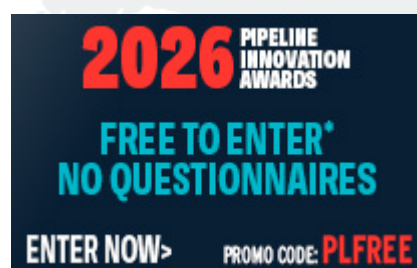


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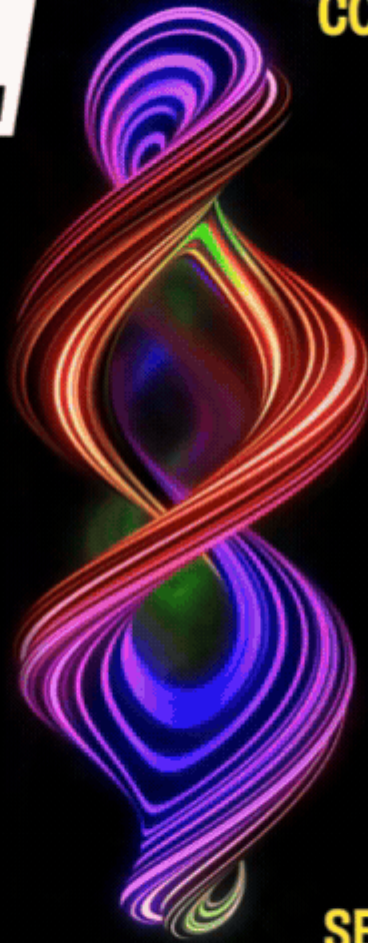
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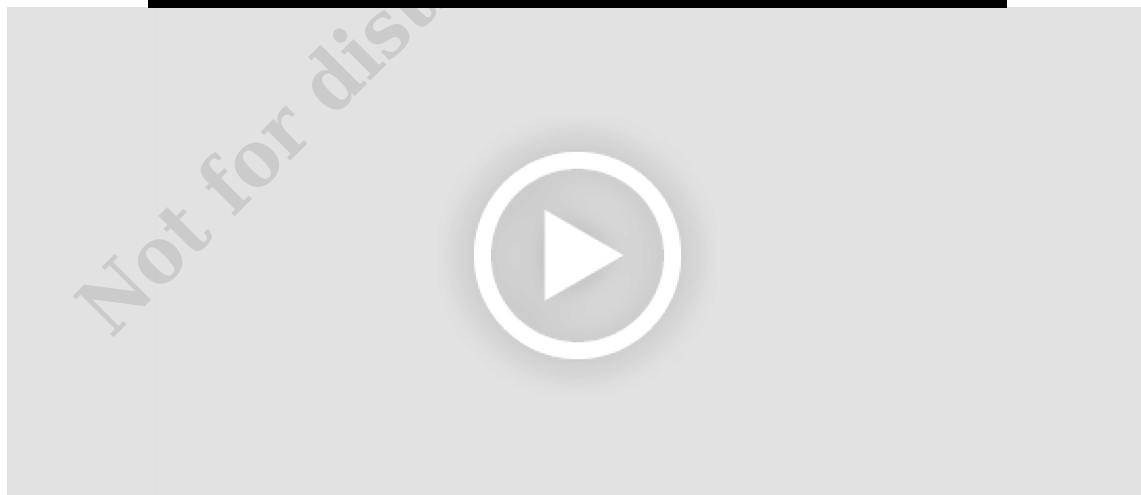
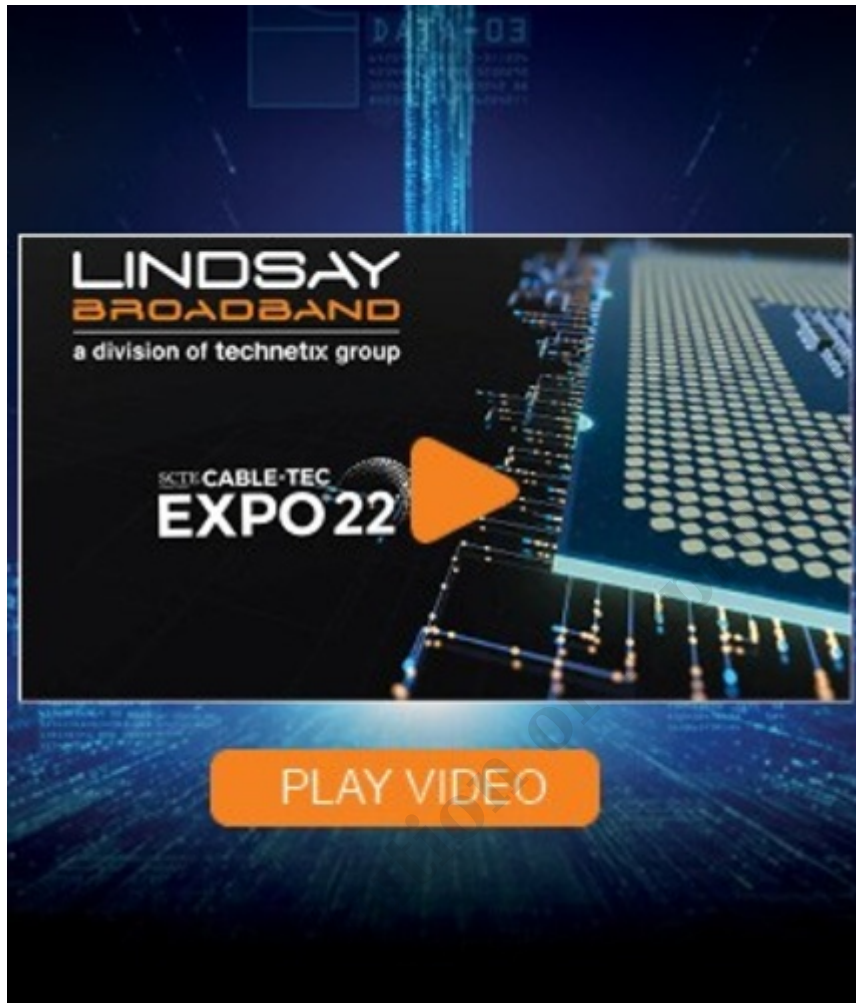
