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Northern Data Group and VAST Data Partner to Deliver Al Cloud

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Orange and Nokia to Accelerate 5G in Europe

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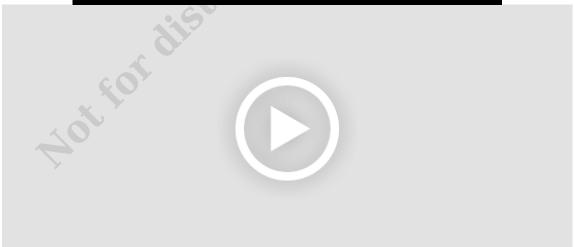
ServiceNow Makes Strategic Growth Investment In InMorphis

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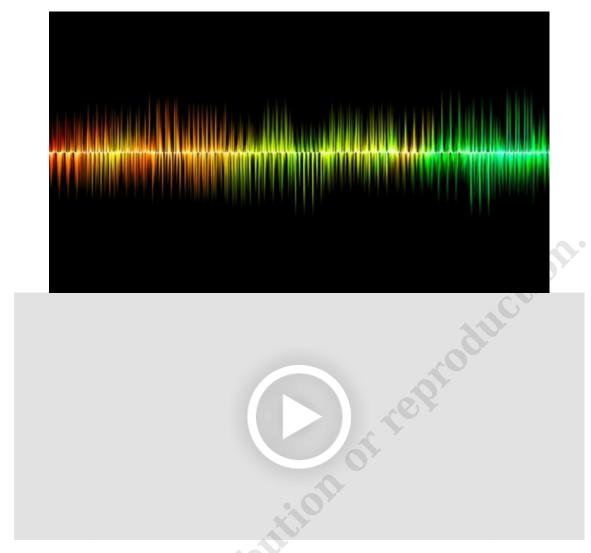
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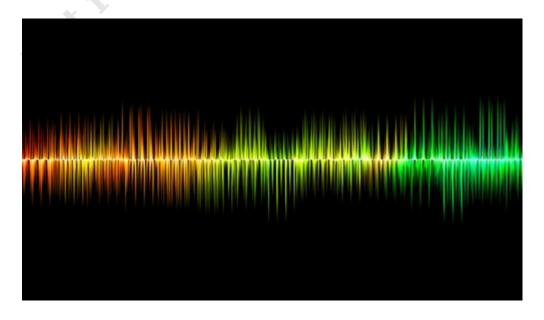
End-to-End Solutions for Broadband Networks

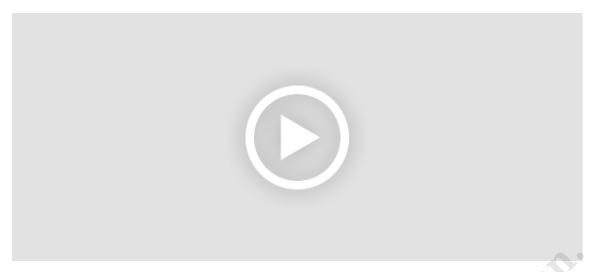
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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.





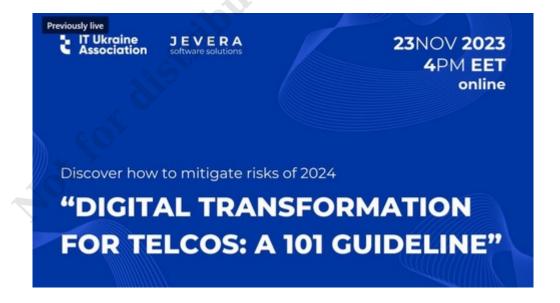
Podcast: The Evolution to 6G

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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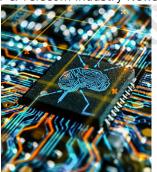
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Navigating the Chaos: Identity Access and Configuration Management Strategies for SDN & NFV





Case Study: MVNO Integration

PROJECT MVNO integration

SITUATION

A converged provider, desiring to offer wireless services to its customers, acquired the regional subscribers of a national provider. This effort required the conversion of approximately 35,000 subscribers as well as the MVNO integration to this national provider to support these customers as well as add new customers.

CHALLENGE
Provide a business-to-business MVNO integration from the first provider's system to other provider's system, with a complex, in-store conversion procedure for handset swaps.

