Home
Subscribe
Knowledge Center
About Pipeline
Innovation Awards
Executive Summits

January 2025, Volume 21, Issue 3

Past Issues
News Center
Research Center
Webinars
Events
Sponsors
Members

FEATURED SPONSOR:



IN THIS ISSUE

Data Center Performance
Top 5 Connectivity Markets
Network Training & Certification
Al for Network Transformation
Quantum Cybersecurity Risks
Fiber Industry Transformation
100G-PON Fiber Design
Network-as-a-Service Benefits
Subsea & Satellite Connectivity
Unlocking Private Al with NlaaS
Letter from the Editor
Telecom & IT Industry News
Article Index





NEWSWIRE



Agi, for distribution of replications of the principal states of the principal



of Rot distribution of Rep.



CONNECT WITH US

Follow @PipelineWire

Back More

Agi, Rot. distribution

Latest Issues









Advertising Placements

Sponsor Articles and Issues

View More Issues

TRENDING NEWS

iProov Discovers Major Dark Web Operation

Full Story>

BrainChip Provides Low-Power Neuromorphic Processing

Full Story>

Elliptic Labs Signs Software License Agreement

Full Story>

GlobalFoundries and IBM Reach Settlement

Full Story>

Ericsson and Beyon Renew MoU

Full Story>

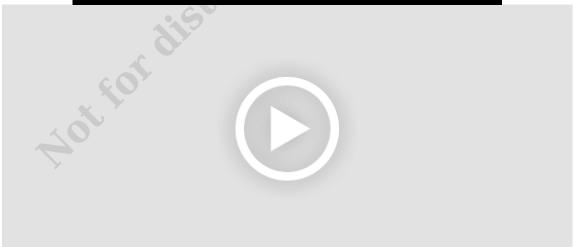
IonQ Announces Technological Breakthrough

Full Story>

View More News

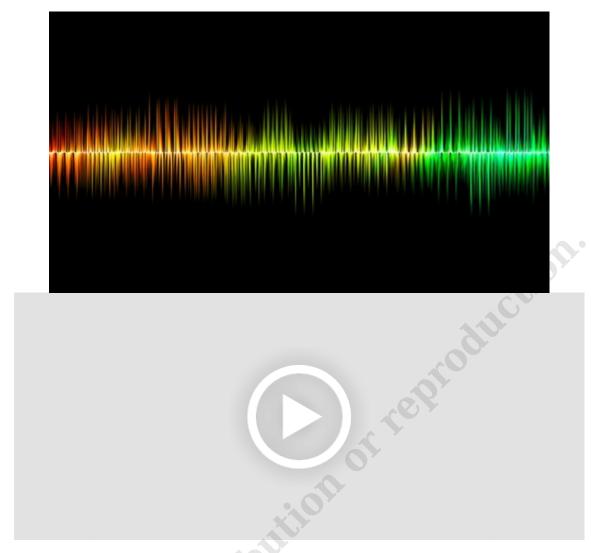
Featured Content





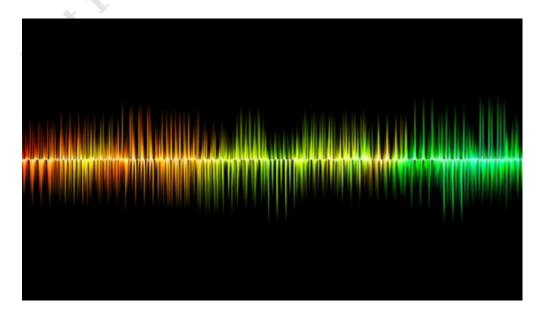
End-to-End Solutions for Broadband Networks

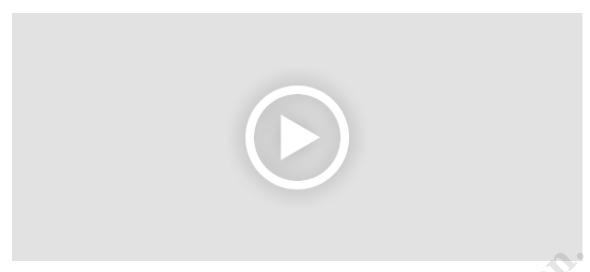
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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.