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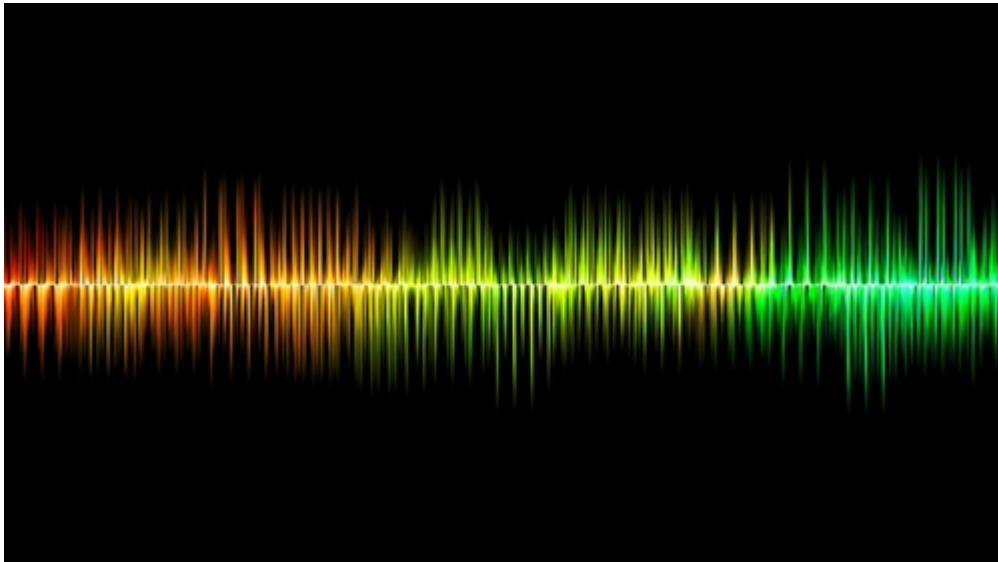
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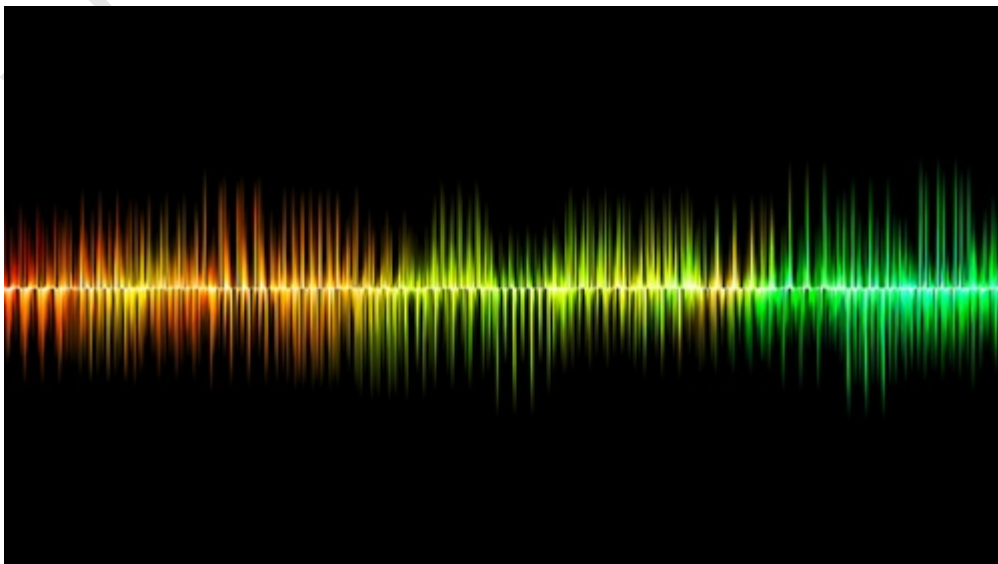
End-to-End Solutions for Broadband Networks

