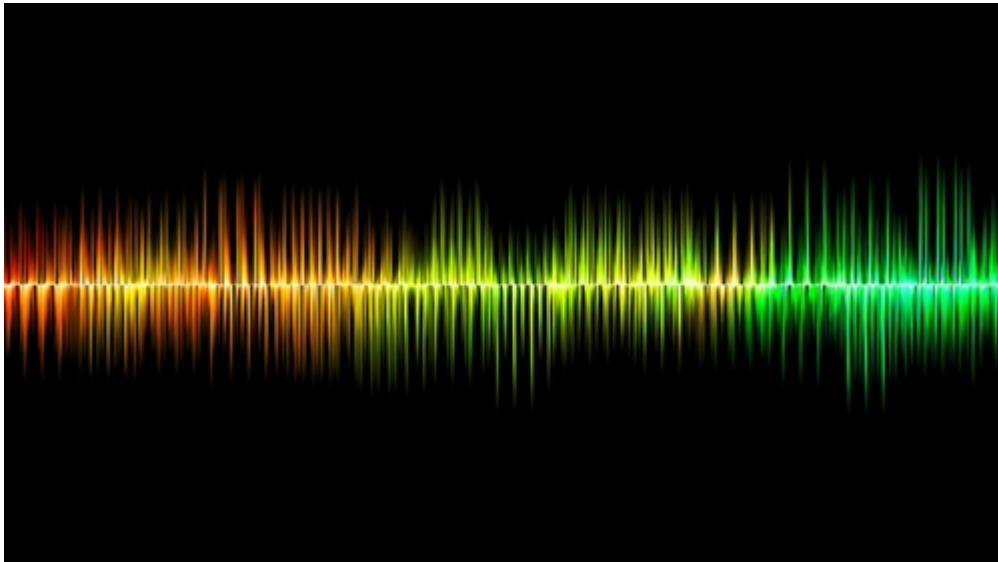
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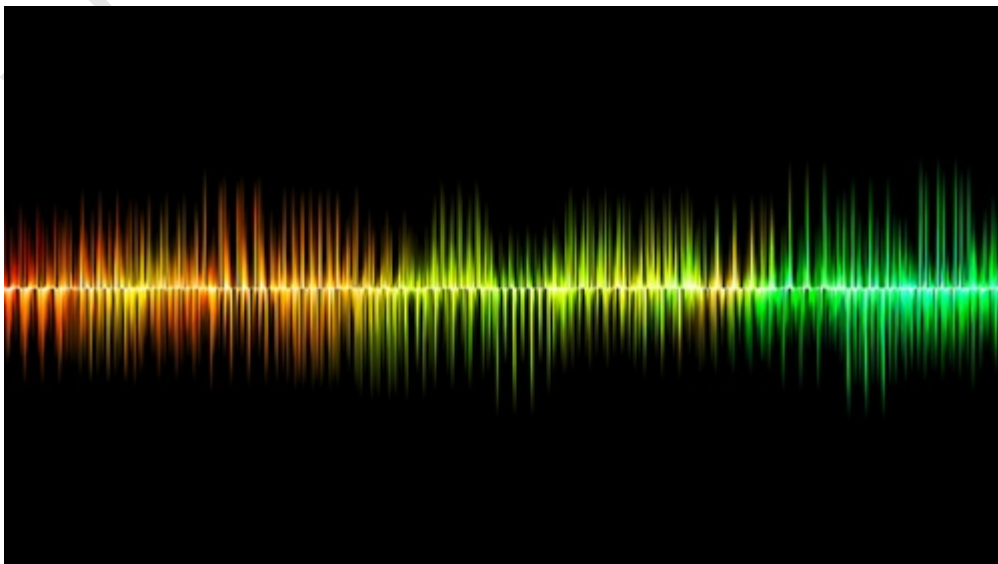
End-to-End Solutions for Broadband Networks

