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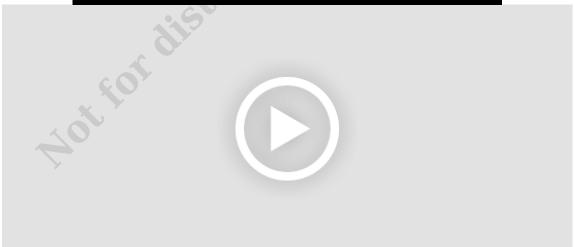
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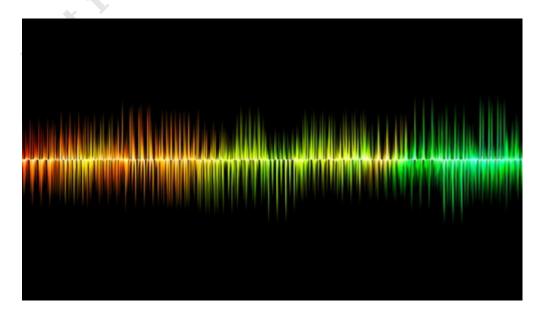
End-to-End Solutions for Broadband Networks

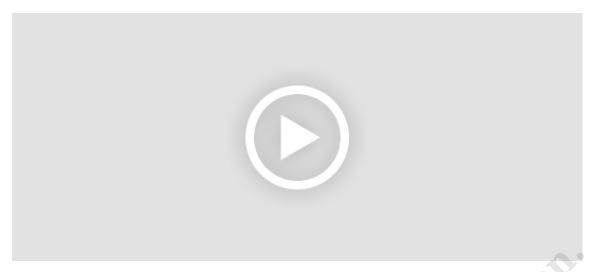
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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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The Impact of Transformation

A Dynamic Panel Accussion Featuring
The Industry's Top Thought Leaders

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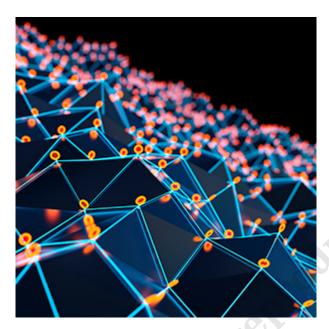
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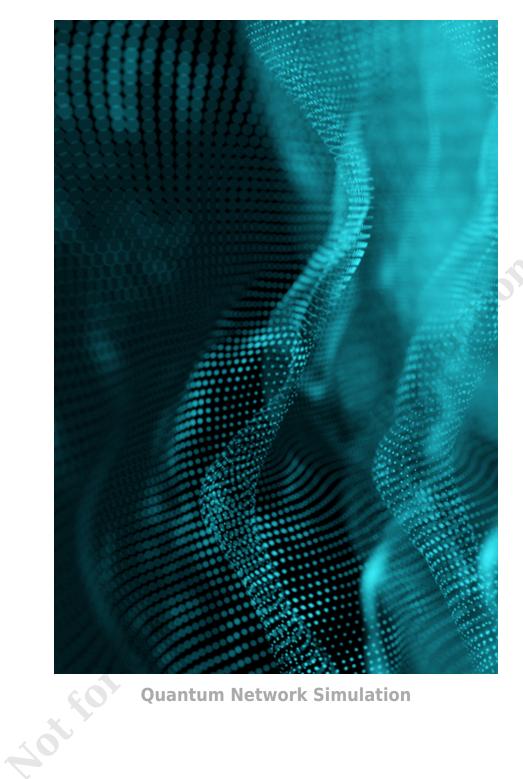
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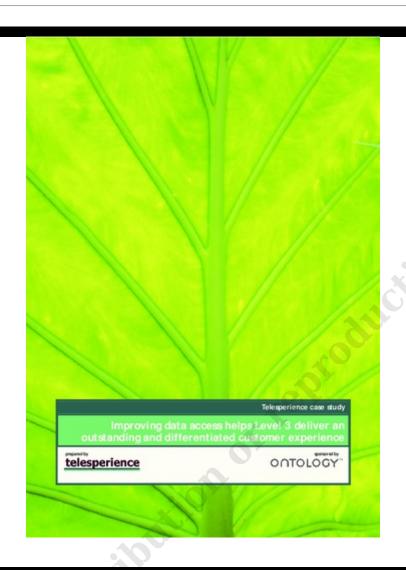


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3 WAYS YOU WILL OVERPAY FOR YOUR MOBILE WORKFORCE MANAGEMENT SOLUTION AND 3 STRATEGIES TO AVOID IT



MAN CORPORATE OVERVIEW

SS8.

