Home Subscribe Knowledge Center About Pipeline Innovation Awards Executive Summits

February 2024, Volume 20, Issue 4

Past Issues
News Center
Research Center
Webinars
Events
Sponsors
Members

FEATURED SPONSOR:



Let's create → AI models to predict trends before they happen.

ibm.com

IN THIS ISSUE

Satellite for Mission-critical IoT
In-building Wireless with CBRS
Charting the Course to 6G
Wiseless Enterprise
Connectivity
Automating Next Gen WLANs
Drivers for 5G Densification
Zero-touch 5G Automation
Wireless Charging & NFC
Wi-Fi 6 & 7 Trends for 2024
Wireless Sustainability
Letter from the Editor
IT & Telecom Technology News



Article Index



NEWSWIRE



Agi, for distribution



of Reference of the state of th



CONNECT WITH US

Follow @PipelineWire

Back More

Agi, Rot. distribution

Latest Issues









Advertising Placements

Sponsor Articles and Issues

View More Issues

TRENDING NEWS

Summit Communications Selects Juniper Networks

Full Story>

ProvisionAi Takes 88,000
Trucks Off Road in 2023

Full Story>

Nokia And Zayo Achieve New North American Distance Record

Full Story>

Nokia and Etisalat Complete Cloud RAN Trial Powered by In-Line Acceleration

Full Story>

Tenaka Partners with Orange Business to Restore Coral Reef

Full Story>

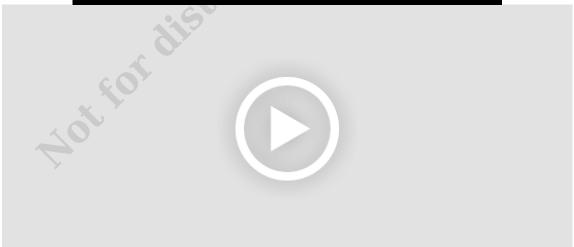
Nokia and NTT Demonstrate All-photonics Network Technology

Full Story>

View More News

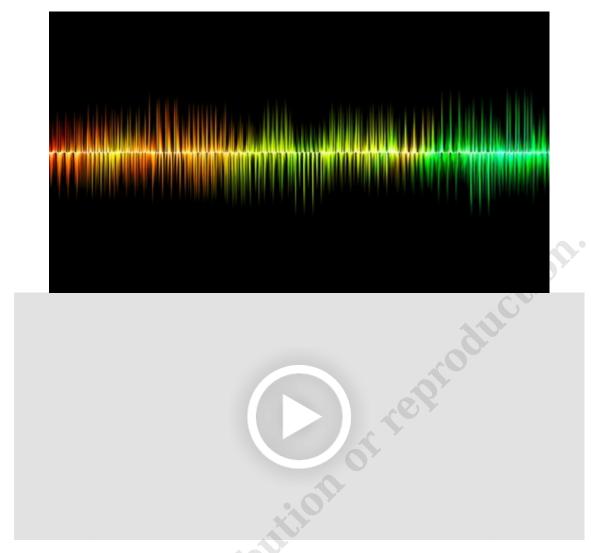
Featured Content





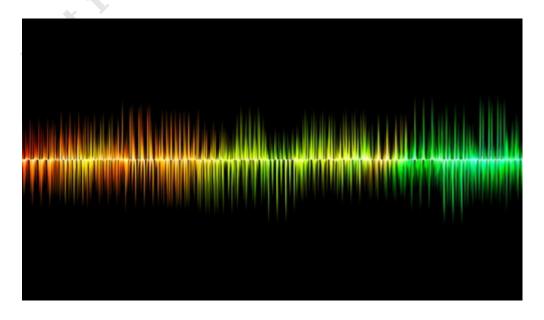
End-to-End Solutions for Broadband Networks

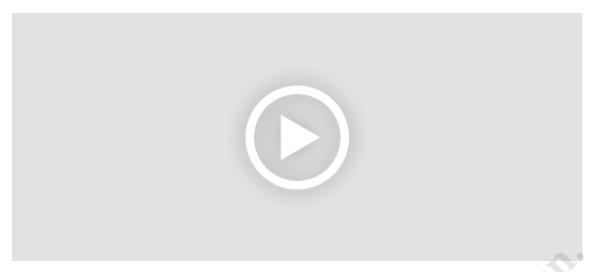
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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.





