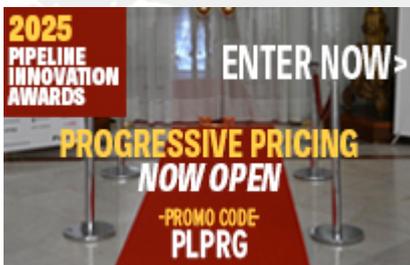


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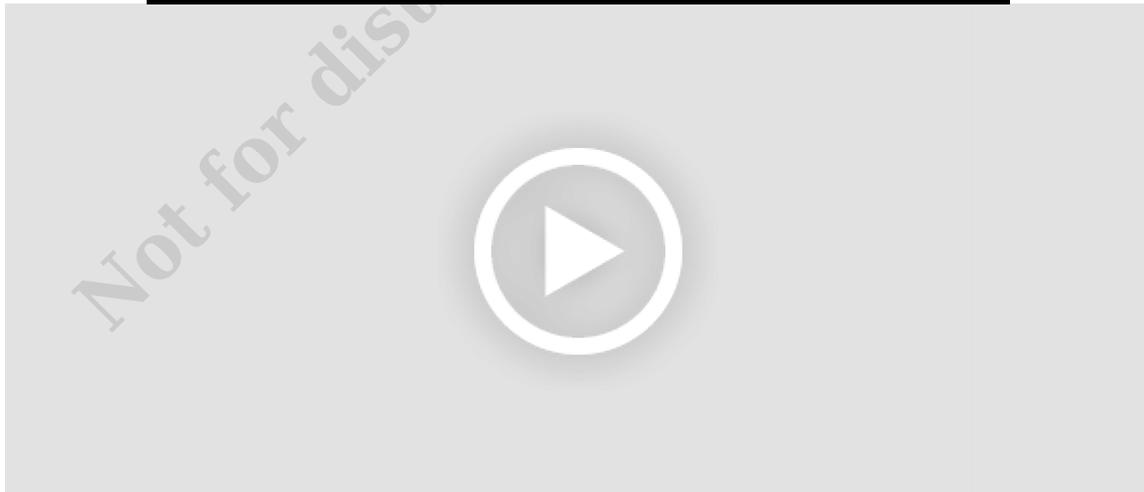
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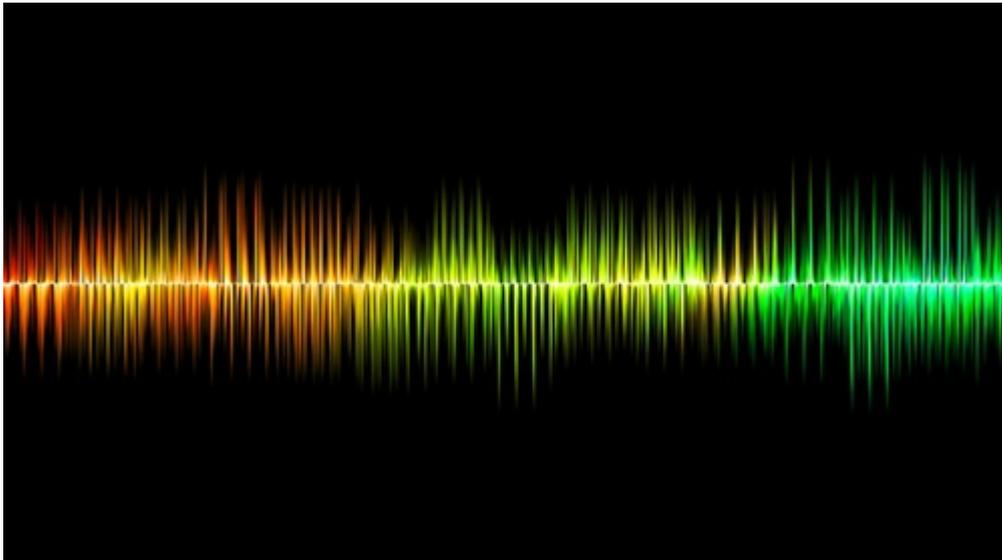
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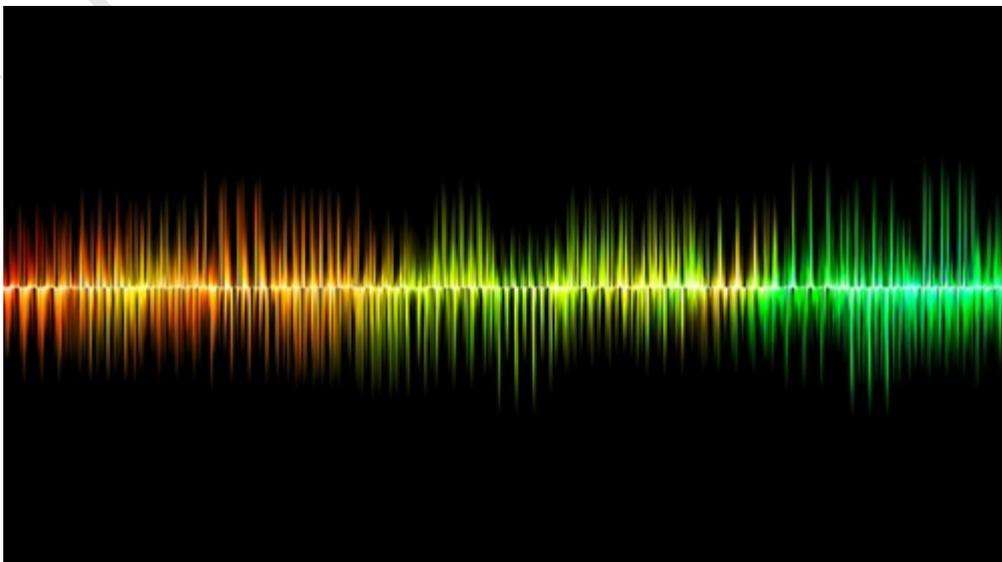
End-to-End Solutions for Broadband Networks