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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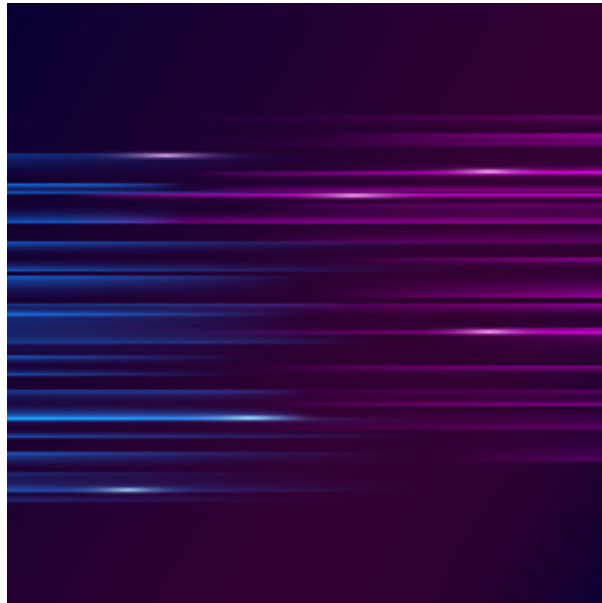
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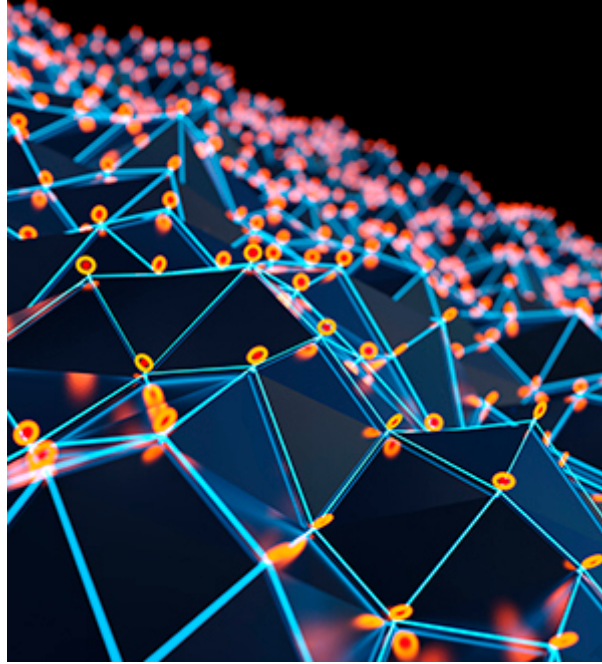
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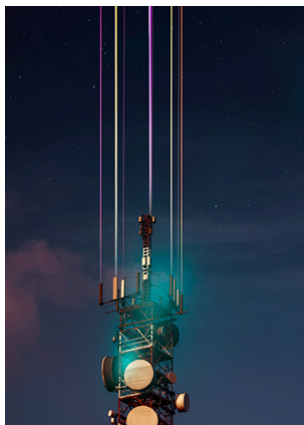
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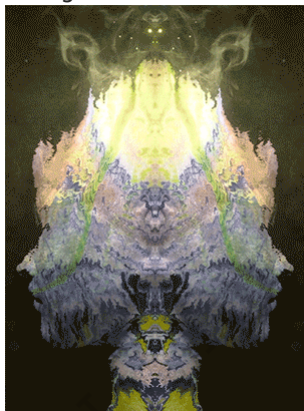
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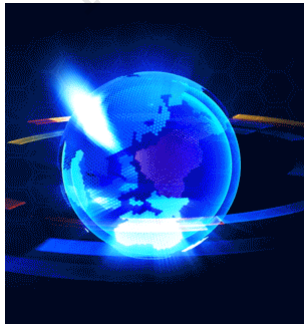
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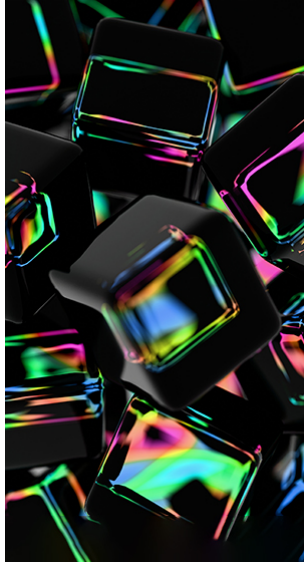
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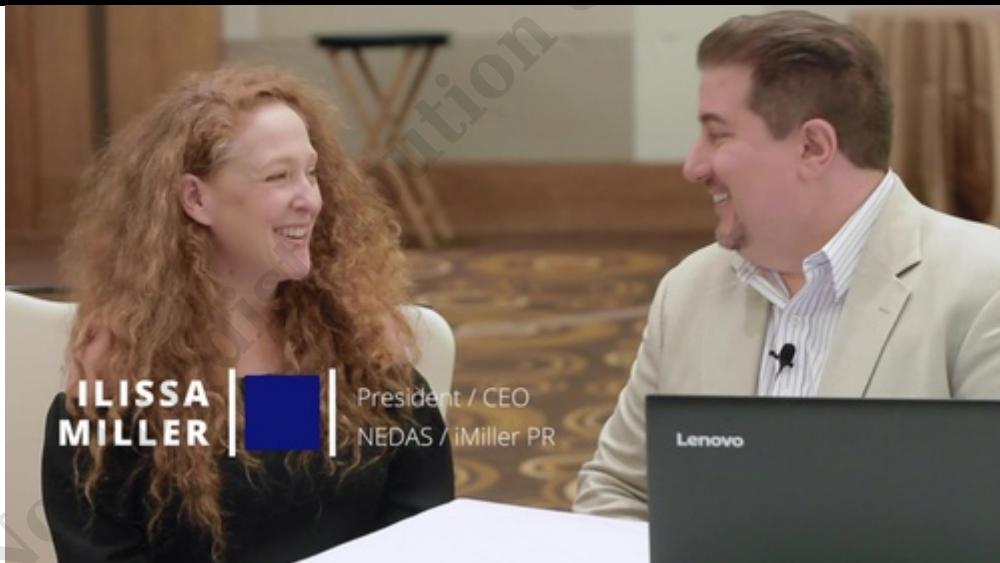