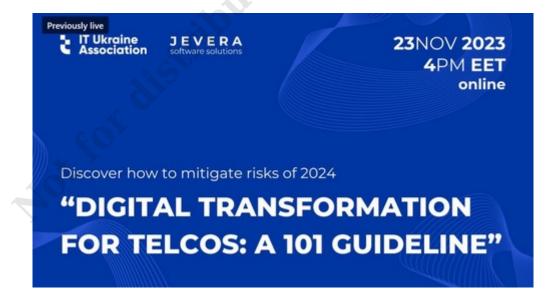
Podcast: The Evolution to 6G

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

0 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 30 C. All rights recorded.

Participate in Webinars

Join Next Webinar

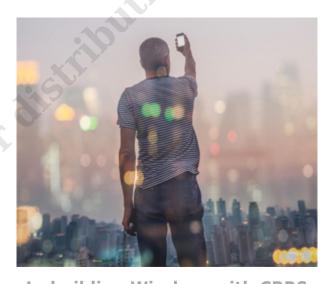
View More Webinars

Latest Articles



Satellite for Mission-critical IoT

Order Article Reprint Read More



In-building Wireless with CBRS

Order Article Reprint Read More



Charting the Course to 6G

Order Article Reprint Read More



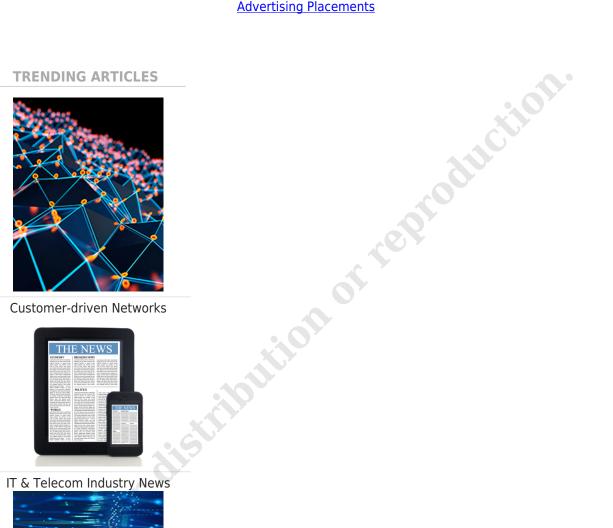
Wireless Enterprise Connectivity

Order Article Reprint Read More

Sponsor Articles

Advertising Placements

TRENDING ARTICLES



Customer-driven Networks



IT & Telecom Industry News



QoE for Smart Homes



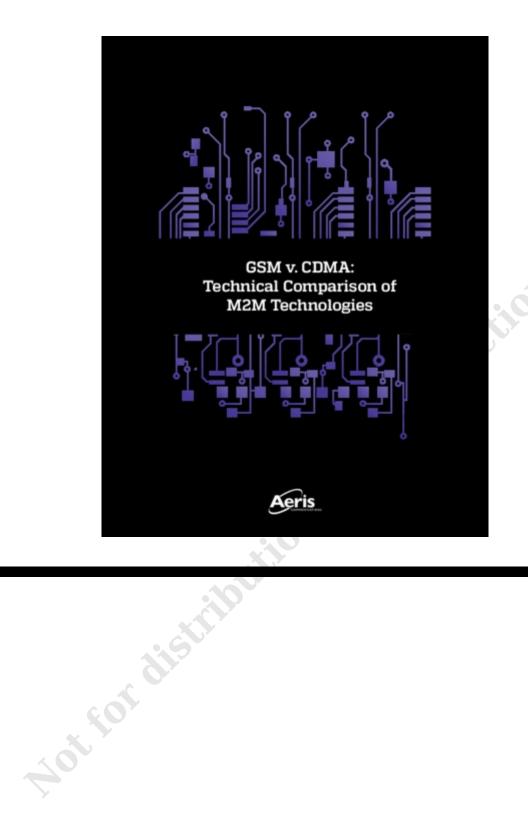
Telcos and Web3 Adoption



The Power of Access PoPs
View More Articles

Hot for dist

Other Featured Content





SPOTUGHT

Spo rso red by: Etiya

Customers expect organizations to be aware of their distinct preferences and to interact with them on an individual basis rather than as part of customer segments or groups. Providing each person with individualized messaging, offers, and products ensures a personalized customer experience.