COLLECT. MONITOR. ANALYZE. VISUALIZE.



SSB Networks provides the tastest and simplest way to collect, monitor, analyze, and visualize lawful interception data. For more than 20 years, we have been evolving and innovating tomatch the changing needs of Communications Service Providers ISS Pall and Law Enforcement Agencies (ILEAs), while delivering compine he raise solutions that a me way to use and optimize differ the best results.

Our solutions make analyzing, enriching and managing complex data sets simple, he Iging LEAs stop organized crime, calch criminals, and prevent terror attacks. For CSPs, we provide a trusted floundation for meeting regulatory organizements. Afficients and effectuate or providements. 35 COUNTRIES 1 BN

70% WARKET SHARE
US&UK

8 OF LA

We work with Belt the world's 1.4 la rigest communication service providers.

VE IN

VENDOR INTERFACES

Topsem network equipment interoperability with over 150 vendor interfaces to expedite deployment.

OUR SOLUTIONS



Compliant mediation and intercention



monitoring cente



End-to-end Lawful



data analytics



YOUR BILLING PROVIDER AGAIN.



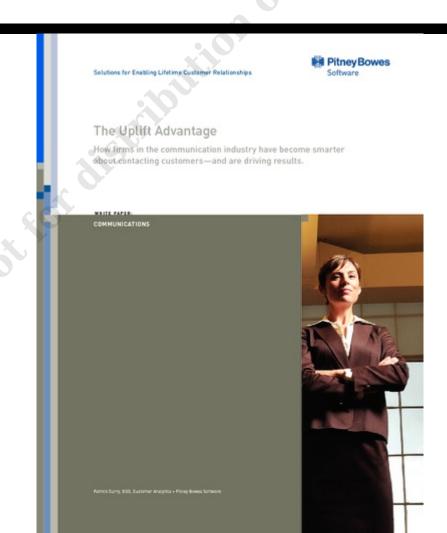
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TOP TEN PREDICTIONS FOR THE TELECOMMUNICATIONS INDUSTRY IN 2011

For B/OSS, Menaging the Manager is #1, says Progress Software
Progress Software Coporation (NASCAC: PRGS), a leading software provider that enables companies to be
operationally responsive, predicts that telecome ununications service providers will increasingly be able to detect
technology problems that might affect customers, solving them before the customers even know they exist.

Sanjay Kumar, Industry Vice President for Communications and Media at Progress Software, said, "The telecommunications field is very competitive, and service providers have to do what they can to differentiate their offerings. Solving problems before they happen goes a long way toward managing the customer experience." The firm also precides that mobile service providers will have to build stronger relationships with oustoners, mainly by providing unique offerings to grab and hold their sitension.

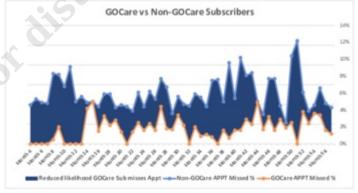
Progress Software's Telecommunications predictions for 2011:

- For BrOSS, managing the manager is key. Traditional business and operational support systems (BrOSS) will require systems to manage the systems. Most service providers have invested so much in ther BrOSS infrastructure assets that they cannot be easily replaced and need an adapted layer to respond to real-time business demands and reenergize the existing BrOSS infrastructure's value.
- You will predict problems before they come to light. Telco service providers will be able to predict when there is a potential issue that will affect outborners—and correct it before it happens. The pre-emptive correction of problems before the outborners knows they exist will become a key factor in differentiating service providers and improving the outborner's level of service.
- Loyalty program. Mobile service providers facing mounting competitive forces will have to build siturage relationships with their customers. They will need to provide customers with unique, interactive experiences to build stronger loyalty by tapping into automore call potterns and locations, cometating with outsomer preferences and providing value-added services to customize each customer's experience in a unique way.
- Partity cloudy. As communication service providers head for the cloud, they will struggle with data
 interoperability between cloud and non-cloud environments. Operators will need advanced data
 transformation and adaptive technologies to take full advantage of cloud-based applications.
- Mind the gap. Operators will be increasingly trapped in the gap between customer expectations for flexibility and speed, and the limitations in existing 8/OSS infrastructure. This will drive demand for new business user toolsets to overlay 8/OSS, enabling service providers to respond and deploy new solutions.

