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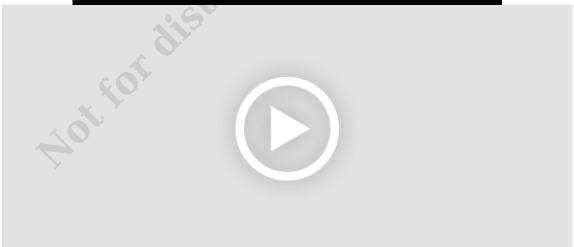
Fortinet Advances Quantum-Safe Security

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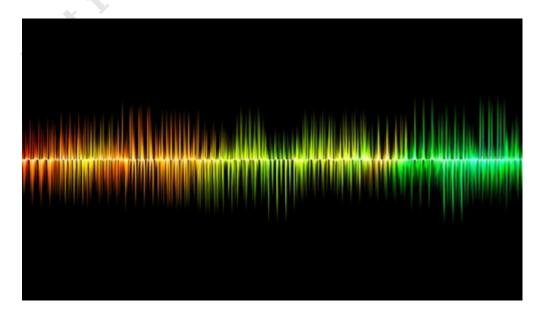
End-to-End Solutions for Broadband Networks

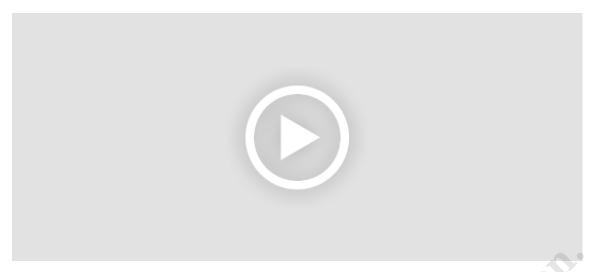
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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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Implementing a Scalable, Common Element Management System for Large Multi-Vendor Networks

Verizon Business and Nakina Systems Case Study

In 2005, Verizon Business, set out so build a state-of-theart, ultra-long haul (ULH) transport network and converged packet access (CPA) network initially comprised of more than 20 different types of equipment from 10 different equipment vendors.

Service Delivery Challenges

In order to deliver a new service across multiple network equipment providers (NEP) devices and SONETISDH, WDM, Ethernet, and IPMPLS networking technologies, Verizon Business needed to integrate a complex set of networks and applications spanning up to thousands of networks and applications spanning up to thousands of network needed.

Adding a new device type or application to this heterogeneous environment often required upgrading both hardware and software across the entire netwo fit. For a large scale networking environment, this can be an incredibly complex task since the new services need to be delivered via different NII P products and networking technologies.

The network initially comprised 20 different types of equipment from 10 different equipment vendors, spanning hundreds of thousands of network nodes.

Operations and Integration Challenges

Vertical Solutiness used a micture of operational and business support systems (OSS-BSS). These systems were deployed on unique platforms from different NEPs, operating with proprietary software applications and communications protocols.

NIP-provided EMSe tend use proprietary
CSS interfaces with varying levels of security
and lacking the scalability needed by a large,
global network operator.

Nobstanrial system and software integration work waveseeded to make each EMS 4...

Substanfal system and software integration work was needed to make each EMS function sufficiently for the network operations personnel to manage the network. The effort to maintain multiple systems including hardware, element management systems (EMSs), testing and training could not be easily sustained to support the new services. Verizon Business wanted to

The challenge facing Veribon is typical for a large, global communications service provider and can be summed up in a single word: complexity.

Acumen CPQ™ Overview

Configurable CPQ built for the Digital Communications Service Provider.

Acumen CPQ is a powerful Product Catalogue and Configure, Price, Quote tool for Service Providers of all sizes – enabling an interface for both the Sales and Engineering teams, and the Enterprise Customer. It is an intuitive and easy-to-use shopping-cart style quotation tool that is rules and role driven for both sales teams and end-customers. It is fully configurable with a powerful admin section and comes with 30+ out of the box features.