Request Video

View More Videos

Latest Webinars





PANEL DISCUSSION

The Impact of Transformation

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

2018. All rights reserved

Pipeline

PANEL DISCUSSION

The Network Transformation Imperative

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

0:2519.At rights received.

Pipeline

>>>>>>>>>>>

PANEL DISCUSSION

Agile Architecture for Digital Innovation

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

8 35 C. All rights secured.

Participate in Webinars

Join Next Webinar

View More Webinars

Latest Articles



Data Center Performance

Order Article Reprint Read More



Top 5 Connectivity Markets

Order Article Reprint Read More



Network Training & Certification

Order Article Reprint Read More



AI for Network Transformation

Order Article Reprint Read More

Sponsor Articles

ribution of reproduction.

Advertising Placements

TRENDING ARTICLES



IT & Telecom Industry News



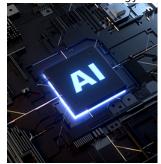
UI & UX Data Design



Open & Ethical AI Standards



Telecom & IT Technology News



Enterprise ROI for GenAI

Other Featured Content



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, medis, information and social networking. In today's diverse communications markstylese, 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
- Bill 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 defacts standard. The usage events from these networks and the services that run on them are growing exponentially. Services providers need to interact with subscribers in real-time to deliver the exemplany 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 schieved 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 challengee of freTelco 2.0 market by providing the industry's factiest, most efficient realtime 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.



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 DEVOIDS Enterprise DevOis 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 exterprises, embracing DevOps is a transformative cultural

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

INTERNET: GUARANTEE CONTINUITY Modern enterprises should build internet-scale operations and manage distributed, globally accessible applications and cloud services that are critical to the cloud services that are citical to the DevOps flow and set of practices based on continuous experiment ation and feedback loops. Tella Carrier's SD VBM 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.

Got distrib

THE OVERLAY AND UNDERLAY: A

THE OVERLAY AND UNDERLAY A FUNCTIONAL SOME A suitainable alignment between the internet underlay and the intelligent SO 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 backbon e network with fewer hops compared to other internet service providers. We directly connect more than 59% of the us the world's best-connected internet backbone network.

PARTNERSHIP: CULTURAL FIT

PART NAMESHIP: CULT WALL FIT Technology partnerships are critical for building the right DevOps environment. We understand that enterprises expect flexibility, responsiveness, and expert flows us. We ensure outdomes are always close to the technology of 5D-WAN with no unnecessary layering in between.

We help accelerate Dev-Ope journeys with better internet access and a structured lined on-boarding process to help outcomers deploy a functioning SD-WAN solution and experience a multitude of benefits.

TEST ENVIRONMENTS

O/CO PIPELINE

on any platform, with consistent user experience.

AUTOMATION

hiction.

VISIT OUR WEBSITE FOR MORE INFORMATION ON OUR SO-WAN SERVICE

WWW.TELWCARREN.COM

Accelerating the deployment of 5G with simple and flexible transport networks



Mobile Network Operators (MNOs) are struggling to meet the demands of connecting their existing 4G/LTE networks, building out transport for new 5G networks, and laying the groundwork for distributed compute. ADVA can help with a proven solution that meets the operational requirements and the demanding business case.

Challenges faced by MNOs in their 5G transport network planning

MNOs aiming to deploy 5G face a fundamental question of how to design their transport network. This is the network connecting cell travers and small cells to their core network. It is referred to as Mobile Backhaul, Fronthaul, Midhaul and X-Haul, depending on the technology used.

MNOs plan to make a strategic investment in fibre for mobile transport, with microwave and mm wave radio deployed only where needed. Drivers for microwave include cases such as avoiding delays in fibre deployment and overcoming obstacles in geographic regions such as roads and nahway infrastructure.

In addition to the physical medium for transport, MNOs face other questions in three broad areas:

- Support of existing 4G macro cells, and new 5G cells
 Architecture and technology selection
 Architecture options such as the optimal location of edge compute
 Technology options and protocol selection such as use of small cells, majorive MIMO, C-RAN, common radio public interface (CPRI) aCPR, O-RAN, and backhaul
 Accommodating sharing of the transport network to bring cost per cell site down



CHALLENGE

The Company was looking for a single vendor to deliver a comprehensive solution that combined agent-led customer care, multi-channel inbound and outbound customer interaction management, 1st and 1rd party collections, in-store data lookup (Neverse Phone Append), and consolidated outsterner reporting while simultaneously reducing overall customer care costs. The initiative was to consolidate services being handled by two vendors and connect one of the Company's selected inhouse operations.

dion.