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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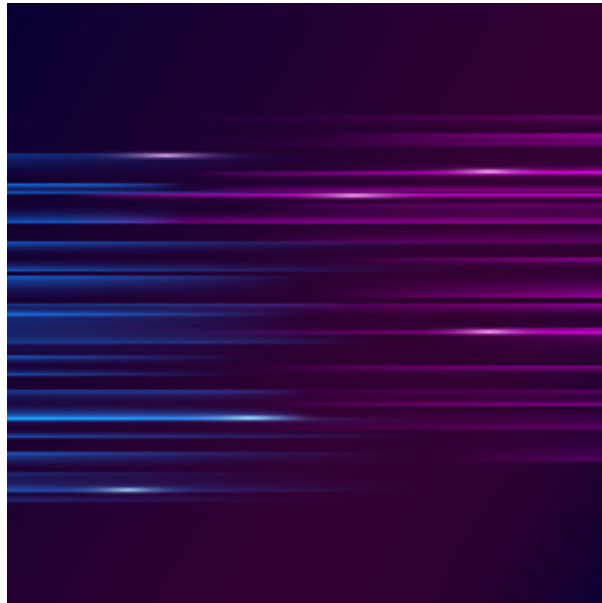
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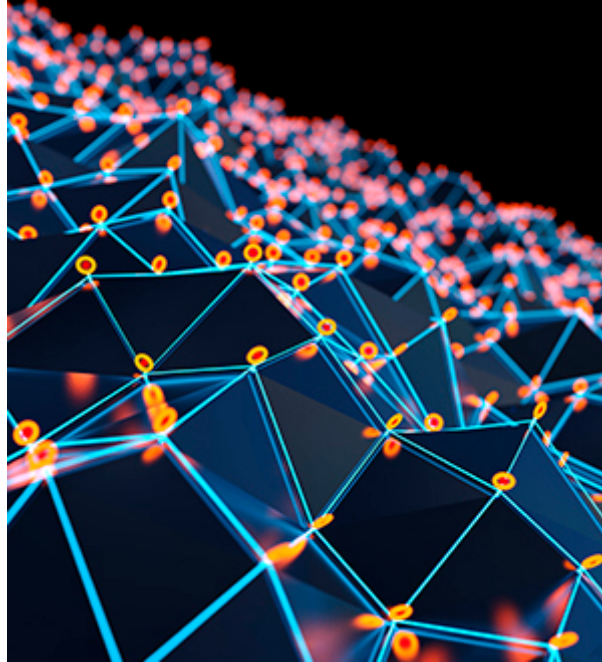
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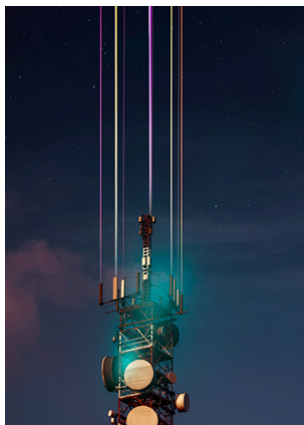
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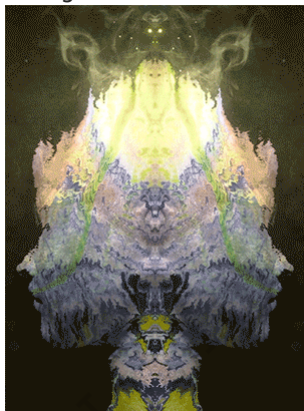
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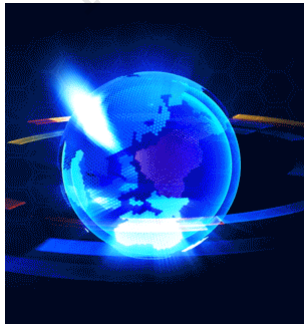
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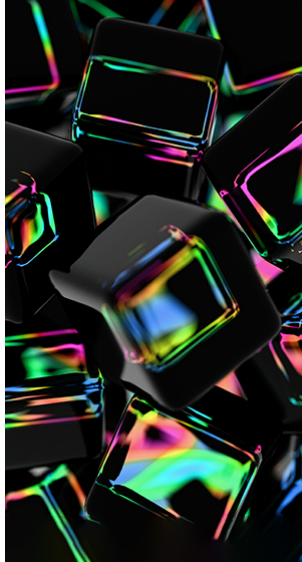
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DIFFERENTIATE, ACCELERATE & DRIVE PROFITABILITY