Toward Superior Customer Experience: **Building Blocks for Personalization**

Written by: Eren Eser, Associate Research Director, Services, IDCT ürkiye

Introduction

Soft distribution

Customers have always wanted a hassle-free experience in their interactions with brands. In the meantime, customer expectations for smooth and enjoyable experiences are constantly changing and evolving due to the ever-accelerating pace of digital technology and advances in the market. In parallel with its growing importance among customers, customer experience (OI) has become a strategic concern for businesses. According to IDC's Future Enterprise Resiliency and Spending Survey, enhancing er experience was enterprises' top business goal globally for a five-month period (September 2021-January 2022, inclusive).

Customer experience now has significantly less friction thanks to developments in customer experience technologies across advertising, marketing, commerce, sales, customer service, and more. However, focusing purely on technological advancement without considering the human connection in CX projects hinders organizations in creating and sustaining emotional connections with customers.

AT A GLANCE

According to IDC research:

- · Improving customer experience is a top business priority for most
- Personalization improves engagement rates by 35-40% versus non-personalized communication.

KEY TAKEAWAYS

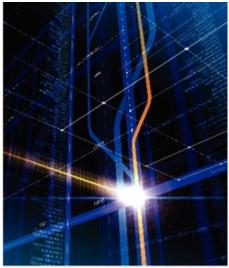
- Organizations can differentiate themselves and achieve a long-term

Differentiating by efficiency or product is doomed to failure. The return on investment for efficiency improvements will eventually be close to zero at some time in the near future. The capacity to differentiate at the product level has been hampered by technology because every new product feature or function can easily be copied by rivals and introduced to the market. Customers now consider brand experience their key criterion for choosing which items to buy and use, since they perceive less differentiation at the product level, with products essentially identical in terms of desired features.

- enterprises.

- Customers now view personalization as the default engagement standard.
- competitive edge by offering highly personalized customer experiences.





Accurate and up-to-date mapping is crucial to nearly every element of your business. Everything from network maintenance, emergency response, budget forecasting, and company valuation require these records to keep your company on course.

Relying on single point dependencies and perishable paper records create vulnerabilities for you customer, community and company. CHR's GLS, CAD Senices take the guess work out of geospaticl management and ensure your business is on the right path.

MANAGED GIS/CAD SERVICES





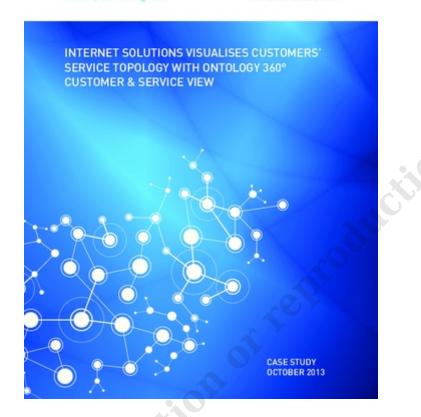
ph 713.351.5111 email info@CHRSolutions.com





Search, don't integrate.

Aot for distrib





inciion.

Mediation for the Changing Business Environment

Mediation as a BSS/OSS Interaction Layer in Anticipation of Telco 2.0

© Independent Technology Systems Limited 2009

All rights reserved.

The information contained within this document or application is the property of independent Technology Systems Limited (*Inec") which is confidential and protected by international copyright taxes and any insurherized used this document or application or its contents may violate copyright, trademark, and other laws. No part of this document or application may be photocopied, reproduced or translated in any form or by any means, or stored in a retraveal system or transmitted electronically or otherwise, without the prior within consent of lines.

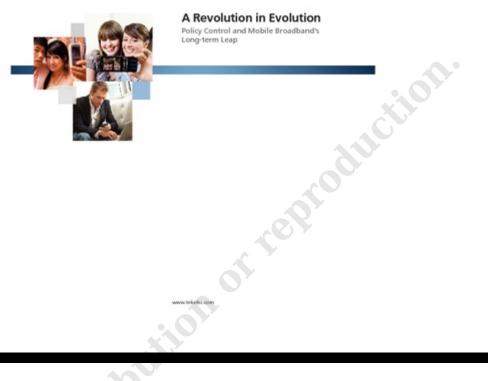
If you breach any of these terms, your authorization to use this document or application automatically terminates. You may not modify this document or application or its contents in any way or publicly display, perform, or distribute or otherwise use this document or application or its contents for any public or commercial purpose. Any use of this document or application or its contents for any other purpose other than as mutually agreed upon with Intex is prohibited.