RESULTS

GOL GILSTRIAN

- Cycle30 designed and integrated a complete order to cash business integration to support the MVNO offering
- the MNNU offering

 Solution included direct order-entry integration, provisioning and LNP integration as well as
 end customer and wholesale billing integration and reconciliation

 Conversion process involved a challenging, in-store manual conversion and phone swap with
 an average customer handling time of 35 minutes

 Project finished in six months with a complete system for ordering, provisioning and billing

 35,000 subscribers converted within six-month timeline with less than two percent attrition



FSP 3000 OLS

A versatile and truly open line system

5G and cloud-based applications offer enterprises, carriers and service providers enormous potential for growth. However, this continuous and rapid change also creates the need for more network capacity and flexibility. It's essential to build today's networks on an open, flexible and scalable optical layer ready to accommodate evolving demand and innovation. Featuring a fully modular and open design, our FSP 3000 open line system (OLS) provides complete versatility and best performance in metro, core and data center interconnect (DCI) applications.

Truty open.

Open disaggregated optical networking is one of the industry's hottest trends. By deoxupling terminal functions from the line system, this approach offers complete facilitity to adopt the latest between green and where needed. Our FSP 3000 OLS is truly open, allowing total readom to evotive and optimize each network layer separately. Network operators can investige and expand helicinforchisched in the lecture of the latest indicational contributions with open and standard interfaces, our FSP 3000 OLS exity integrates into software-controlled networks.

Build your own OLS

Our TSP 3000 OLS empowers network operations to create the solution that meets their exact expirements. With a modular achiecture, multiple amplification and multiplesing options, and different chansis size, our TSP 3000 OLS enables customized solutions. Operators can simply mix and match the options of files and applifiers and pack them into the best-fitting shelf. This makes our TSP 3000 OLS deal for any type of network infrastructure.

Future-proof investment.

Cohevent modulation schemes are becoming increasingly diverse to maintile transport network capacity and minimate the cost-peobl of transport. Feedble terminals with variable modulation formats and based state existingly of capacity-week state. The utilinate network performance wises also on line system capabilities, and that's why open line systems have increasingly become important storage causes. With a combination of high-performance features, our FSP 3000 GES transports any cohevent modulation format as well as all surjections any cohevent modulation format and well as all surjections of high-resolution flexified and modular activities on Foldship sparenties a follow-pool GES that can scale and accommodate any modulation format and based state of lexibility with configurations able to support discribed electricologies.

- Open programmable interfaces
- > For any type of network infrastructure

- Flexible footprint

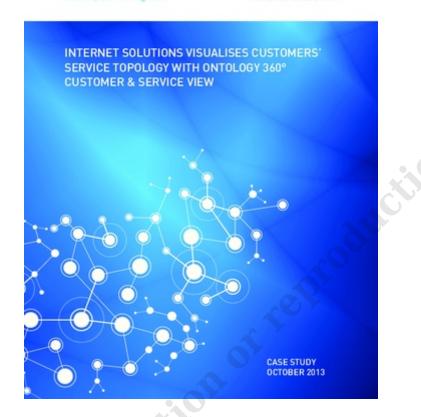






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Customer-Focused Experience Management Must Be an End-to-End Process



by Susan McNeice and Sheryl Kingstone | June 2011

Key Takemens

- The new market making for communications service provide is (CSR) is so transform their business around their customers.
- Yankee Group believes enhancing customers' experience is CSPs' last remaining opportunity for real competitive differentiation.
- Today's CSP operations inflastructure is reither meeting the needs of customers, nor is it as cost-effective as the competitive market requires.
- CSPs must have an end-to-end perspective on customer experience.
- · Intelligent, interactive operations software is key so delivering on this perspective
- Transformation to customer-centric operations requires a process-based overlay to existing operations.

A Good Customer Experience Is Essential in the Connected World

CSPs are experiending pressure for a fundamental transformation due to the hyper-cornergence of connectivity, media, mobility and devices has world where product differentiation feeds to shows term success, castomes contribing is paramount. But untille earlier times, managing customent' experience is not simply a matter of capturing castomer information and order requests. Today's reality requires CSPs to evolve from an operational service stranger to a more castomer focused experience retragement model. This is the only way they can differentiate from the competition as they strive to increase customer loyalty and overall spend.

Likewise, CSPs are grapping with economic and ecosystem challenges, iconic devices such as the Back Serry and iPhone have stimulated customer demand for mon sophisticated social and services, charging their connectivity (Regides, in the past, innocation was constrained by Item Seasure-rich phones with artificious proprietary to specific CSPs. The new world code r, however, is driving thange across consument, devices, deac connectivity and application scorpatoms (see Subbit 1 on the next page).