CSG deployed inbound and outbound self-service customer care and collections solutions that utilized two of its direct customer interaction delivery channels; interactive Voice Response (IVR) and direct mali (postcard notification), By utilizing these proactive outsomer interaction delivery channels, CSG was able to supplement current agent activity with automated self-service interactions, which helped the Company control costs and increase agent productivity and outstorer or ovenlence.

- Integration with the Company's historical database for customer identification
- Dynamic customer routing to the appropriate associate based on skill set to facilitate first call resolution
- Desligned an enhanced pre-collection strategy that leveraged outbound interactive voice messaging and Postcard Reminders for past-due videos and games
- Secure Payment IVR (CSG is a PCI-DSS Level 1 Service Provider) for customer self-resolution of past-due accounts
- In-store account lookups based on home telephone number (Reverse Phone Append)
- Customer Sattsfaction Surveys allow the Company to improve the customer experience based on customer feedback
- Speech-enabled in bound NPI solution for in-store and online customers, which supports self-inquiry and self-resolution interaction with the company's between the self-inquiry and self-resolution Payment. When the Company's behavior if disables for Payment. When the Company is belonged identification for the self-inquiry and self-inquiry.

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry) and self-inquiry and self-inquiry and self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry) and self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry) and self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inquiry).

 Stand 3rd party Astonizated Collections (outbound & Indoor Self-inqui
 - Delivers reporting to separate corporate and franchisee store collections
 - score connections

 Integrates with the Company's collection associates
 to augment automated systems

 Past-due Direct Mall Postcard Reminders deliver a hard-cop
 written format enminder that an item is past-due and gives
 the oustomer self-service options to purchase the past-due,
 teem Immediately by calling into CSO's self-service Secure
 Payment NM

- Implementation of Automated Collection Solutions reduced the Company's annual collection costs by \$1.7 million
- 1st party Automated Co lections notifications and self-cure options significantly reduced the number of accounts being sent to 3rd party collections outting average collections costs per outcomer by more than 50%.
- Solution generated approximately \$2.9 million in additional collections
- Solution decreased the Company's client roll rate by 3% as well as its days sales outstanding (050) and delinquency rates

Delivering a new ROI for communications

Return on insight in a big data world



IBM

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



by Susan McNeice and Sheryl Kingstone | June 2011

Key Takeaway

- The new marties reality for communications service providers (CSR) is so cransform their business around their customers.
- Yankee Group believes enhancing customers' experience is CSPs' last remaining opportunity for real competitive differentiation.
- Today's CSP operations influenceurs is neither 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, cancers-contribing is paramount. Sur utilitie earlier times, managing customent' experience is not simply a matter of capturing cancers information and order requests. Today's reality requires CSPs to evolve from an operational service stranger to a more cancers focused experience remageness 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, isonic devices such as the Badi Benry and iPhone have simulated customer-demand for mon sophisticated social and services, charging their connectivity lifesties. In the past, innovation was constrained by item feature-rich phones with artiflictures proprietary to specific CSPs. The new world order, however, is driving charge across consument, devices, deac connectivity and application econgeners (see Bahibis Lonithe new 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 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 corners and applications
- The latest digital lifestyle solutions

Aoi, for distribut

This sustant publication has been sponsored by Progress Software.

Copyright 2011, Yorken Group Research, Inc. All rights reserved.



we focus on your network you can grow your business

With over 75% of your IT budget dedicated to maintenance,* it's difficult to move ahead.

Our comprehensive suite of Managed IT Services tree you from capital constraints and resource restrictions. Simply put, we focus on your network so you can grow your business.

Rot distrib

24x7 Server Monitoring & Management
24x7 Device Monitoring & Management
24x7 PC Management
Baseline Audit & Assessment
Support Center Services
Backup Services
Procurement Services
Vendor Management
Business IT Consulting
And more...

- · And more...

ph 713.351.5111 email infe@CHRSolutions.com





MDS BillAnaly

Deliver clear e-bills to business customers, provide the management information and oustomized reporting they need to effectively manage their accounts and services, sim integration with existing infrastructure, improve ROI and reduce risk.