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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 6% -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 ownerall missed appointment rate. As 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

ction.

Whitepapers



Keep your distributed network ship-shape by ensuring that globally dispersed access points don't represent security leaks. Our Secure Access and Single Sign-on Solution gives you a crows-nest view of who is accessing network elements, and the potential impact.

Know your crew

Securing large, multi-vendor, multi-technology networks can be a daunting task With thousands of pe some laccessing thousands of network elements, the problem is clear. But a consistent set of security procedures can help—as long as you know they are being followed. Still, how can you manage security in an envisorment when different element management systems all handle user accounts and auditing differently? Secure Access and Single Sign-on from Nakina Systems solves these complex issues by assigning security privileges by user in a central location and tracking activity in easy to access reports.

Watching the horizon

Hot for dist.

quickly audit who accessed network elements, if they made any clanges, and from what network entry point they accessed them, can make the difference in meeting service level agreements. Nakina Systems' Secure Access solution allows security ad ministrators to implement a single

to be swork by memory. A broad stage of bourity policies can be created and enforced networkwide, and administrators can audit activity at anytime.

Nations multivendor security management solution offers the ability to:

- Substantially reduce the effort and contro-administransecurity crede start for thousands of users across large networks.
- Standardise the implementation of security policies access multi-vendor environments
- Enforce robust and consistent security policies with automated network-wide security measures like personal aging and minimum alphanumeric personal requirements
- Customize security privileges at the individual user it vel and define and assign privileges to a user or group of use a based on job responsibilities.

Key Punctions

The Natina Secure Access and Single Sigmon solution addresses four key problem areas:

Network Element Security
The factories ables the actually
administrator to automate and centrally
making user presented making ment
across all network elements and element ma sage me itt systems

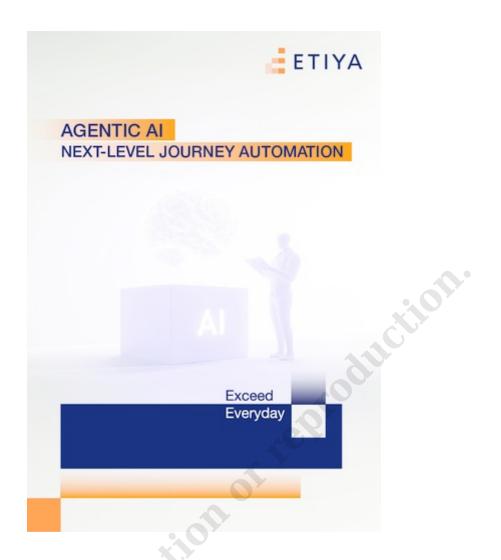
User Security Proxy
This allowance a single portal with his or her own unique account cadestriat and a list of authorised applications or elements, significantly simplifying and improving the end-use reoperator.

User Privileges

This enables the security administration to entire user access privileges by setwork element or element management system.

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Subscriber Policy Management Trends

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CUSTOMER SUCCESS STORY: SINGTEL OPTUS



iliciion.

Expert Billing For the Top-End of Town

SingTel Optus (Optus) needed to differentiate itself from its competitors and create a valuable service to attract and retain high-value customers. The company wanted to optimise its service to large corporate and government entities and therefore needed a billing and transaction management system to support that market segment.

STRATEGY

As the largest competitor to Australia's incumbent, Optus has taken a very strategic approach to winning high value customers.

To support this business decision, Optus selected Singleview as the strategic billing and transaction management system for their corporate and government customers. They chose Singleview because of its Rhei-billity and functionality, which supports the concept of a "market of one".

RESULTS

RESULTS
Objects has reduced overall cost of ownership and improved operational efficiencies with lower bill processing cycle times and seamless insteam a operations, not to mention reduced spend on accessing data and increased time on servicing its coporate and government outstomen.