The Customer Is Now in Charge

Yanise Group first identified the concept of the Anywhere Consumer* in 2007 as a disset of consumers that demands connectivity at the conject thair every attitudy. This point of iden influences their buying behaviors, from the devices they acquire and the services to which they subscribe to the applications they dominate they dominate the devices they dominate the devices they dominate they dominate they dominate the devices they dominate they do not the devices they dominate they do not the devices they dominate they do not the devices they do not they do not the devices they do not they do not the devices they do not they do n

Today, we that per our focus beyond Anywhere to connected experience. This takes customers to a new world of always on connectivity, smarridenics with intuitive interfaces and cloud-based connect and applications, all delivered according to the customer's expecuations, including

- Hore dramels of interaction, e.g., mobile and social networks
- . Immediate delivery of content and applications
- The latest digital lifestyle solutions

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This sustom publication has been sponsored by Progress Software.

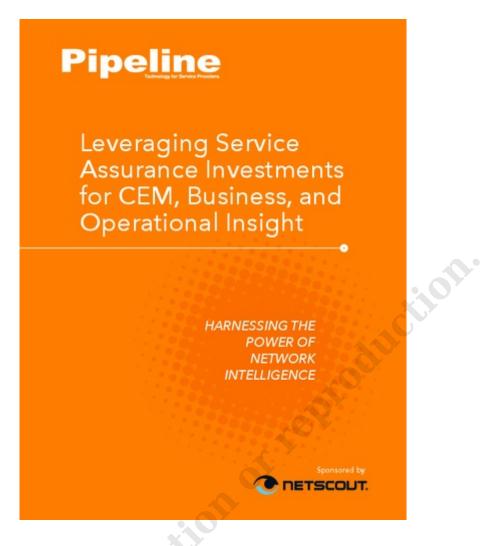
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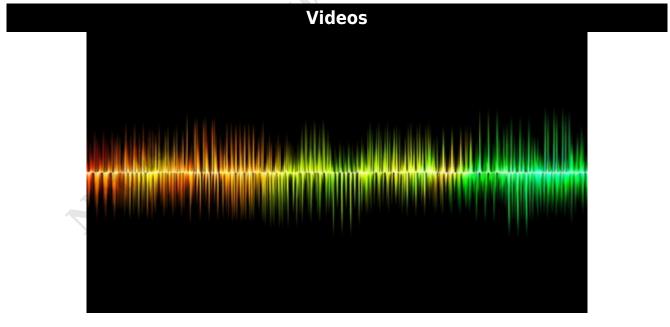


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never underestimate the power of identity

hackers in an increasingly vulnerable digital world

Without crustien, the power of the digital economy permanted hearth averagining welds. Explaing seell beyond of Commerce and inflaming, the connected society includes accelling who homestay, all of which have got of your break a regular part, all our five treaty day. While the convenience a lating the risk can be a arming. These applications of the contain payment and other perhaps the result only the right people we properly child to to access the inflammation of water a censure the inflammation of water to ensure the contain the people we properly child to to access the inflammation of water to ensure the contained of the contained with the contained of the contained of the contained water the contained of the process. (Most under y, making access causer for the cuture of a contained on making it, our or for facultate of

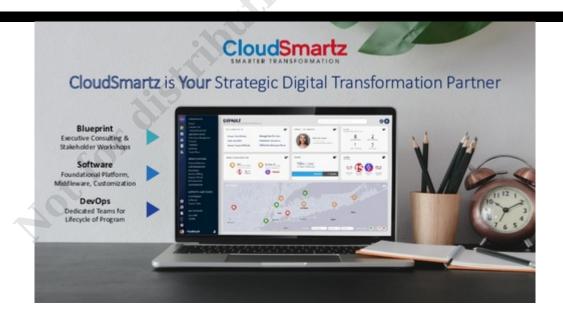
"Hackers can have access to your bank accounts, bitcoin, payment services and many other aspects of your digital life before anyone is the wiser."

According to an article by CB5 News New York*, a woman lost more then SD0,000USD when a fraudster posing as her benk took over her account. The article says the scammer old mit by teiling the woman her account was compromised, then sent her text mestages to change her cassword – giving the convertic access to her account, biscoin, payment services and many other aspects of your digital. The before anyone is the wiser. That is a coverful proposition for fraudsters.