Consolidated e-billing and Analytics for **Business Customers**

Communication Service Providers (CSPs) are faced with the challenge of how to increase revenues and drive up profitability despite intense competition and slow growth in core markets. One revenue growth strategy being pursued is to expand into newbusiness areas and increase the range of products offered. However, this expansion can increase billing complexity and have a negative impact on customer experience. As business customers represent a significant source of revenues for CSPs, it is imperative to deliver increasing levels of value to customers while reducing complexity and minimizing the cost to serve.

Businesses are demanding access to tools that enable them to view their consolidated bills, analyze usage, leverage business intelligence reports and control the cost of the services they use across their organization. CSPs need to satisfy this need to differentiate from the competition, attract and retain key customers, and efficiently deliver a superior customer experience.

MDS BillAn alyzer

MDS BillAnalyzer is a sophisticated e-billing and analytics application that allows you to present an integrated view of products and services to business customers. It provides a seamless customer experience from disparate billing systems and allows business customers to manage their consolidated bills in a convenient manner that eliminates the need for paper bills. Powered by the Lavastorm Analytics Engine, MDS BillAnalyzer provides light-touch integration capabilities to deliver rapid go to market nd low-risk deployment that capitalizes on existing infrastructure.



Advantages for CSPs

Single View of Products and Services

MOS BiliAnalyzer has been designed to be biling-system agnostic. It streamlines the task of bringing together information from multiple billing systems, presenting the customer with a single, converged view of their services. Its non-intrusive ETL functionality and standard APIs simplify the capture of data from multiple sources, provide data synchronization and assurance, support data enrichment for presentation, and offer rapid system integration with low project risks and costs

Single View of Customer

With MOS BillAnalyzer, CSP care staff and relationship managers can view bill and usage data in the same way as customers. It provides them with a holistic view of the customer and their services, enhancing first-time call resolution and helping staff to have a better understanding of the true value of the customer.

MDS BillAnalyzer

Aoi, for distril



Kion.

Reports



THE LOW-LATENCY SERVICES MARKET:

Evaluating the Emerging Market Opportunity for Service Providers and Telecom Carriers

Federal Law (Title 17 of the United States Code) makes it unlawful to create or distribute copies (including electronic copies) of this Report or any portion thereof by any means and for any purpose without our express written permission. The penalties for each offense include a prison term of up to be ryears, a drift genalty of up to \$100,000, criminal fines of up to \$500,000 (\$250,000 for individuals), and payment of our attorney's fees and costs for enforcing our rights. We offer a reward of \$2,000 for information that leads to the successful presecution of copyright violators. If you would like additional reports or information, please call (\$12) 980-7848.

Brochures



Brochures





Use the Pipeline Marketing Planner to create an integrated pagreen to achieve your annual marketing objectives and co-posate strategy. Select the brand building, lead-generation, thought is electrical, and contendorservices that will propelly our organization of the plant the timing of these achieves to coordinate with the issues of Pipeline that align to the bupter and important to your company.