MATRIXX ONLINE CHARGING

The Need for Speed and Real-Time

Everything is moving to real-time. Consumers want ubiquitous connectivity and instant access to applications, media, information and social networking. In today's diverse communications marketplace, there are a number of factors that are driving service providers to interact with subscribers in real-time:

- Increased adoption of prepaid services and payment methods
- B2B Shock prevention and spend control
- Third party content and applications
- 4G and LTE network rollouts

As these forces create a new Telco 2.0 marketplace, three trends are apparent: IP networks are the de facto standard. The usage events from these networks and the services that run on them are growing exponentially. Service providers need to interact with subscribers in real-time to deliver the exemplary customer experience and control required in the all IP environment.

As these trends converge, network bandwidth becomes a coveted asset where the return on investment needs to be maximized. This can be achieved through the shaping of subscriber consumption with a subtle combination of segmented pricing models, service class options,

personalized offers and subscriber policies. Get it wrong and the customers will head to the call center or even churn. Get it right and you've created an informed, dynamic relationship with the subscriber, turning bandwidth usage threats into opportunities and delivering an individual and compelling customer experience.

Service providers are challenged to keep up with subscribers' growing appetite for real-time-based services, keep their competitive edge, and keep costs and operational expenses from spiraling out of control.

MATRIXX Online Charging Empowers Operators to Meet the Real-Time Challenge

MATRIXX Online Charging helps service providers meet the challenges of the Telco 2.0 market by providing the industry's fastest, most efficient real-time charging application.

MATRIXX is the only real-time charging solution that can provide the scalability and speed needed to move to an all real-time world, while providing an extremely low and predictable Cost Per Transaction (CPT).

MATRIXX Online Charging delivers sophisticated real-time rating and discounting capabilities, giving operators the edge to differentiate, personalize and successfully compete.

Its extreme performance supercharges operators to accelerate their service offerings and easily scales to cost-effectively manage surging network traffic.

Its stability and efficiency drive increased profitability by providing operators with predictable and measurable costs so that service profitability is determined and ensured before services are launched.