Clearly, the digital world is increasingly vulnerable. Fraud is gesting progressively postilisticated and more difficult to prevent enturing it billions at dollars in finential losses annually. Victips are not only unaustecting senior criterial and heavy so meeted millermish, but also obtoin armappineum and every cary construents. She in the clinified reasonability to protect consumers or southly the feature logist of the very organization vested with the feature being or fraudulent treations in fill the market place has been a victim of fraud. Interestingly, the telephone number, which is the entrywhy has much or this throw, is being exclosived by saley or firms in movel ways. Fortunately, the victims no longer need to be victimized because much can be done to protect consumers from this type of cellisity their and related harms.



iconectiv



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



by Arindam Saverjee | April 2009

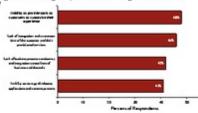
Executive Summary

The customization and convergence of terrifors across application slice and disparate networks are critical to communications terrifor provide as (SCPI) similar to provide increase services, reduce customer chain and drive average post shall report user. CSPI realist that provide an increase services in our enough it is deficial to other and users accurated terrifors with consistent and disparks quality of sharfors (QCQ), which is impossible without an end-to-end unified quatomers and service-level view. This is where most service providers false: Our research deady points out the gluring relations that eaks with most service providers basicoffice CSCI EXI systems, which are sypically completed disposed and last of the galling recensively to present a coordinated by degree control creaters is a normal plotal CSPI survey conducted by Yarlines Group, more than 60 percent of surveyed global CSPIs agreed that improved automer experience is directly linked to improved AUPU.

Host service providers take a top-down approach to eap rest customer and service views. However, they often adopt a service model that in most cases does not capture the complexity of missilgned as well as here regeneous underlying infestructure. Only when the relationships among underlying systems, services and castomers are imaged out of the infestructure is it possible to advise the gold of insultional 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 staffished top-down approach.

odiliciiloin. CSPs have invested billions to streamline and modernize their CSS 655 infrastructure to achieve the agility required to see all of their assets in Curr have interest counts to treatment and modernist treat round as interest read group and part and a set as or the "form one view, which in most cases that side of ordinary the desired on round-set streapment or part and set as or the "form being competitive and disturbing income." In the contract case to case of the part of t

Exhibit I. Critical Factors Inhibiting CSFs from Being Competitive and Delivering Innovative Services Source: Trafer Group, 2009



In light of current economic disillanges, in its dear than telecom service providers an equating their capes budgets to align with lower revenue growth expectations. Hence, although a unit ed end-to- end service model remains on top of their priority is presed of Mil-scale and expensive transformation operations. CSTR and managed services providers are locking for an alternative flow-infe information just in lower a united service model. In this report, we look a CSCTP current to personal interest, their deep deep on a unique, afternative remarked based approach service active control of the control of their control operations and active control of their control operations.

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Integrating to Mediaroom: Using Media(n) to Simplify the Experience A White Paper

Document Version: 1.0 Date: July, 2011

Author: Fredel Thomas, Director of Product Management

CNR Solutions

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Order-to-Cash Billing Services

Cycle30 provides a completely hosted platform for scalable and reliable converged billing. It includes convergent charging, rating and balance management for existing and emerging services across a variety of markets.

Unlike a traditional billing system you need to deploy, maintain and host yourself, the Cycle 30 order to anth platform is ready to day, so you can get to market quickly.

Order to Cash Services
Today's operator needs to focus on equiting and retaining customers and delivering service. Your operations rely on sort timely reverue assurance.

From the moment of austomer contect and order, the Cycle 30 platform supports your operation by managing and ecounting for the resource accided with your products and services, all the way through two king, reconcileation and collections.

At the start of your interection with customers, Cycle 30 provides corrections for core sales activities such as dhannel sales and retail commission tracking.

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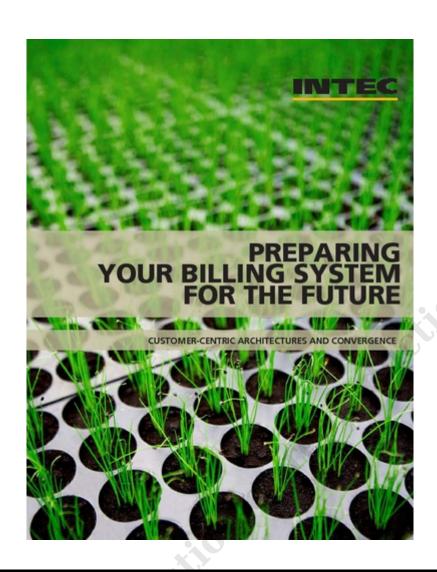
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Mobile Video Policy Control