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



Predicting Colonial Pipeline: Mitigating Risk and Compliance

Mitigating risk and compliance for lawful intercept using lawful intelligence is explored in this Pipeline article feature SS8. Learn how CSPs can comply with lawful intercept regulation, while empowering law information with critical, real-time data.





Podcast: The Evolution to 6G

The world's eyes are already looking forward to the potential of 6G. Demands resulting from innovative use cases, for instance specific requirements from different industries and other user groups, as well as overarching goals like sustainability, are driving the standardization and development of mobile technologies.

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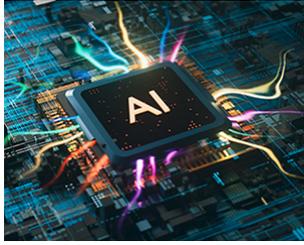
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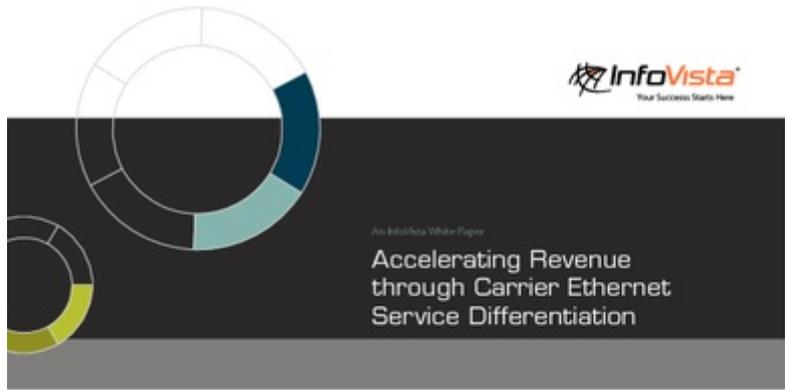
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Navigating the Chaos: Identity Access and Configuration Management Strategies for SDN & NFV



SS8 FOR COMMUNICATIONS SERVICE PROVIDERS

SS8

COLLECT. MONITOR. ANALYZE. VISUALIZE.