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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

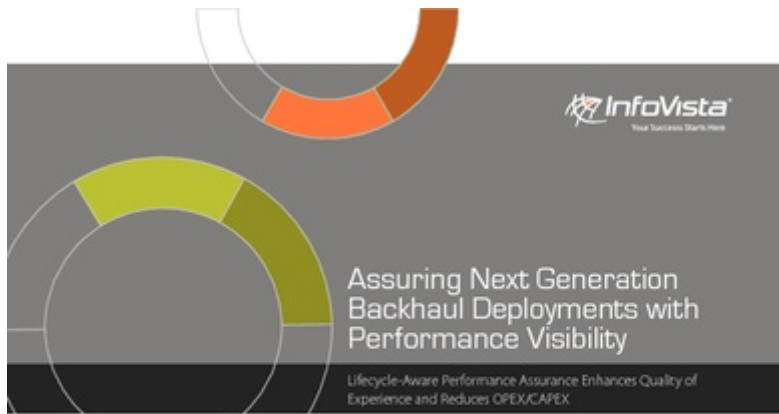
Combine the familiar Microsoft® Office fluent user interface with powerful CRM software to maximize marketing effectiveness, win more sales, and enrich customer service interactions. Leveraging the power of Microsoft Dynamics® CRM, marketing and sales professionals are equipped with flexible segmentation 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.

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with consistent customer interactions

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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 commit fraud using your networks. Whether it is subscription fraud, Winging, PEX hacking 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 reducing 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 CHCA 2017 Annual Fraud Loss Survey estimates that \$29B is lost to fraud each year. Of course, the actual cost is far higher due to the collateral damage to your brand reputation, organizational efficiency and customer satisfaction.

In the highly competitive telecommunications marketplace, you are focused on creating and launching innovative services to differentiate yourself from competitors. Each technology and service added creates new opportunities for fraudsters to infiltrate your network. To combat this, your security and fraud strategies need to remain robust to stay several steps 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 routing data you can proactively protect your business from being the unwitting victim of new attacks and criminal activity.

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 carry fraudulent and potentially risky traffic even if it is brand new to your network, which allows you to prevent revenue loss and improve risk management. Comprehensive solutions allow you to proactively block call to fraudulent numbers and perform targeted mitigation of inbound traffic for call strategies.

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Telco Triple-Play Service Fulfillment

Prepared by

Alan Breznick
Senior Analyst, *Heavy Reading*



www.heavyreading.com

On behalf of



www.sigma-systems.com

December 2010

Whitepapers

Testing the Cloud

Mark Sylos, New Technologies EXFO Service Assurance

INTRODUCTION

Broadband, backbone and mobile wireless service providers see the cloud as an opportunity for growth. New applications running in the cloud drive new traffic to their network. The cloud also offers new revenues from new services that can be sold to customers. The business models for carriers and how they relate to the cloud are evolving quickly, but one fact is becoming clear: to achieve success in the cloud market, carriers must actively ensure that they offer a high quality of service to cloud consumers. The best way to assess cloud quality is to test the cloud.

A cloud is a shared computing platform available over the network used to run a variety of business or personal applications. The concept is hardly new; it has roots in service bureaus, outsourced data centers and utility computing. What makes the cloud work today is the rise of the web browser as a thin client that allows individual users to run any application, the wide availability of high-bandwidth networks, and virtualization technologies for computers, storage and networking. The cost savings, expanded reach, and improved quality gained by running an application in the cloud is proving to be a business success, as shown by the growth of cloud services into a market worth billions.



Figure 1. Cloud players: cloud users, cloud consumers, cloud providers and cloud carriers

Cloud services are sold to cloud consumers who have a business need. To meet that need, the cloud consumer deploys an application to be run in the cloud for a user community. The cloud itself is driven by cloud data centers that provide an environment for running the application. The data centers provide servers, storage and

networking. User access to the cloud data centers is provided by cloud carriers. The cloud provider manages the cloud data centers and their servers, storage and networking. The carrier manages the interconnection between the user and the cloud data centers. The application may be owned and managed by the cloud consumer or the cloud provider.