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Microsoft .NET Framework 3.0
Customer Solution Case Study



Customer: GreatCall Inc.
Web Site: www.jitterbug.com
Customer Size: 100-500
Country or Region: United States
Industry: Telecommunications
Partner: Info Directions Inc.

Customer Profile
GreatCall Inc., based in Del Mar, Calif., is a national mobile network provider and the creator of Jitterbug, a cell phone designed for and marketed to Baby Boomers and their parents.

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Cellular Provider Manages Sizzling Growth with .NET System for Operations and Billing

"By implementing these new IT solutions, we were able to keep up with our tremendous growth and provide the services that our customers expect and deserve."

Ray Marks, Chief Operating Officer, GreatCall Inc.

GreatCall and its Jitterbug cell phone and service experienced blazing growth. Jitterbug's existing billing and operations systems were unable to keep up. After implementing the Info Directions' CostGuard® XG operations and billing system, a product built on a Microsoft .NET framework, GreatCall averaged faster processing times than the previous system's best time, reduced the billing process time to less than two days and handled soaring growth.

Business Needs

GreatCall, Inc., of Del Mar, California, is a mobile virtual network operator (MVNO) that developed a cell phone and service targeted to Baby Boomers and seniors. Its offerings proved so popular that the company was experiencing enormous growth on a monthly basis. GreatCall's patchwork system of internally developed and off-the-shelf products for order entry, ratings, receivables, collections, customer account management and other operations simply was overwhelmed.

Service levels suffered at all times and the company's ability to add new customers and get phones into its customers' hands was severely hampered. Simultaneously, the company wanted to exploit its new national retail partnerships, which required efficient logistics programs. Leadership understood that it needed an automated system if it was to avoid the fate of other MVNOs that had crashed under the weight of their own "solutions" for lack of back-end systems that served their needs.





From wireless to wireline networks, CHR has the insight and expertise that empowers the services connecting customers and communities. We stand ready to partner with you on all your project needs—from concept to construction. Whether you're deploying new networks or launching next-generation services, from funding to field services, CHR is with you every step of the way.

CHR's Connected Services provide the platform for next-gen networks and brings them to life. Our expertise in execution enables IP evolution—guaranteeing improved network reliability and scalability to support the services that maximize ARPU, reduce churn and generate new revenue while achieving regulatory requirements and reducing CAPEX.

Network Analytics: Turn Big Data into Big Opportunity

*Seven Steps for Network Operations, Marketing,
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Enterprise Customer Experience Transformation with
e-billing and e-care

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CSP ENTERPRISE PRODUCT MANAGEMENT: THE SOLUTION TO ORGANIZING THE FACTORY AND THE STORE

A model for getting organized

In running a retail store, there are some basic principles that everyone understands about products and inventory. For a start, the Sales staff rely on knowing exactly what they have to sell – what is in stock, what options are available and to whom, what the lead times are for special orders, etc.