Compliant, Scalable and 5G-Ready Lawful Interception

SS8 Network Services is the fastest and simplest way to collect, monitor, analyze, and visualize law-enforced traffic data. For more than 20 years, we have been innovating and evolving our solutions to help CSPs, how communications service providers (CSP) meet regulatory requirements and local law enforcement needs.

We provide a powerful platform for monitoring and data extraction across voice, messaging, internet, fixed, mobile and over-the-top (OTT) communications services in real-time. Our solutions simplify data capture and ensure CSPs can scale to meet the demands of cloud-based communications, Internet of Things (IoT), and a growing number of networking technologies.

EXTRACT, COLLECT AND DISTRIBUTE DATA IN REAL-TIME

- Supports 3G, 4G, VoLTE, MPTT, IoT, Broadband P and other legacy services.
- Provides complete summarization records for Packet Data Gases to serve growing data volumes.
- Location Services solution designed for Lawful Intelligence.
- Supports several network architectures, communications services and complex call flows.
- Supports in-network, virtual or cloud deployment options.

ACTIVE IN **35** COUNTRIES
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We work with 8 of the world's 14 largest communication service providers.

150 VENDOR INTERFACES
Prove network equipment interoperability with over 150 vendor interfaces to expedite deployment.

Xcipro

SS8's Xcipro platform ensures CSPs not only meet regulatory compliance, but are able to provide the most accurate data to intelligence agencies in real time.



TRANSFORM YOUR BUSINESS IN THE CLOUD

Extend your network perimeter to the cloud with dedicated and private connections to AWS, Google, Azure, Oracle, and IBM — using Telia Carrier's global backbone.

CONTROLLED CLOUD CONNECTIVITY

Using our direct connections to the major cloud providers, we provide you with a secure on-ramp to the cloud. Cloud Connect is a private and dedicated connection that bypasses the public internet — giving you more control of your bandwidth, with high levels of security and reliability.

FLEXIBLE PRICING

We offer flexible pricing options to accommodate your changing bandwidth needs. You have the freedom to modify contract terms at short notice and configure your

connection to suit your business needs. The service options are easily accessible by using our online portal with simple purchasing options.

REACH MULTIPLE CLOUDS AT SCALE

Cloud Connect allows you to use a single port to connect to one or multiple cloud providers — making it a cost-efficient way to scale cloud connectivity. Your bandwidth needs for cloud usage will always be serviceable as we operate with ample capacity to ensure our global backbone is optimized for highly scalable, burstable workloads.

DID YOU KNOW?

You can order your Cloud Connect service in less than 1 minute, using our online portal MyCarrier!

BENEFITS IN BRIEF

CONTROL

Your traffic traverses our global backbone, bypassing the public internet. Providing a more predictable cloud experience.

FLEXIBILITY

Our pricing model accommodates your changeable bandwidth needs, with choice of 1Gbps and 10Gbps ports and freedom to change contract terms on short notice.

SCALABILITY

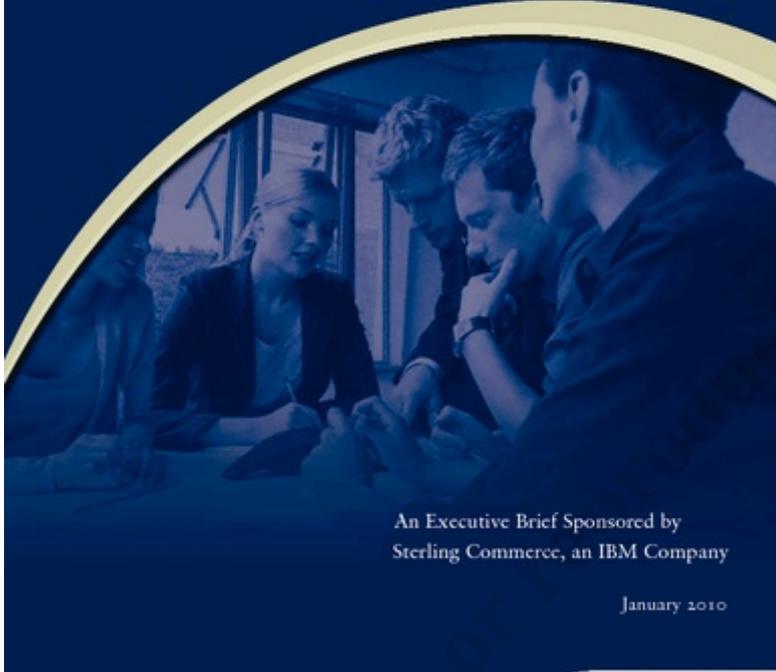
We have ample capacity on our backbone to support bandwidth-intensive workloads.