Although every Eindeasour has been made to ensure that the information contained within this document or application is up to date and accurate, inter cranct be held responsible for any inaccuracy or enror in the information contained within this document or application, inter makes no warranty of any kind with regard to the information and inter shall not be liable for any direct, indirect, incidental or consequential damages which may arise in connection with the furnishing, reliance or use of the information contained within this document or application.

Specifications and statements as to performance in this document or application are Intec estimated, intended for general guidance. Inter essence the right to change the information contained within this document or application and any product specification and/or availability dates without notice.

Statements in this document or application are not part of a contract or program product license save insofar as they are incorporated into a contract or license by express reference, Issue of this document or application does not entitle the excipient to access or use of the products described, and such access or use shall be subject to separate contracts or license.

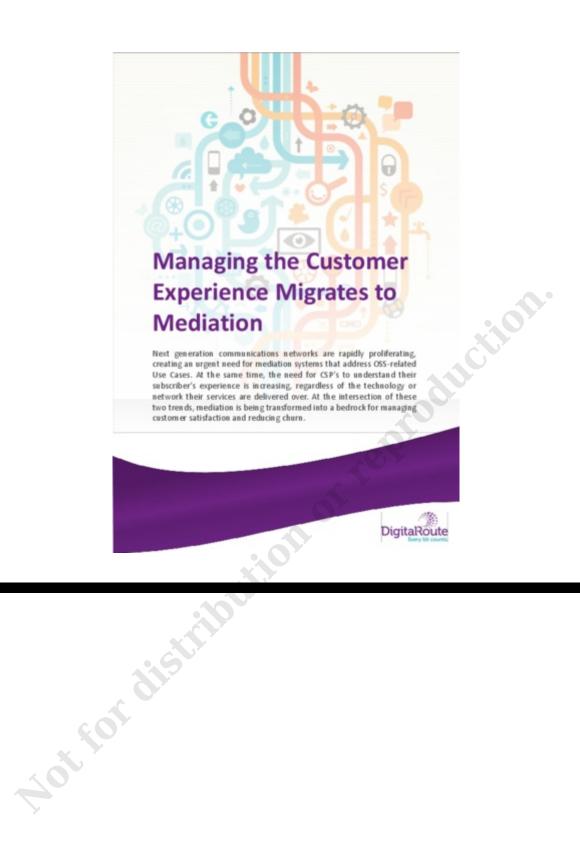




Rot distribute

A Revolution in Evolution

Policy Control and Mobile Broadband's Long-term Leap





WHY OPERATIONAL MANAGEMENT IN VIRTUALIZED DATA CENTERS IS CRITICAL TO DELIVERING SERVICE ASSURANCE

Most large enterprises' business processes require IT to function smoothly an efficiently, making a robust and predictable IT environment vital.

As underlying IT infrastructure evolves, management capabilities also must keep pace so performance and availability remain at or above promited service levels. Mitigating growing IT complexity and reducing business risk requires a management system that can provide end-to-end management and visibility for IT operations; assure accuracy and reliable remediation for configuration systems and changes; proactively deal with availability and performance problems better fivey impact users and service levels, and rapidly identify problem notificauses and deploy the right resources to quickly restone normal operations.

This EMC Perspective highlights why IT needs to provide service assurance; the management obstacles to achieving this, what's needed in an inhastructure management solution for enabling service assurance; the WEAC's Solution for Service Assurance delivers the management applicabilities required to meet these needs; as well as results and value being achieved by EMC outcareers.

EMC PERSPECTIVE

EMC²

Whitepapers



WHITE PAPER FAST ANALYTICS OVER SLOW DATA

VITRIA

Brochures



YOUR BILLING PROVIDER AGAIN.



Brochures



COLLECT. MONITOR. ANALYZE. VISUALIZE.



SSB Networks provides the fastest and simplest way to collect, mortive, analyze, and visualize lawful interception data. For more the: 20 years, we have been evolvings of innovating to match the changing needs of Communication Service Providers ICS Pall and Law Enforcement Agencies IE. Eastly, while debieving compenhenois solutions that a me any to use and optimize of for the best or such services.

Our solutions make analyzing, enriching and managing complax data sets simple, he lping LEAs stop organized crime, calchic minimals, and prevent terror attacks. For CSPs, we provide a trusted floundation for meeting regulatory or numerous efficiently and effect data.







Brochures

ction.