Purchasing needs the same information to know when to source additional stock to match customer demands and to find suppliers that can deliver.

And Marketing and Product Management need to know which products are doing well, which ones need refreshing or retiring and where to focus their next product campaigns and development ideas.

The common thread across these departments is the need to service the customer with the right products.

To that end, the idea of product is at the center of the retail universe. The retail business is all about procuring, marketing and selling products, with business success clearly linked to product success. Retail success is therefore heavily dependent on factory supply – the product design, build, warehousing, and distribution tasks associated with making the products the retailer wants to sell.

Communication Service Providers (CSPs) certainly share the same challenges of the physical product retailer, especially when it comes to determining and then supplying the products that customers will find attractive and want to buy.

There are a few important differences for a CSP, given the fact that CSP products are mainly service offerings that they often supply themselves. Services are not lined up in boxes on shelves. Services are not shipped from distant factories whenever stocks run low. Still, services *are* products. They must be designed, manufactured and packaged.

The underlying service delivery capability must be in place before the services can be delivered, just as the factory – for the retailer's product must be operational before a retailer can expect to have that product to sell. And like any other products, services are subject to supply limitations – their delivery is constrained by network and systems capacity and capability, and by the ability of the organization to manage the delivery and support of those services.

With this dual role as Wholesaler and Retailer, CSPs have all the same requirements as an automotive company for the manufacturing, management and supply of products, on a day-to-day basis as the orders flow in from the customers and on a longer term basis as products are created, delivered, and eventually retired. But while everyone in most any CSP company understands the primary importance of products, too many CSPs continue to mishandle products across this chain in a fragmented and uncoordinated way. They simply do not have either the day-to-day or long term viability of their products that is essential for profitable performance.

Cloud Connectivity Management Made Simple: Your Cloud Services Are As Good As Your Network

Bruno Giguère, Advisor – CTO Office, EXFO

INTRODUCTION

Cloud services are the Holy Grail for service providers. As enterprise customers look to reduce IT expenses, cloud services are looking more promising than ever in terms of achieving these savings. Although multiple stakeholders are increasingly involved in the delivery of cloud services, none have as much impact as cloud carriers.

But first, let's start with a simple question: "What exactly is cloud computing?" According to the definition recently published by the National Institute of Standards and Technology (NIST), "Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction." The document further elaborates on its definition by providing a list of essential characteristics, in addition to service and deployment models. The essential characteristics are: on-demand self service, broad network access, resource pooling, rapid elasticity and measured service. A definition for each characteristic is provided in the following [NIST publication](#). By applying a network view of these characteristics, it becomes immediately clear that a static and classic network is not able to deliver on these promises. An intelligent and dynamic network is mandatory to delivering on these essential characteristics.

Cloud transport connectivity can be described as the connectivity between cloud consumers and cloud content. This connectivity makes delivery of cloud computing services to the cloud consumer possible. In order to deliver this type of connectivity, cloud carriers need high-performance services with multiple classes of service and high availability.

Cloud application connectivity can be described as the connectivity between the computing resources via different data centers. For cloud application connectivity, services must be high performance and be available at all times.

This application note discusses the technologies being used to deliver the different type of connectivity, and the management steps (e.g., activation, performance monitoring and troubleshooting) required to successfully deploy cloud computing services.

GOT CONNECTIVITY?

To deliver cloud computing services, cloud providers must possess the computing infrastructure necessary to process and store very large amounts of data, and rely on cloud carriers to connect all the pieces together. This section covers the different types of connectivity used to deliver cloud computing services in more detail, and also covers the technology used to achieve this connectivity.

Cloud Transport Connectivity

The original connectivity strategy for cloud computing was the Internet. What better a solution than the most ubiquitous WAN technology to access data centers? Although the Internet is great for consumer applications, it lacks the attributes mandatory for enterprises: security, network performance, data governance and regulatory compliance ([NIST CS1](#)).



Figure 2. Current challenges in cloud service delivery.
(Source: Metro Ethernet Forum)



Figure 1. Cloud connectivity.

Figure 1 shows the data flow for delivering cloud computing services and the two types of connectivity required, as follows:

1. Cloud transport connectivity
2. Cloud application connectivity

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Brochures

IP Video Services Accelerator

Sigma Systems' IP Video Services Accelerator is a robust solution enabling cable service providers to extend video service offerings to deliver an enhanced and unified entertainment experience.