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CUSTOMER ORDER ORCHESTRATION –
CROSS-INDUSTRY 2.0 BUSINESS MODEL ENABLEMENT



An Executive Brief Sponsored by
Sterling Commerce, an IBM Company

January 2010

www.frost.com

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Prepared for Progress Actional
February 2009

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

Implemented by a communication and media service
provider

Project Directors: Paul Devine and Sebastian Seihorst

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Whitepapers

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Info Directions Earns Place on Inc. List as One of America's 5,000 Fastest-Growing Private Companies

5,000 Fast-Growth Companies Report Aggregate Revenue of \$214 Billion

VICTOR, August 13, 2009 – Inc. ranked software engineering firm Info Directions, Inc. on its annual ranking of the 5,000 fastest-growing private companies in the country. The list is the most comprehensive look at the most important segment of the economy – America's independent-minded entrepreneurs. Taken as a whole, these companies represent the backbone of the U.S. economy.

"Our third annual Inc. 5000 continues the most ambitious project in business journalism," said Inc. 5000 Project Manager Jim Melloan. "The Inc. 5000 gives an unrivalled portrait of young, underreported companies across all industries doing fascinating things with cutting-edge business models, as well as older companies that are still showing impressive growth."

Established in 1996, Info Directions is an Independent Software Vendor (ISV) that designs, hosts and installs billing, CRM and point of sale solutions for mobile, wireline and IP-based telecommunications service providers. Info Directions' software solutions, including its benchmark CostGuard® and Lexys Point of Sale™ products, help service providers eliminate the complexity of selling, activating, managing, billing and caring for customers. Info Directions also appeared on the Inc. 500 list in 2001.

"It is rewarding to be recognized by Inc. for accomplishing our strategic growth initiatives. We share this Inc. acknowledgement with our clients, who leverage our software solutions to create the new business models and superior customer experiences that drive both their growth and ours," said Don Culeton, president of Info Directions. "Innovation is one of the primary tenets on which Info Directions is built, and appearing on this list reinforces the importance of investing in our position as a leading developer of telecommunications billing, CRM and point of sale applications."

Despite the ongoing recession the aggregate revenue of the 5,000 companies that made the list increased to \$214 billion, up \$29 billion from last year, with a median three-year growth rate of 126 percent. Most important, the Inc. 5000 companies were engines of job growth, having created more than 1 million jobs since those companies were founded. Complete results of the Inc. 5000, including company profiles and an interactive database that can be sorted by industry, region, and other criteria, can be found on www.inc.com.

Whitepapers



Cisco IP SLA Management
Application Note



Brochures

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Wednesday November 5, 2014				
TIME	SESSION	SESSION TYPE	DEMO AREA	BOARD ROOMS
7:00pm - 11:00pm	Speed Networking Cocktail Reception	Networking		