IP Video Services Accelerator

Sigma Systems' IP Video Services Accelerator is a robust solution enabling cable service providers to extend video service offerings to deliver an enhanced and unified entertainment experience.

Without a doubt, the enhanced entertainment experience over IP video networks is emerging as the "next big thing" for service provides as over-the-top (OTT) content, internet video and 3rd party applications continue to these encustomer logality. Gone are the days of just delivering traditional video offerings as cable service provides begin emb as ing the opportunity to create new business models and deliver an exciting, personalized multi-screen experience to subscribes. But without the proper supporting service fulfillment foundation, the accurate delivery of this experience is a significant challenge for cable service provides.



Simultaneous Linear & IP Vide o Provisioning & Support

The P Wideo Services Accelerator provides a service suffilment solution that simultaneously provisions and supports both linear and IP video networks to deliver-digital TV, PPV, VOC, DVRPVR, Internet Video, OTT content, and set party applications. This unique integrated CSS service management solution reliminates operational sibs and provides seamless order management, provisioning, and entitlement management across all sechnologies, services, and systems.

Simplify All-IP Video Migration

By supporting a hybrid linear and Pivideo network that provisions allivideo services, the PiVideo Services Accelerator gives you the ability to simplify and implement a logical migration at studgey from legacy to all Flivideo. Nou can manage this migration at the page of your business and benefit from the flexibility to migrate in stages by managed service area, network segmentation, and even customer profile. With the IP Video Services Accelerately you can lapidly abunch enhanced enterts in ment services and migrate linear video subscribers to a common OSS back-office solution when your business is ready.



White Paper

Orchestrating the Evolution to Cable IP Video





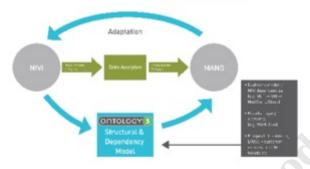


As NEV moves from labs and trials into production, the need to assure the services it delivers has become urgent, but legacy tools struggle to deliver because they are unable to abourb the new reality of automated, high-speed orchestration.

Ontology 5 builds a real time service topology across legacy, physical logical and virtual service components and uses It to power next-seneration service inventors and assurance functions for NFV hybrid and multidomain services.

This complete view of service elements, at all layers in the infrastructure in complex and high-automation environments, it indepensable to operationalising NFV, enabling functions such as:

- Service assurance and service impact analysis in
- . Coordination of multiple orchestration components
- Fault investigation
- required for functions such as order and trouble ticket management.



Building coherent and complete views of "legacy" infrastructure and services is a hard problem because of physicals and quality of the source data required to do so: It is spread out over many systems and is generated by processor with many manual steps that introduce noise. This is a problem that Ontology 5's Intelligent, 300 for National Operators has already solved.

The high-automation in virtualised environments will mean that data is of much higher quality "within eigh of those environments - but it will nevertheless come from a range of sources - VIMs, or chestradity will data optice management, and, of course, the CSS - and it will be much higher velocity data. OSS and network digitively staff to look like "big data": high velocity, high volume and high variety, Christopy S's real time features are ready to leakers that.

Cost-effectively combining these two worlds is what Ontology 5 does, so you can continue to know your network; now.

· +44 20 7239 49 49

www.ontology.com

□ info@entology.co

@OntologySystems

action.





cloud services

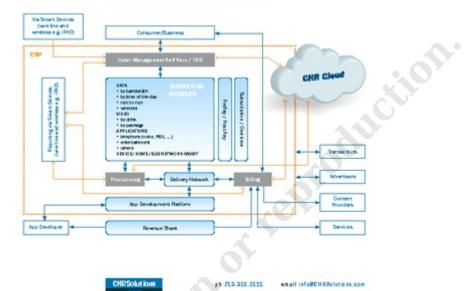
Leveraging the power of Cloud Services is cracial to the future of your company. With converging technologies and cripping competitive pressures, CKIPs Cloud offers asswers in ancestain times. Bit office your basitiess becomes only a question of flow high and how file you want the Cloud to carry you.

GENERATE NEW REVENUE

A distribute

WITH CHR Solutions' Cloud Services, the sky is the limit. Drive down operating costs, improve efficiencies and create new revenue streams to elevate your business.

Over the last several years, CHR has constructed a leading edge cosystem which supports advertising, applications, termactions, services and content. This ty neighbic environment offices limities opportunity for cealing new energies without the capital expensi







Web Sites Customer Sites Country/Regions Industrys **Fartners**

Mohave Wireless, LLC no lavewheles.com 15,000 subsorbers Info Directions Inc.