Without a doubt, the enhanced entertainment experience over IP video networks is emerging as the "next big thing" for service providers as over-the-top (OTT) content, Internet video and 3rd party applications continue to threaten customer loyalty. Gone are the days of just delivering traditional video offerings as cable service providers begin embracing the opportunity to create new business models and deliver an exciting, personalized multi-screen experience to subscribers. But without the proper supporting service fulfillment foundation, the accurate delivery of this experience is a significant challenge for cable service providers.



Simultaneous Linear & IP Video Provisioning & Support

The IP Video Services Accelerator provides a service fulfillment solution that simultaneously provisions and supports both linear and IP video networks to deliver digital TV, PPV, VOD, DVR/PVR, Internet Video, OTT content, and 3rd party applications. This unique integrated OSS service management solution eliminates operational silos and provides seamless order management, provisioning, and entitlement management across all technologies, services, and systems.

Simplify All-IP Video Migration

By supporting a hybrid linear and IP video network that provisions all video services, the IP Video Services Accelerator gives you the ability to simplify and implement a logical migration strategy from legacy to all-IP video. You can manage this migration at the pace of your business and benefit from the flexibility to migrate in stages, by managed service area, network segmentation, and even customer profile. With the IP Video Services Accelerator you can rapidly launch enhanced entertainment services and migrate linear video subscribers to a common OSS back-office solution when your business is ready.



Whitepapers



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



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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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**DATA DRIVEN. RESULTS ORIENTED.
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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.

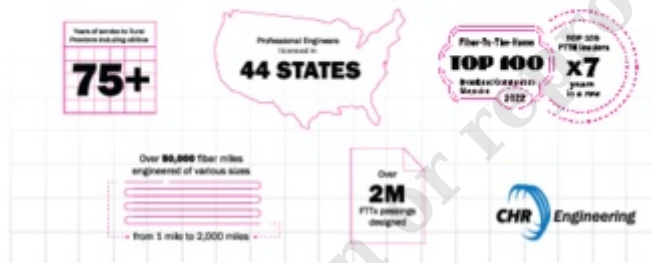
CHR Solutions has the technology and the expertise to help you make informed decisions that enable you to get the job done efficiently, on budget and on time. From feasibility studies to network design to construction, we partner with you every step of the way to optimize your operation and increase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

Our Experience. Your Advantage.



Digital transformation, which is the key for higher agility, efficiency, cost reduction and improved customer experience, is inevitable for CSPs to survive in the new digital economy. However, large-scale digital transformation projects are expensive and risky and may take years to complete. Meanwhile, agile competitors are eroding your market share. Speed to digitalization is imperative.

Why Etiya's Digital Business Platforms??

Etiya Digital Business Platforms, unlike legacy BSS, will create real value for your business. They do not only provide technical capability, but offer an infrastructure to create an all-digital customer experience, with the personalization and flexibility demanded by Connected Customers. All this in a matter of months, while ensuring business continuity and, at the same time, reducing traditional BSS costs.

Advanced technology to enable better customer focus

Etiya's AI expertise and platform capabilities are used to differentiate the BSS platform via better customer insights, more personalized customer experiences and increased process automation. Knowing your customers' behaviour and needs allows personalized customer interactions and service targeting, and supports smart decision making during the customer journey, that will ultimately drive both customer and employee efficiency and satisfaction.

Etiya uses innovative AI technologies, including natural language processing (NLP) techniques and predictive analytics in its platform to help companies transform their businesses and reduce costs.

Modular, flexible, cost effective and scalable digital solutions

Etiya Digital Business Platforms are 5G ready, agile, end-to-end, and fully virtualized digital platforms. They are cloud-native, full-stack platforms that are pre-integrated into partner solutions and include all Etiya's product portfolio: Customer Relationship Management (CRM), Customer Service Management (CSM), Configure, Price, Quote (CPQ), Product Catalog, Order Management, OmniChannel Management, Billing and Charging and API gateways. They support both B2C and B2B customer segment operations.

Since the platforms use a modular, API-driven architecture, they are flexible. CSPs can select to launch a full-stack new BSS platform, to replace their legacy platform, or modernize it step-by-step, by choosing which platform components they want first and add new solutions, as needed, later.