	UPCOMING ISSUES											
	, 1, 1, 1, 1, 1,											
STRATEGIC MARKETING OBJECTIVE	.54	A SE	Mark .	1	And I	1		A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR	HARM ME	and the same	A STATE OF THE PARTY OF THE PAR
RAND BUILDING:	3	20	35,50	1	8 1	To Be	6,00	The sale	6 4	6	08	Se de
Ran el Site Amerising		0 1						10				
Entested, Intractive Article Athertoing												
Weekly Neveleter Advertising				-	0		-					
Monthly Newsletter Advertising					0					D		
Spotight/Article with Cover Page Lago			- 0	-	0	- 0			0	0		0
Executive Spotlight Video Interview		- 0	- 0	-	0	- 0	-	- 0	- 0	0	0	0
Cover Page Comer-emp		0			0	-		0	-	- 0	-	
Cover Page Lags			- 0	0	0		0	0	0	0	0	0
Cover Page Executive Photo-			0		0		- 0			0		
Tradeshow Newsletter Advertising					0		0		0	0		
ET Emade Surmit Everts		0	-	0	0		0	0		0		
Tradeshow and EventiPertrenhips	- I	- 0	0	0	0	0	0	-	0	0	- i	
Webiner Branding Sponsonhip	0		0	0	0	0	0	0		0		
Intervation Awards Sponsonhip	Ö		0									
Marketing, Writing, and Design Services		0	0	0	0	0	0	0	-	0	0	-
OUGHT LEADERSHIP:												
Company, Executive, or Technology Spotlight Articles							- 0					
Sportsonel ThoughtLeadership Articles												
Commissioned Articles												
Executive Spotlight Video Interview												
Whiteboard Volens			0					0				
Whitegaper Writing and Distribution		0					0					10
Resource Center Asset Hosting		0	-	0	0	0	0	0	0	0	Ö.	
Marketplace Shectry Golfrage	-	0		0	0	-	0	-		0		
Industry Reports and Surveys	0	0	0	0	0	0	0	0		-5		
CT Emodie Sunnit Events	-	Ö	Ö	- 0	Ö	- D	0	- D	- H		, a	
Trovator Aserta	-			-	Ö	- 6	0	10				
	Н	- 0	- 0	- D	0	H	0					
Wahur Parkipaton								-		B		
Rouline GuestSpeaking & Event Support					0		0					
Roaline Guest Brogging		0	0		0	0	0	0			0	0
EAD GENERATION:												
List Rentals with Lead Reports									O O			
DirecConnectAdvartaing												
Resource Center Asset Hooling												
Content Distribution and Syndoxism								B				
SpelightArbites	0											
Sponsored Articles												
Digital or Physical Article Regrints				0	0	0 .		1 0	0	0		
ET Executes Summit	Ö	0	0		0			0	0			
	ö	-	0	- 0	Ö	- C	6			Ö	Ö	0
Webiners with Extended Lead Generation												

Brochures

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

Aoi, goir dissiplination

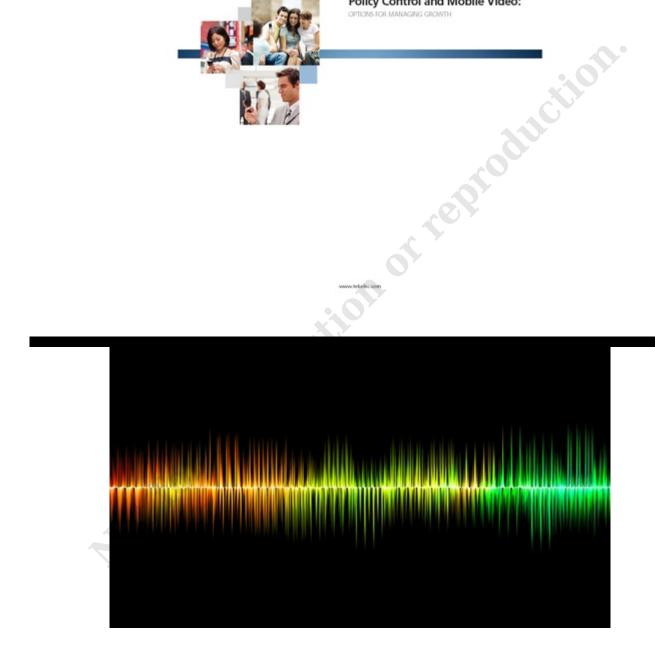
6 ADVA, all rights reserve

Innan Wi



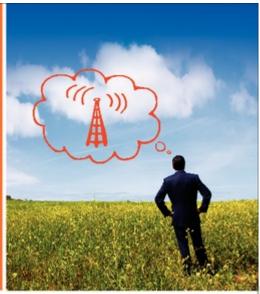


Policy Control and Mobile Video:









Looming deadlines, limited resources and a fiercely competitive market. make it difficult to complete your wireless network. By outsourcing your ENGINEERING, FURNISH AND INSTALLATION (EF&I) we'll ensure the job is done right and on time.

CHR's experienced engineering and technical teams combined with our multi-vendor relationships and decades of regulatory experience ensure a successful integration of your wireless system - everything from site acquisition to optimization.

- · Network architecture and design
- Multi-vendor management and procurement advantages
- Logistics and support (Rack and Stack)
 Implementation and training

- Regulatory and finance
 FTTH, IP and IPTV specialties
- · 4G wireless core and site acquisition/turn up



713.351.5111 • info@CHRSolutions.com • www.CHRSolutions.com



Want to get where you're going without getting stranded? You need to ensure network integrity. Our solutions allow you to know and control what's in the network, where it is, how it's configured, and who can access it.