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Acumen CPQ**Overview

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Our Enghouse Data Services team specialises 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 special ized took 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, datavery 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.

ction.





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Embracing A Catalog Driven Social Network

By Faisal Ishaq

Principal Solutions Architect & Regional Sales Director ConceptWave Software Inc.





At present, the requirements for Business Support Systems in the communications industry are changing. Two sets of forces are driving this, particularly where the functions of billing and mediation are concerned. They can be defined as first, forces that impact the commercial landscape in which CSPs operate generally and second, as forces that drive each individual service provider as it responds to its own specific business goals.





Distributed cell site gateway from ADVA and Edgecore

Open and disaggregated path to 5G infrastructure



As innovation and growth in packet and wireless networks continues to accelerate, communication service provides K_SPs) and mobile network operators (MNDQ) no briger have time to vait for their vendors to come up with higher capacity devices that meet the latest requirements. Now there's a new way to grow networks that combines the agility of software-based feature development with the performance and economics of baremetal owith hes. Building a network for SS access, it now as simple as selecting a hardware component with higher capacity and installing the network operating system (NOS), And to help, ADVA and Edgecore have combined forces to deliver a disagginguisted cell site gateway (DCSG) solution that provides the required features in an open and multivervior fashion.

Meeting the bandwidth demand in 5G

Acoess speeds will increase dramatically for 5G networks, and base stations will move from 10 bit to 100 bit and 25 GbE uplink interfaces. Backhaul networks must rapidly grow to 1000 bit bit aggregated capacity. MNOs need to design and operate these higher-speed networks with proven technologies and established processes. At the same time, MNOs need to make their networks much more agile to unleash the power of 5G new radio (INR). They need to move from hardware-centric, static networks to software-defined architectures. With the latest software-defined networking (5 DN) and network functions virtualization (INP) network standagingsted radio architectures and networking, diaggregated radio architectures and networking.

are paving the way for open, agile, and efficient mobile ecosystems.

Moving from closed to open

MNOs and CSPs want to break open single-vendor sibs to increase competition and reduce cost. That has led to increasing interest in disaggregated networking with packet network devices implemented as white box switches and open network opening systems. That's why the Telecoin tellar Project (TP) defined the DCSG as we'll'as OpenAAI. Both are essential to supporting the move to rest-openization acid a schiffertipes.

According to TIP's DCSG Technical Specification, the DCSG is "an open and disaggregated platform based on commercial off-the-shelf components and

1 of 3 O ADVA, all rights reserve

January 2001

ction.

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 6% 48% 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 a ppointments 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: Calculuse an estimated 8% missed appointment KPI monthly, multiplied by an assumed \$150/Nruck roll. A 70% reduction in missed appointments represents an EBIT DA improvement of significant revenue

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

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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.

Truly open.

Open disaggregated optical networking is one of the industry's hottest trends, By decoupling terminal functions from the line system, this approach offers complete incibility to adopt the latest technology when and where needed. Our FSP 3000 OLS is truly open, allowing total readom to evoke and optimize each network layer separately. Network operators can leverage and expand when infrastructure and any time the technology of their choice. What's more, with open and standard interfaces, our FSP 3000 OLS exity integrates into software-controlled networks.

Our FSP 3000 OLS empowers network operations to create the solution that meets their exact requirements. With a modular architecture, wastild examplication and multiplesing options, and different charals is see, our FSP 3000 CLS exhibits customised solutions. Operators can simply mix and match the optimise filters and amplifiers and pack them into the bendfring shelf. This makes our FSP 3000 OLS clear for any type of meteoric infrastructure.