OPTUS - AN OVERVIEW

OPTUS — AN OVERVIEW
Optus, now owned by telecommunications glant
Singfel, commenced operation in 1992 and is one of
the largest or munications service providers in
Australia. It has more than six million customers
today and prevides a broad range of communication
services including mobile, national and long distance
services, local telephony, international selephony,
business network services, internet and satellite
services and subscription television.

ORGANIZATIONAL STRUCTURES

ORGANIZATIONAL STRUCTURES
REFLECTED WITH EASE
Singleview's hierar thies provide powerful
aggregation freatures, which allow for the
management of complies coppore and government
accounts. The ability of Singleview to imitate these
organizational structures is abilityed via its superior
and multifaceted hierarchies. Each account is treated
individually, allowing billing, reporting and involving
to be tailored to need the client's individual business
madel. These hierarchies can recreate see a o
levels deep with the usands of nodes.

BILLS AND REPORTS AS A SELLING TOOL

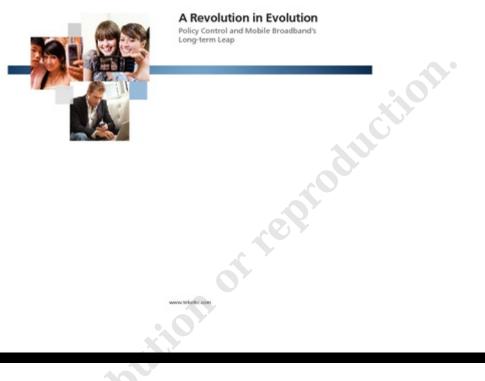
Optus is able to use the options provided by Singleview as a key of freemtator for high-value corporate clients. With Singleview, Optus customers have total control when they ward it and how they want it.

There are two key benefits for Optius customers:

One single bill for all products and service.

Advanced multiple proorting functionality.





Rot distribute

A Revolution in Evolution

Policy Control and Mobile Broadband's Long-term Leap

ction.

Sigma Systems and TiVo

Orchestrating New and Enhanced Entertainment Experiences

As consumer demands for a more personalized video entertainment experience continue to skyrocket, service providers are seeking new ways to remain competitive and seamlessly deliver over-the-top (OTT) content to subscribers. Today, Sigma Systems and TWo have developed an integration partnership to help service providers achieve this goal by embacing and provisioning the TWo video pilatform as a part of their bundled service officerings.

One Managed View of Video Access Entitlements

Critical to the success of offering a service like TWO to customers is the ability to seamlessly enable them to access and view subscribed centers from the TWo device. Signa Systems provides the service orchestration for the necessary authorizations, entitlements and provisioning of the TWo service flor subscribers through a single OSS solution—an essential element to delivering both on-network and 3rd pasty contract and entertainment services. Subscribers receive the content they want, while service providers maintain outcomer satisfaction.

Provision and Manage Premium Video Service Products & Packages

Delivering new entertainment experiences to subscribers diseas? 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 P video platforms, like TV/s, on a single integrated OSS service management platform. This co-existent service fulfilment environment manages the provisioning and activation of all video services, helping service providers to Isanch new premium video services and bundled packages that drive new revenue and reduce customer churn. In addition to viewing premium video and entertainment services offered by TiVo, service providers can also integrate with and deliver existing video products on the TIVo set-top box.

Effectively Manage the Entire Video Delivery Chain

Sigma Systems is the only OSS vendor today that has created a TIVo solution adaptor. With this unique solution adaptor, we have extended our video service fulfillment expertise beyond linear TV by enabling the support, integrition, and provisioning of the TIVo service. Our single, integrated OSS solution seamlessly providen order management provisioning and entitlement management across all technologies and systems. This single integrated solution manages one image of the TiVo service delivery value chain for the subscriber, network, device and content from the cloud.





AOU SIGHT

White Paper

Orchestrating the Evolution to Cable IP Video





Business Process Outsourcing

services

OHR provides a full suite of Business Process Outrouncing (IPO) services to enable Communication Service Providers (CSPI) to need the escalaring competition, reduce operating and capital conts, and address the increased complexities of convegling technologies that make it challe riging to run their business. CRPs IPO Services, on averagle, can reduce your operating costs ten percent (ION) to forty persent (ION). Your business could avoid hundreds of thousands, and in some cases millions of dollars of apatile expenditures while improving your operational effectiveness at a fixed and predictable price.