Thursday November 6, 2014				
TIME	SESSION	SESSION TYPE	DEMO AREA	BOARD ROOMS
8:00am - 9:00am	Networking Breakfast	Networking		Open
9:35am - 10:00am	Opening Remarks	General	Setup	
10:00am - 10:45am	Service Provider Perspectives: Contending with Key Challenges (Featuring: AT&T, BT, Comcast, Level 3 and Verizon)	General		
10:45am - 11:15am	Networking Break	Networking	Open	
11:25am - 12:00pm	Advanced Customer Experience Management (Featuring: Amazon and CT Invision)	General		
12:00pm - 12:45pm	Leveraging Big Data for Enterprise Business Intelligence (Featuring: Microsoft and Skype)	General		
12:45pm - 1:45pm	Topic Roundtable Luncheon	Networking	Open	
2:00pm - 2:45pm	The Agile Architecture (Featuring: Dr. Tom Wisa, CT Invision and Tello)	General		
2:45pm - 3:30pm	Delivering Elastic Services (Featuring: AppleCare, Comcast and TIERONE)	General		
3:30pm - 4:00pm	Networking Break	Networking	Open	
4:00pm - 4:45pm	The New Networks (Featuring: Yahoo and ASB)	General		
4:45pm - 5:30pm	Transformation: Managing the Evolution to Virtual Networks (Featuring: CT Invision and ASB)	General		
5:30pm - 6:00pm	Pre-Dinner Break	Break	Open	
6:00pm - 7:00pm	Networking Dinner	Networking		
7:00pm - 10:00pm	Evening Entertainment	Networking		

Friday November 7, 2014				
TIME	SESSION	SESSION TYPE	DEMO AREA	BOARD ROOMS
8:00am - 9:00am	Networking Breakfast	Networking		Open
9:35am - 10:15am	Market Analysis: Industry Insights (Featuring: AppleCare, CT Invision and NPRO)	General		
10:25am - 11:15am	Risk Mitigation: Advanced Security Planning (Featuring: Level 3, NPRO and Verizon)	General		
11:25am - 12:15pm	Competitive Edge: Leveraging Content and WebRTC (Featuring: AppleCare and Genband)	General		
12:15pm - 1:15pm	Networking Lunch	Networking	Open	
1:25pm - 2:15pm	Users Den - Sessions 1 & 2	Interactive		
2:25pm - 3:15pm	Users Den - Sessions 3 & 4	Interactive		
3:25pm - 4:15pm	Users Den - Sessions 5 & 6	Interactive		
4:25pm - 5:00pm	Editorial Calendar Input	Interactive		
5:25pm - 5:50pm	Closing Remarks	General		

*Note: Agenda is subject to change based on input from Pipeline's Industry Advisory Board (IAB), attendee feedback, and presenters. Please check for updates.

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Brochures



Building the Future with **Broadband**



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.

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Introducing our New State-of-the-Art Geographic Platform

One of the ultimate goals of Broadband providers is to bring fast, reliable service to their customers, who are often located in rural parts of the country. Connecting unserved or under-served communities through broadband technology improves their way of life and closes the digital divide. But doing so can be costly and time consuming.

What if there were a way to make it all easier by streamlining each phase of your network implementation, improving decisions by using real-time data and therefore optimizing your current and future operations?

CHR Solutions is a proven industry leader with over 75 years of experience and we have found a way to expedite your builds, decrease labor costs, forecast in real-time, and increase monetization to speed up broadband access to rural America.

Geospatial Data is Not New— But the Way We Use It Sure Is.

By using Geospatial data in a unique way, we provide our clients with a platform that utilizes real-time information to improve efficiencies, take the guesswork out of decisions, and ultimately increase speed to market. The platform features a customizable dashboard that enables all aspects of your business to format and display the data in a way that optimizes its use in their specific operations.

CHR's Geographic Platform

- Improves efficiencies
- Takes the guesswork out of decisions
- Increases speed to market

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



by Arindam Banerjee | April 2009

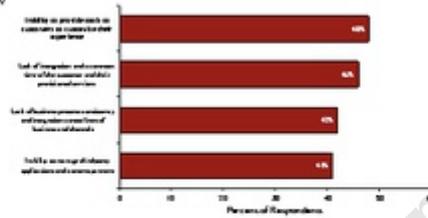
Executive Summary

The customization and convergence of services across application silos and disparate networks are critical to communications service providers (CSPs) aiming to provide innovative services, reduce customer churn and drive average profitability per user. CSPs realize that providing innovative services is not enough; it is critical to offer end users customized services with consistent and flawless quality of service (QoS), which is impossible without an end-to-end unified customer- and service-level view. This is where most service providers falter. Our research clearly points out the glaring problems that exist with most service providers' back-office OSS/BSS systems, which are typically complex, disjointed and lack the agility necessary to present a coordinated 360-degree customer-centric view. In a recent global CSP survey conducted by Yankee Group, more than 60 percent of surveyed global CSPs agreed that improved customer experience is directly linked to improved ARPU.