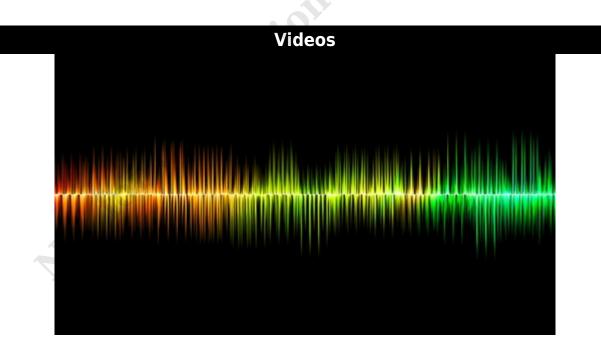
Future proof investment.

Cohevent modulation schemes are becoming increasingly diverse to imanifele transport network capacity and minimate the cost-genthi of transport. Feedble terminate with variable modulation formsts and based state extraining the capacity-week state. The utilinate network representation exists also on the system capabilities, and that's why open line systems share increasingly become important stategic assets. With a combination of high-performance feethness, our FSP 3000 GUS transports any otherest modulation format as well as all varying signal based states with best performance. The high-modulation flenged, and modulate architecture of our ROMONS guarantere a future-proof GUS trast can scale and accommodate any modulation format and based and accommodate any modulation for sources and accommodate any modulation for sources are seen of faxod by with configurations able to support direct detect sections.

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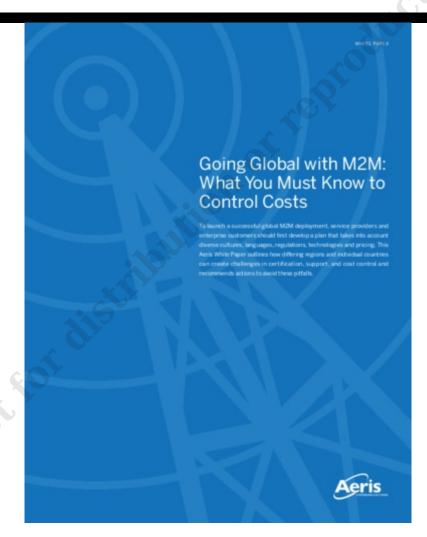






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burstable workloads.

CONTROL Your traffic traverses our global backbone, by passing the public interset. Providing a more predicatable cloud

Our pricing model accommodates your change able bandwidth needs, with choice of IGbps and

SCALABILITY.

workloads.





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

include statementations are much impacts aloud carriers. But first, let's start with a simple question: "What exactly is doubt computing?" According to the definition recently published by the National Institute of Standards and Technology (NEST), "Cloud computing?" According to the definition recently published by the National Institute of Standards and Technology (NEST), "Cloud computings a model for enablinguizations, convenient, or demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications and serviced flowers) and the provider and related with mirrard management effort or service provider interaction." The document better discovers on its definition by providing a list of essential characteristics, in addition to service and deployment models. The essential characteristics are on-dermand self-sensicis, based related access, resource pooling rapid elasticity and measured service. A definition for each characteristic is provided in the Robbinough ISES guildiactics. By applying a network view of fees thanocteristics, as on-decendantly due that a static and classic network is not able to deliver on these provises. An intelligent and dynamic network is mandatory to delivering or these essential characteristics.



- 2. Cloud application correctivity

Cloud services are he 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 complete holds on much impact as doud carriers.

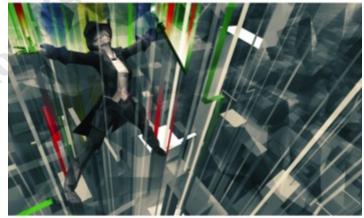
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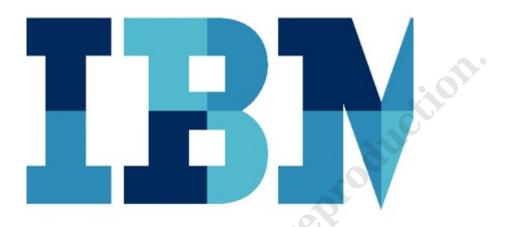
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