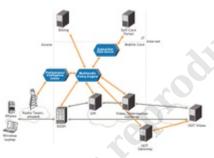
- Generate new revenue with mobile video services
- to spedific customer segments
- Align revenue and network costs using dynamic policy controls

Business Requirement
There is no question that video is both popular and consumes more network resources
than almost any other application. A look at oursent data points tells the story You'lube
has become the second largest search engine. Nobile video is predicted to grow 46 fold
from 2009 to 2014 and consume of percent of all mobile bandwidth by 2014. Clearly,
finding ways to mitigate the impact of mobile video on the network in a way that still
meets consumers' demands is critical to the success of mobile operators.

Challenges
Previous network solutions for handling data services primarily centered on static service provisioning in which operators take a "one-stee-fit-sall" approach. Insoverer, with the advent of data-nich services like mobile redee, that approach has a number of shortcomings. In fixed networks, peoparabical service demand can be accurately predicted and the networks built out accordingly. However, mobile networks, by returns, enable movement, which makes it more difficult to predict geographical service demand and network build out. Moreover, operators are increasingly investigating and deploying triend principal plans, which offer end users a variety of service levels and options that go far beyond the "one-size-fits-all" static provisioning approach.



Rot dilettin



Mobile Video Architecture



Set sail with total visibility of your network – and the journey ahead. Our Network Integrity Controller automates software audits of network devices in multi-technology, multi-vendor environments.

Check your gear regularly

As service providers build out new networks that provide new services— such as VOR, video, and other high-bandwidth offerings—an accurate picture of the network can mean the difference between rolling-out new services ce-time, or losing a market opportunity to a competitor. In today's environment, network managem are facing a conured sum; more traffic, more services. and more complexity have to be delivered with fewer people, fewer erroe, and fewer curlages.

Network integrity is the key to making sure that yourgear will get you where you want to go. In point of quartum leaps in network and blocking and technology, maintaining configuration integrity has remained a market, time-consuming, and error-prone costs. Design standards for device configuration to support VDIF, a newwise less data app, or an Ette met backhaul service may be painstakingly developed in the lab, but actual implementation in the field drifts spidly through error repair, replacement and provisioning

Use accurate maps

Act for distrib

The only way to achieve comitte at network integrity improvement, in spite of the oppositions of network expansion and operations verse st, in spite of the opposing

resource contraction, is to automate the qual feedback loop of network audit, discrepancy check, and gold standard maintenance. Nakina's Network Integrity Controller is designed to show exactly which equipment is present ensures that the firmware, patches and operating systems that run the equipmentare correct and up to-date, and that all software parameters are set as:

Set sail with confidence

Most network ourtages are like navigation errors—they are the result of human error The Network Integrity Controller on inimises the risk of Network integrity/Controller in inimize the risk courage by reducing inadverse at error through sophisticated online auditing and gerameter checking. Econocide to support the auditing of thousands of parameter in the addeds of thousands of network elements and networkattached servee. Secause it is automated, and world in any environment— LTL Bithernet Fiber, MG, or others— with equipment from a wide range of vendors, the Network Integrity Controller the data gene wied by the Nakina Systems solution, you can bring services to market faste (reduce outages as these services cale, and realize significant contravings

Key Punctions

Nakina Systems' Network Integrity Controller automates the most tedious and error proce part of your job — maintaining network integrity. With an accurate picture of the setwork you can feel more confident about the state of the network and your ability to delive rew services on-time. and on budget

- Data Import
 Store golfstandard data in a common baseline data reportory
- Import data or manage the life cycle of the gold standard input

Data Collection

• Struct real-time settings from networks

- Compare planning tool reports or templates to live network view, using specified solerance criteria
- · Display and report discrepancies
- Provide sotification of any service affecting change

- Paracheter Baselining

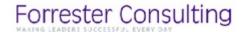
 Costs his a chical to replates of parameters based on groupings
- Compare and commit settings across a network

- ME Deserve Audit
 Select by NE or group of NEs
- · Customize and 6 he routput

- Recordile and Configure

 Applytosende network view with planning tool data
- Configure specific parameters on specific elements
- · Re-audit to confirm changes

WWW.NAKINASYSTEMS.COM



Prepared for Progress Actional February 2009

The Total Economic Impact™ Of Progress Actional Management For Interconnected Applications

Implemented by a communication and media service provider

Project Directors: Paul Devine and Sebastian Selhorst





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