Most service providers take a top-down approach to express customer and service views. However, they often adopt a service model that in most cases does not capture the complexity of misaligned as well as heterogeneous underlying infrastructure. Only when the relationships among underlying systems, services and customers are mapped out of the infrastructure is it possible to achieve the goal of traditional service modeling. Therefore, what is needed today is a bottom-up approach that looks at how existing systems map to existing customers instead of a more traditional top-down approach.

CSPs have invested billions to streamline and modernize their OSS/BSS infrastructure to achieve the agility required to see all of their assets in one view, which in most cases has failed to deliver the desired service-level transparency. Exhibit 1 illustrates the critical factors inhibiting CSPs from being competitive and delivering innovative services to customers. Not surprisingly, the inability to have a common view of customers, lack of customized service delivery and business process inconsistency are the top factors that hamper service providers from rolling out innovative services.

Exhibit 1.
Critical Factors Inhibiting CSPs from Being Competitive and Delivering Innovative Services
Source: Yankee Group, 2009



In light of current economic challenges, it is clear that telecom service providers are squeezing their capex budgets to align with lower revenue growth expectations. Hence, although a unified end-to-end service model remains on top of their priorities to instead of full-scale and expensive transformation exercises, CSPs and managed service providers are looking for an alternative low-risk, incremental path toward a unified service model. In this report, we look at CSPs' current operational issues, take a deep dive on a unique, alternative semantics-based approach toward achieving a unified virtual service model, and investigate how such an approach can enable customer centricity by solving the problem of siloed infrastructure data.

This custom publication has been sponsored by **Drinking Systems**.

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Technology for Service Providers

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HARNESSING THE
POWER OF
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INTELLIGENCE

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The Business Potential of NFV/SDN for Telecoms

How a Network as a Distributed Cloud can Reshape Itself to Better Serve Customer Applications

What will you learn

- What are the potential benefits of implementing Network Function Virtualization (NFV) and software-defined networking (SDN)?
- How to transform the (access) network towards a distributed cloud platform capable to reshape itself dynamically to better serve customer applications?
- How to run network functions and customer cloud applications on the same hardware?
- What are the benefits of colocating network functions and customer applications for improving customer experience?
- Why is it essential to implement control via policies in the NFV/SDN scenario?
- How does BSS/OSS support NFV and why should OSS work in real-time?

Network Function Virtualization (NFV) appears to be a very promising, yet very disruptive, technology. At its simplest, NFV is about decoupling software from hardware and enabling the implementation to run on a form of commodity hardware. In other words, it means placing network functions (NF) in the cloud.

The Potential Benefits of NFV/SDN technology

From the perspective of network operators, the new technology entails the ability to become a real cloud provider in a new sense, where a network is no longer simply an access network to data centers. On the contrary, the network can become a cloud serving as a platform for customer applications, and it can dynamically reshape its architecture to meet customer needs. This revolution is possible thanks to combining NFV and software defined networking (SDN) technologies, which means that networks can adapt by being reprogrammed. Moreover, network nodes can also become part of distributed data centers that not only can host network functions, but also host applications. From the perspective of customers, this means that applications can be moved "closer to the customer," entailing lower latency and higher speed, thus leading to better customer experience.

The technology also promises to open the network to innovation from the software developer ecosystem. Instead of rigid networks that are difficult to adjust to different application needs, the network is to be programmable, ready for the era of the Internet of Things (IoT), where applications can have their own virtual networks programmed.

From the cost savings point of view, the liberation from dedicated (expensive) hardware in favor of commodity (cheap) hardware promises to reduce CAPEX (capital expenditure). Also, the idea of a purely software-based network reconfiguration should reduce OPEX (operational expenditure). This may not be that obvious if one of the goals is to make the network more dynamic, reshaped to meet the needs of applications and thus be much more complex to control, when a traditional approach to network management is taken.