The quality of the user's experience depends on both the carrier and the cloud provider. Together, they determine how well the application serves its users. The carrier manages bandwidth, latency, reachability, loss and other network key performance indicators (KPIs) that affect quality. The cloud provider manages process or utilization, storage, switch utilization and other resource KPIs that affect quality. But the KPIs that describe the quality of the service (QoS) provided to the consumer and the user are web download times, service availability, data delivery times, and other KPIs that are tied more directly to the service sold to cloud consumers. These service-oriented KPIs cannot be measured by any one actor; together, they either are determined by the business relationship between them, if they are independent, cloud carriers offer SLA guarantees to cloud providers. Cloud providers in turn offer SLAs to cloud consumers. If the carrier owns the cloud provider, then the single organization can offer the service-level agreements (SLA). These SLAs are one factor driving carriers and providers to test the cloud.

Actor	Definition
Cloud User	A person or organization that uses and benefits from the cloud.
Cloud Consumer	An organization or person that buys services from the cloud provider to use or run an application.
Cloud Provider	A person or organization that provides a cloud service.
Cloud Carrier	A communications service provider that provides connectivity and transport between users and the cloud or within the cloud.

Table 1. Cloud actors

In this complex business environment, carriers have strengths. First, they own the network that connects users to the application running in the cloud. Second, they provide the circuits that connect cloud data centers to the Internet and each other. Third, they can provide the security and privacy customers want through dedicated circuits or virtual private networks that isolate one customer's traffic from another's. Finally, they know how to offer a high-quality service backed by the guarantees of an SLA.

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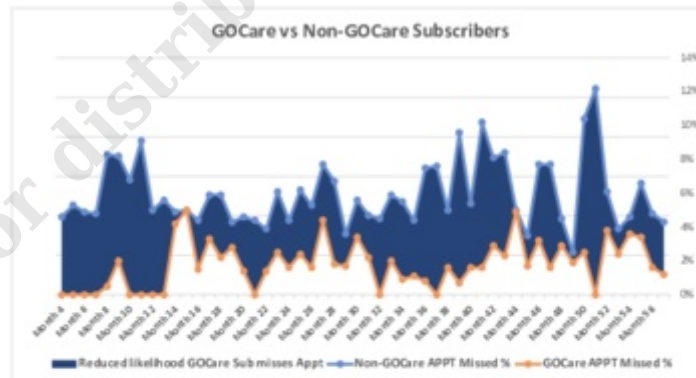
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Missed Appointment Analysis



When possible, it makes sense to compare the behavior of a customer opted in to GOCare vs customers that are NOT opted in to GOCare. Prior to the GOCare deployment, this operator averaged roughly 8% - 8% of subscriber appointments as "no access". AFTER the GOCare deployment, GOCare subscribers were routinely below 2% of subscriber appointments as "no access" or 70% fewer missed appointments for GOCare subscribers. As the opt-in rate increased, GOCare was successful in dramatically reducing the overall missed appointment rate. At an estimated \$150 cost per truck roll, the savings in missed appointments more than covered the cost of the GOCare offering.

Potential OpEx Impact:

Missed Appointment Analysis: Calculate an estimated 8% missed appointment KPI monthly, multiplied by an assumed \$150/truck roll. A 70% reduction in missed appointments represents an EBITDA improvement of significant revenue annually.

In addition to the savings of OpEx, assuming the "no access" improvement applies equally to new installs, the improved completion ratio will **accelerate revenues** at improved margins.

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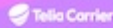
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DELIVERING BROADBAND WHERE MOST WON'T

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IS YOUR GLOBAL WAN DEVOPS FRIENDLY? SD-WAN: USE CASE



TELIA CARRIER'S SD-WAN SERVICE HELPS DRIVE NETWORK AGILITY AND CONTINUITY TO SUPPORT THE ENTERPRISE ADOPTION OF DEVOPS.

ENTERPRISE DEVOPS

Enterprise DevOps journeys are diverse. Some journeys start due to existential risks, some due to a significant need to cut costs, and others begin with big investments to unlock new business opportunities. Whatever the reason, for large global enterprises, embracing DevOps is a transformative cultural technology journey. Focused on agility and continuity of delivery.

SD-WAN: BOOST AGILITY

SD-WAN provides an opportunity for enterprises to build, control, and manage an intelligent overlay network for better integration with cloud and internet environments. Through application awareness, automated policy control, zero-touch provisioning, and other value-added services, enterprises can implement a modular and smart networking architecture to operate faster.