Its cloud-compatible implementation significantly reduces up-front CapEx, and all this enables fast implementation and a cost-effective digital transformation. And easy scalability also means, that the costs grow as the business grows.

Etiya real-time, automated digital platforms use microservices to speed time-to-market for new products and enable easy experimentation with new business models and service concepts.

How does it work?

Etiya Digital Business Platforms contain three main layers: Experience, Engagement, and Enablement. Data analytics, AI, and business intelligence functions are used to add intelligence to these layers and enable personalization, process automation, and efficiency.

Etiya Digital Business Platform Solutions			
Digital Experience	Online self-care, E-commerce, Mobile App, Content Management	Open APIs	Data Analytics, AI, Business Intelligence
Digital Engagement	CRM, CPQ, Offer Management, Rewards & Loyalty, Community Management, CSM, Recommendation Engine, Order Management		
Digital Enablement	Product Catalog Management, Charging & Rating Management, Billing Management, Partner Management, Policy Management		

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DATA SERVICES OVER 25 YEARS, 150,000 MILES OF DATA

SAVE money on data services
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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.

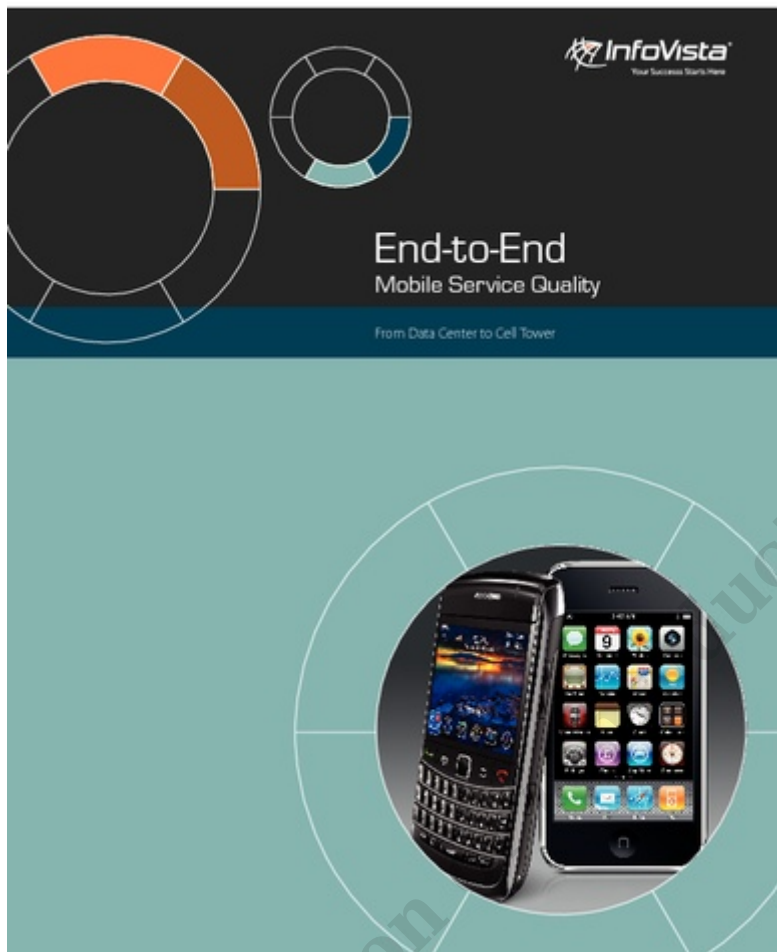


DATA TRANSFORMATION

In a complex data cleansing 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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Omnia360™ (powered by Microsoft Dynamics® CRM)

product bulletin

Next Generation Billing and CRM

Omnia360 transcends traditional billing and relationship management with a complete 'out-of-the-box', pre-integrated customer relationship management and billing solution. Available as a fully-hosted cloud-based solution, managed service or on-site license subscription, this next generation solution empowers communications service providers (CSPs) with a client-centric model for service differentiation and rapid deployment of new services, especially within the Enterprise space.

Leveraging Microsoft Dynamics® CRM, Omnia360 best-of-breed software platform delivers a comprehensive, turn-key back office solution for CSPs to monetize the largely untapped revenue opportunities.

Centralized Customer Management

Omnia360 provides a holistic view of your customers. Within a single screen, service providers can view all billing, accounts receivable, orders and service details. The solution helps drive operational efficiency by empowering you to create custom fields, enforce business-specific rules, and even integrate third-party applications with simple point and click customization.