Customer Profile Mohave Whelessis a sural cellular communications company that provides voke and data service own a COMA metwork in Mohave Wheless County of

Bariners Struction

Mohave Whelescoweded to eliminate manual processes related to orders, fulfillment and collections and gain greater with billy into their billing processes.

Solution The Cootian of C65/1955 software solution form the Chieckins manages utiling billing, workflow, cathonic circ, martion, collection, code manage-ment and selling activities to produce efficiencies froughout the lect office.

- Captaned over \$400,000 in lost sevenue
 Ulinizated manual billing processes
 Reduced near Attansaction times by 25 percent
 Inneed maniet advantage in the ability to offer

Rot distrib

Communications Provider Retrieves over \$400,000 in Revenue, Cuts Transaction Time by 25 Percent

Mohave Wireless is a rural cellular communications company that provides woice and data service over a CDAM network in Mohave County of northwestern Arizona – a market that includes Kingman, Bullhead City and Lake Havasu City. Providing local cellular service since 1992, Mohave Wireless is committed to delivering enhanced phone service including robust voice and call quality, while providing the latest mobile products and services to its subscriber base.

With approximately 15,000 subscribers and nine vetall locations, Mohave Wheless was experiencing exor-

Construction which were provinted by operating on a billing system that was not usen blend by on installate. Employees were furctioned with the amount of size is to intern to enter a simple order and were spending enter time grathening-custome information on a payor to lives velay into the system. The previous solution would find the supplement of each of the care cell interfero but the studied is inconstructed described to be connected menusely. With this system, billhuss were always occurring one specifically and did not allow the company the flooding of managing their own tillings and what the follows Witheless was sent things a way to eliminate respectively processes and custom as infermious for proceeds most using and management of order, with maximum efficiency and speed while seducing the time and countries. to speed on such processing.

Simultaneously, the tone perywership to ensure that it was organing and consolly assuming usage over-ages that they could not distinguish with their current solution, be descript understood that it models as automated system that could effect their manager rating, filling, CIM and was longerations. In its growing sufficiely have

The spots shart Michae Wielem adopted is the Centionard OSSESS solution from Info Directions.

Confloand menages string, billing, workflow, casteries case, iteration, collection, order menages may be present and alling pages of this force murantions service providers, to Web-hand solution both manages billing support functions and provider was able to this solutinety of features to appear for automation features to produce efficiencies throughout the back follow.

The two comparises pixtly were lasted each step in follows Whelesch flushment customer care, and lanck inp., Told Directions on agreed and principles, and of the free force of the services and confidency, "as id Jill Proven, fir I learned Asserting which may be for the services throughout the back of the following and indick inp., Told Directions on agree indicates the place and customer to service were reported of the services throughout the back of the services of the services and continued to the services of the services and the services and making the facility of the services, which were provided and making the providers which the providers and making the providers which the providers with the providers and making the providers with the providers with the providers and making the providers with the providers and making the providers. Which the providers with the providers and making the the providers with the providers with the providers and making the providers. With the publication of the providers with the providers with the providers and making the providers. With the providers with the providers with the providers with the providers and making the providers. With the providers with t





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 converging 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 (RB, CAD services empower the diention also more informed decripion with air time and referent data. CHIT DB, CAD is solable and highly outstorable because 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.

is in the state of the state of

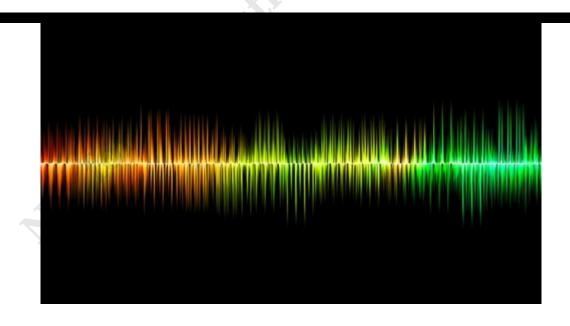
CHRSolutions ph 713.351.5511 email info@CHRSolutions.com

The Balancing Act of Mobile Workforce Management

FULFILLING MULTI-SERVICE OBJECTIVES WITH PRIORITY-BASED OPTIMIZATION

A ViryaNet White Paper





Upload Content

View More Content

© 2024, 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 distribilition of the production.