NOC SERVICES
CHR povides 24X7 Managed NOC Services for CSP core networks and ISP operations.
Our NOC is staffed with sechnical experts anneoly this the latest technology and world clars best paractions to assure your network and systems uptime. We can operate as Tier 1 to Tier 4 support, or as a backup or nightnine goverage for your staff.

IT MANAGED SERVICES

Ction. If MANAGED SERVICES
CIRP provides 247 IT Services for your internal IT operations. Our IT Service is staffed with technical experts, arrived with the latest technology to assure your internal IT network and systems uptime. We can advise and glade you on world class best IT practices and provide a single service-des Nata can deliver life 1, to Ties 4 if support 29x7 or as a backup or nighttine coverage for your staff. Our services include all endourse support, systems patching, data backup, service control, spans and virus scanning, systems administration, recontoring and planning.

ISP SERVICES

ther SERVINES
CHR'S 2477 Managed ISP Services provide world class dustoner support—leveraging
CHR's set happort expertise, real-time network reomboring and convenient outstoner
constructions portal, doud based e-mail, batkup services, spam and virus,
filtering, hosted content management systems and websites. We provide support
options including management and troubleshooting into the end outstonering previate
based equipment.

CIS. CAD SERVICES

CBS, CAD SERVICES

CRIT GB, CAD Services provides a turnley solutions for managing all plant and operational CAD records in our doubt have drysteres. Our technical recovery, proven process and systems assure business continuity, improve operational reforemore and systems assure business continuity, improve operational reformation and reduce reporting errors through real-time gove-reference in PRIS plants. GB, CAD is services empower the diention also more informed decripion with air time and referent data. CHIT GB, CAD is solution and highly customized by appoint of integrating with any B, OSS systems.

BILLING SERVICES

CHR provides turnley back-office management including system updates, administration, reporting, running billing and all-other aspects required to operate your business. CHR can provide their function on our cloud based systems or your onstersystems – even if it's notion SSSQSS solution. We will apply our best practices and industry expertise to reduce your operating costs and insprove your operations.

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CHRSolutions ph 713.351.5511 email info@CHRSolutions.com

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 it. STPs) and no bite network operators (MMOs) no brigher have time to wait 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 bare-metal switches. Building a network for 5G access is 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 disaggregated cell site gatevery (DCSG) solution that provides the required features in an open and multivendor flashion.

Meeting the bandwidth demand in 5G

Acoes speeds will increase dramatically for \$G\$ networks, and tase stations will move from YGE to 100 EE and 250EU uplink interfaces. Backhaul networks must rapidly grow to 1000 bits 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 \$G\$ new radio (NR). They need to move from hardware-centric, static networks to notware-defined architectures. With the latest software-defined networking \$DNQ and network functions virtualization (NRV) network technologies, 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 silos to increase competition and nature cost. That has led to increasing interest in disaggrapated networking with packet network devices implemented as white box switches and open network open are sometime or programment of the cost of the cost

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

Page 1 of 3

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Innan Wi



Creating Communities

Communications service providers play a vital role in building rural America. Connecting unserved or under served communities through broadband technology improves their way of life and closes the digital divide by providing economic opportunities otherwise not possible.

CHR Solutions is a proven industry leader with over 75 years of experience and will help you invest in broadband. Our complete solution gives you the tools necessary to make strategic business decisions for building, marketing, and monetizing your network.

ENGINEERING SERVICES

Network Planning & Design Broad band Viability and Feasibility Studies Outside Plant Engineering (Architecture, Field Notes, Design, Permitting)

GIS/CAD Services Project/Construction Management

Aot for distribut

BUSINESS SOFTWARE

Customer Management
Billing
Service Activation
Sales & Marketing
Order Capture
Facilities Management
Dashboards

Case Management Financials

BUSINESS CONSULTING

Regulatory
Markethol
Product Markethol
Product Markethol
(Billing
Cyber Security
NOC Monitoring
Invoice Fulfillment
Systems Rollout

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