Dynamic Product Catalog

Omnia360 delivers a dynamic, centralized product catalog enabling the selling and fulfillment of next generation products and services such as cloud services, productivity solutions, unified communications and Voice over IP products—all while enabling traditional voice, video and data products. This unlimited product hierarchy capability helps optimize sales accuracy while reducing the time it takes to complete the entire lead-to-cash cycle.

Powerful Business Analytics

It is critical for management to be able to monitor business performance. With Omnia360, management maintains a single scorecard that covers sales, marketing, and customer service. This up-to-the-minute information provides inline charts with drill-down intelligence to visually navigate data, identify trends, and uncover new insights.

Market Leading CRM

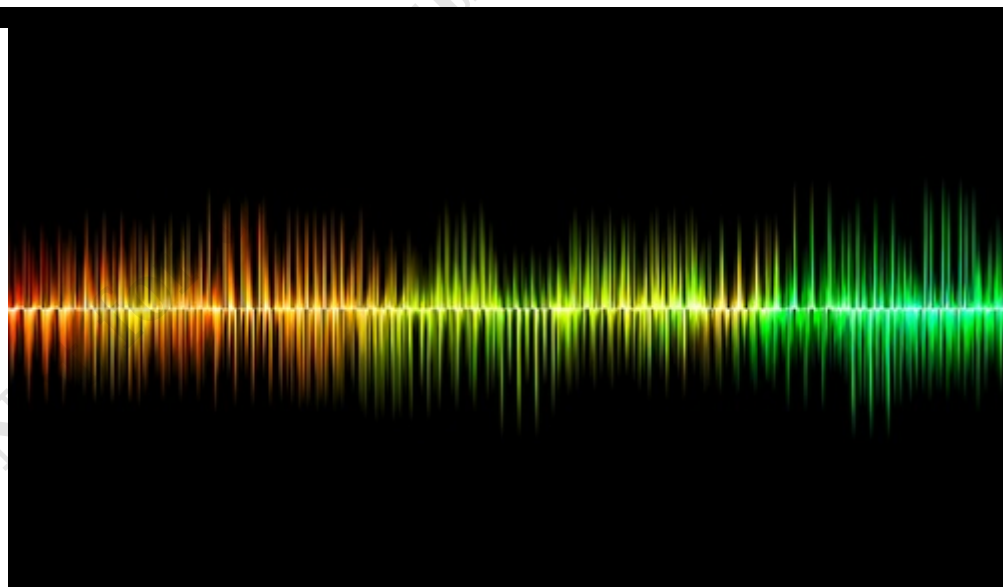
Combine the familiar Microsoft® Office fluent user interface with powerful CRM software to maximize marketing effectiveness, win more sales, and enrich customer service interactions. Leveraging the power of Microsoft Dynamics® CRM, marketing and sales professionals are equipped with flexible segmentation tools, simplified campaign management capabilities, lead-to-cash visibility, real-time sales forecasts, and much, much more. Customer service specialists are empowered with tools that simplify case management, streamline escalations, improve knowledge sharing, and enable more effective account management, all while helping to contain service costs.

- **Improve Monetization Opportunities**
with a unified customer view and increased pipeline visibility
- **Simplify Business Systems**
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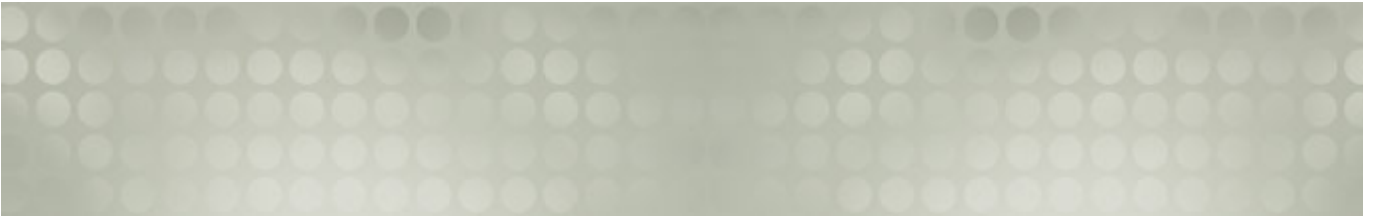
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