From the cost savings point of view, the liberation from dedicated (expensive) hardware in favor of commodity (cheap) hardware promises to reduce CAPEX (capital expenditure). Also, the idea of a purely software-based network reconfiguration should reduce OPEX (operational expenditure).

telecoms.comarch.com



WITCOM deploys open multi-vendor solution to power smart city initiative

Secure open platform powers edge cloud for IoT, video and next-gen services

WITCOM provides business customers, government institutions, and ITC service providers in Wiesbaden with professional telecommunication services and secure data center services. Now WITCOM is deploying an open uCPE platform as an edge cloud to host smart city services, including IoT, traffic control, surveillance, and wholesale services.

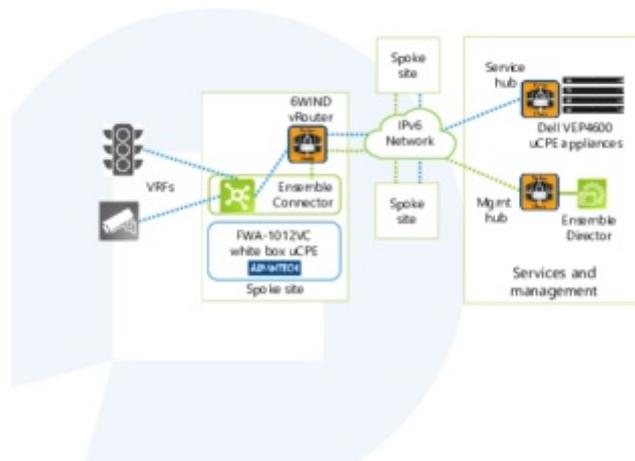
With network functions virtualization (NFV) and universal CPE (uCPE), smart city operators like WITCOM can rapidly and efficiently deploy next-generation services. And once the uCPE servers and software are deployed, the operator can use it as a platform for innovation. New services can be added dynamically, without changing the deployed hardware, drastically increasing the rate of innovation.

Adva, as a service provider in continental Europe, assembled a solution using best-of-breed suppliers to power this innovative deployment. Working together, the suppliers teamed up to meet WITCOM's stringent requirements for performance, cost, ease of deployment and security.

The solution is deployed on a central hub site as well as remote spoke sites (as shown below).

Security is an essential element of the solution, and is provided by the GWIND Turbo IPsec vRouter. The vRouter is deployed in virtual machines (VMs) at each of the spokes, and at the hub as an aggregator.

The spoke sites are located in outdoor cabinets featuring the widely adopted FWA-1012VC white box uCPE from Adva. This optimized and sensitive appliance integrates the Intel Atom® C3958 processor (8 cores), and 2x 10Gb SFP and 6x 1Gb RJ45 interfaces, providing sufficient compute headroom and flexible connectivity to meet edge site requirements.





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- 24x7 Support
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- Improved Efficiencies
- More Time to Focus on Your Business

We focus on your network so you can grow your business.

CHR's Managed IT Services is a comprehensive suite of managed solutions that help drive down operational costs and free clients from capital constraints and resource restrictions. Whether you're looking to install your first computer network, support an existing network, or expand your current technology, we are 100% committed to making sure business owners have the most available and professional IT so they can concentrate on growing their business.

“CHR's IT team is consistent, skilled and extremely knowledgeable about what they do. Having them here and being proactive in what we need, plus the time-saving factor without us trying to “fix” our own IT needs allows us to be so much more productive and happy.”

— Terri B. Haddington Ventures

Cybersecurity

We protect your most sensitive data by equipping your business to detect and stop cyber attacks. We offer capabilities of firewall, security, and vulnerability management to help you protect your customers and network.

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We offer services to secure and optimize your IT infrastructure. Monitoring solutions include processor utilization, proactive remediation for monitored environments, disk utilization, patch management, and more.

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Quality customer support for something as critical as your IT is a must. We staff a team of seasoned IT experts to help enhance the level of customer satisfaction, as well as help you increase productivity, improve resolution times, and meet compliance standards.

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Our Cloud Solutions offer a flexible and affordable solution that allows businesses to connect to their office and clients across the country. Along with our Managed NOC Services, we can provide you with a team of engineers to help us and optimize your cloud operations.

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