INTERNET: GUARANTEE CONTINUITY

Modern enterprises should build internet-scale operations and manage distributed, globally accessible applications and cloud services that are critical to the DevOps flow and set of practices based on continuous experimentation and feedback loops. Telia Carrier's SD-WAN service will help enterprises avoid persistent internet underlay problems. We offer a choice of internet access services that provide high-bandwidth, dedicated connections to reach specific sites, applications, and cloud services around the world.

THE OVERLAY AND UNDERLAY: A FUNCTIONAL BOND

A sustainable alignment between the internet underlay and the intelligent SD-WAN overlay will bear the potential to optimize network stability and performance while scaling flexibility for DevOps deployments.

Data generated by DevOps pipelines can traverse our internet backbone network with fewer hops compared to other internet service providers. We directly connect more than 50% of the global internet routing table, making us the world's best-connected internet backbone network.

PARTNERSHIP: CULTURAL FIT

Technology partnerships are critical for building the right DevOps environment. We understand that enterprises expect flexibility, responsiveness, and expertise from us. We ensure customers are always close to the technology of SD-WAN with no unnecessary layering in between.

We help accelerate DevOps journeys with better internet access and a structured tiered onboarding process to help customers deploy a functioning SD-WAN solution and experience a multitude of benefits.

TOP 3 DEVOPS NEEDS

TEST ENVIRONMENTS

Using zero-touch provisioning DevOps can have a new secure connection for testing environments within minutes.

CI/CD PIPELINE

Deploy applications in minutes, on any platform, with consistent user experience.

AUTOMATION

Automation of manual networking tasks helps DevOps on their own automation journey.

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Use Semantics to Deliver Flexible Service Management and Avoid the Risks of OSS/BSS Transformation



by Arildam Sankar | April 2009

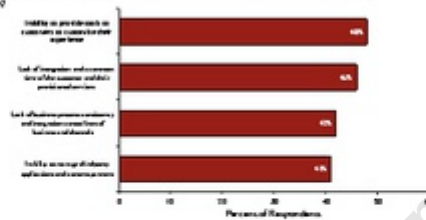
Executive Summary

The customization and convergence of services across application silos and disparate networks are critical to communications service providers (CSPs) aiming to provide innovative services, reduce customer churn and drive average profitability per user. CSPs realize that providing innovative services is not enough; it is critical to offer end users customized services with consistent and flawless quality of service (QoS), which is impossible without an end-to-end unified customer- and service-level view. This is where most service providers falter. Our research clearly points out the glaring problems that exist with most service providers' back-office OSS/BSS systems, which are typically complex, disjointed and lack the agility necessary to present a coordinated 360-degree customer-centric view. In a recent global CSP survey conducted by Yankee Group, more than 60 percent of surveyed global CSPs agreed that improved customer experience is directly linked to improved ARPU.

Most service providers take a top-down approach to express customer and service views. However, they often adopt a service model that in most cases does not capture the complexity of misaligned as well as heterogeneous underlying infrastructure. Only when the relationships among underlying systems, services and customers are mapped out of the infrastructure is it possible to achieve the goal of traditional service modeling. Therefore, what is needed today is a bottom-up approach that looks at how existing systems map to existing customers instead of a more traditional top-down approach.

CSPs have invested billions to streamline and modernize their OSS/BSS infrastructure to achieve the agility required to see all of their assets in one view, which in most cases has failed to deliver the desired service-level transparency. Exhibit 1 illustrates the critical factors inhibiting CSPs from being competitive and delivering innovative services to customers. Not surprisingly, the inability to have a common view of customers, lack of customized service delivery and business process inconsistency are the top factors that hamper as service providers from rolling out innovative services.

Exhibit 1:
Critical Factors Inhibiting CSPs from Being Competitive and Delivering Innovative Services
Source: Yankee Group, 2009



In light of current economic challenges, it is clear that telecom service providers are squeezing their capex budget to align with lower revenue growth expectations. Hence, although a unified end-to-end service model remains on top of their priorities to instead of full-scale and expensive transformation exercises, CSPs and managed service providers are looking for an alternative low-risk, incremental path toward a unified service model. In this report, we look at CSPs' current operational issues, take a deep dive on a unique, alternate semantics-based approach toward achieving a unified virtual service model, and investigate how such an approach can enable customer centricity by solving the problem of siloed infrastructure data.

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