Know where you're going

The next generation of networks — whether CT (
the next, Mt), or optical — a place or attailed
auth features with highly distributed in activate
White these new networks are designed to
increase flexibility and profits, they do add a new
hasted or complexity to the network. Seddenly,
you've maintaining far more handware and
othware coeffigurations and one this appoint to
the types of a row that can lead to our agest and
dispedic castoms experience. Natives (pattern'
solutions power integrity in the worlds largest
extraction, and they are provided in particular
experiences are selected to our advanced
equipment manufactures.

Chart your course

Soft distribution

Nak in a Systems and our integrity platform partness deliver software solutions that ensure your network is always headed where you intend. Together, we help our customers

- Accels rate network upgrades and new installs by providing a baseline readout of network elements oftware configuration before and after the upgrade;
- emode and arm outprace.

 Reduce the little between the gold standard setwork design and the network in ope artist through colline auditing, discrepancy checking, and looking down the network with certualized security management; and
- Improve asset utilitation and endural network hardware maintenance expenses by identifying discrepancies in inventory and asset records through automated network discovery.

Nation Network Imageiry Management Solutions empower next generation networks to definer on their promises

Pick the right navigator

Nak ina Systems takes a unique approach to the competing challenges of expanding setworks and shrink hing macerum. By bousing on the issue of network integrity, we have fund millions of choles in from customer setworks, helped service provides to do live new offerings date; and have helped decrease service outages across our customer base.

We are:

- Bespons be to our customers, providing solutions to proble mediate; more ceasively, and more flexibly
- Aggressive in our search to addivatue to our outdoment operations
- Consists rity and relatitiesty improving our technology, practices, and processes to achieve sected for our customs is and other stakeholden.

Nai ina Systems has developed its framework and applications working with the world's most demanding customs in in the world's largest and most complex setworks. We understand carrier requirements, testing, scalebility, and resiliercy.

Our customers roll out services more rapidly, upgrade networks with less effort, and experience fewer outages because they partner with Nakina Systems.

WWW.NAKINASYSTEMS.COM



GOT distrib

Corporate Factsheet





Info Directions Maintains Gold Certified Status in Microsoft Partner Program

VICTOR, N.Y. (March 10, 2009) — Info Directions, leading provider of net-centric billing, rating, order management, workflow and selling solutions for communications service providers, is pleased to announce it has maintained Gold Certified status in the Microsoft Partner Program with a competency in ISV/Software Solutions.

Recognizing Into Directions' expertise and total impact in the technology marketplace, the Gold Certification ensures Into Directions has demonstrated expertise with Microsoft technologies and has a proven ability to meet customers' needs. Microsoft Gold Certified Partners receive a rich set of benefits including access, training and support, giving them a competitive advantage in the marketplace.

"Solutions Competencies are an important way for Microsoft to better enable ISVs to meet customer needs," aud Sanjay Parthasarathy, corporate vice president of the Platform Strategy & Partner Croup at Microsoft. "They allow ISVs to keep and win customers with their deep knowledge of solutions-based Microsoft platform technologies. Microsoft has a long history of working closely with ISV partners to help deliver competing solutions and applications to our mutual customers, and the Solutions Competencies are an important step in continuing to enhance vital relationships with ISVs worldwide."

The Microsoft ISV/Software Solutions Competency recognizes the skill and focus partners bring to a particular solution set. Microsoft Gold Certified Partners that have obtained this competency have a successful record of developing and marketing packed software based on Microsoft technologies.

We are extremely pleased to have maintained Gold Certified Partner status in the Microsoft Partner Program. Our organization is focused on developing products and services that support the evolution of the rapidly changing communications market, so we make it a priority to participate in the Microsoft Partner Program at the highest level," said Tim Winday, Vice President of Product Marketing at Info Directions. "Being a Microsoft Certified Gold Partner helps us meet our commitment to our clients by giving them the products, tools and services they need to leverage new opportunities and compete more effectively in the communications market."



Upload Content

View More Content

© 2025, All information contained herein is the sole property of Pipeline Publishing, LLC. Pipeline Publishing L.L.C. reserves all rights and privileges regarding the use of this information. Any unauthorized use, such as copying, modifying, or reprinting, will be prosecuted under the fullest extent under the governing law.



A distribution of the production.