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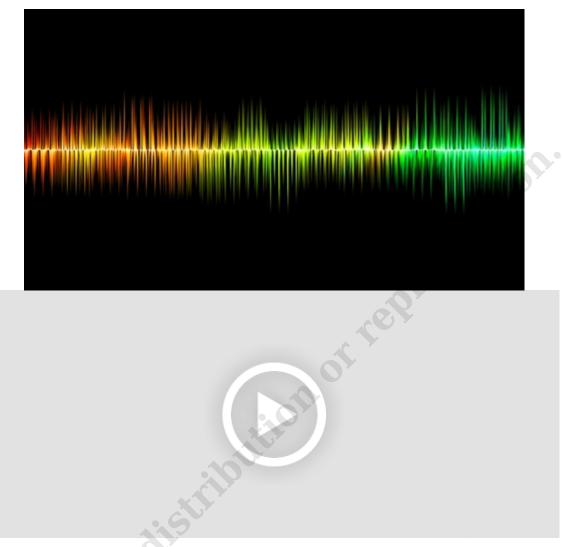
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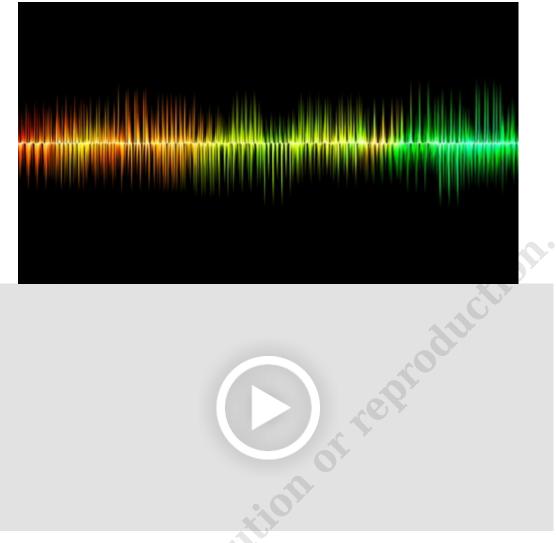
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Predicting Colonial Pipeline: Mitigating Risk and Compliance

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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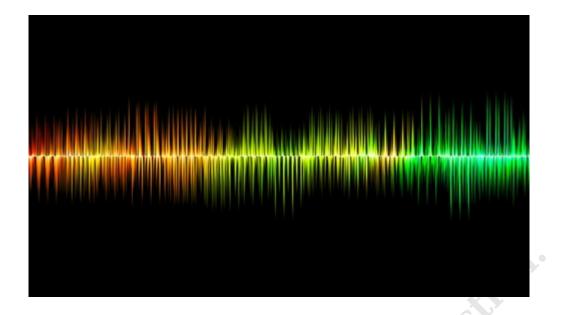


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Info Directions Earns Place on Inc. List as One of America's 5,000 Fastest-Growing Private Companies

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 independentminded 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 Melioan. "The Inc. 5000 gives an unrivalled portrait of young, underreported companies across all industries doing fascinating things with outling-edge business models, as well as older companies that are still showing impressive growth."

Established in 1996, Into 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. Into Directions' software solutions, including its benchmark CostGuardB and Lexys Point of SaleTM products, help service providers eliminate the complexity of setting, activating, managing, billing and caring for customers. Into 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 Guleton, president of Into Directions. "Innovation is one of the primary tenets on which Into 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 128 percent. Most important, the line, 5000 companies were engines of job growth, having created more than 1 million jobs since those companies were founded. Complete results of the line, 5000, including company profiles and an interactive distabase that can be sorted by industry, region, and other criteria, can be found on www.inc.com.

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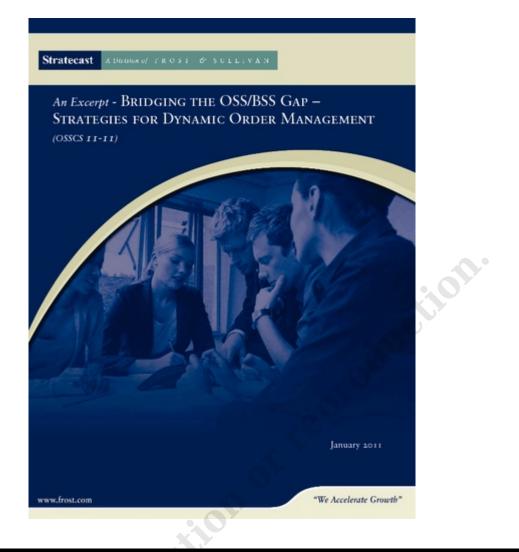
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Cellular One of Northeast Arizona Selects Info Directions' Billing, CRM and Point of Sale Solution

integrated OSSBSSPOS solution to help trailities-based wireless provider improve operations and enhance service value throughout its customer support and retail units

LAS VEGAS, CTIA WIRELESS (April 1, 2009) — Into Directions, Inc. (booth #5706), leading developer of net-certric billing, rating, order management, workflow and setting solutions for the telecommunications industry, is pleased to announce that mobile service provider Smith Bagley, Inc., aba Cellular One of Northward Arbona has selected its CostGuard® OSS/IISS software application and Lexys. Point of Sale module. Smith Bagley, Inc. will use the company's line of software solutions in the Into Directions ASP to manage using, billing, CRM and retail operations for its growing subscriber barse.

Smith Bagley, Inc. dba Cellular One of Northeast Arizona is a rural cellular communications company that provides voice and data service over a GSM reheard. In northeast Arizona, southern Utah, and northeast New Mexico. Providing service since 1990, Smith Bagley, Inc. is committed to offering its more than 80,000 subscribes the latest in phones, accessories, confert and services for mobile communications.

With the implementation of the Cost/Guard OSS/ISS and tuty integrated Lexys Point of Sale module, Smith Bagiey, Inc. will have the ability to secure a single view of customer activities and purchases from both its headquarters location and throughout its network of more than 20 retail locations. The company will leverage the shared Cost/Guard and Lewys Product Gatalog to stimamine the launch of new products and services and cerule upselling and cross-selling opportunities using Cost/Guard's patient gending Guided Assignment leafure.

We look torward to using CostGuard to further our mitation of providing our customers with cutting edge products and services – from handberts to laptop alreads and everything in between. Having an integrated billing, CRM and point of sale solution gives us the intradiructure needed to improve our operations and respond quickly to the evolving demands of our subscriber base," said Melkaa Covington, Director of Technical Operations of Smith Bagley, Inc. "We are pleased to find a partner like Into Directors that is committed to serving the rustly viewes maket. We anticipate building a long and merutually beneficial partnership with Into Directions."

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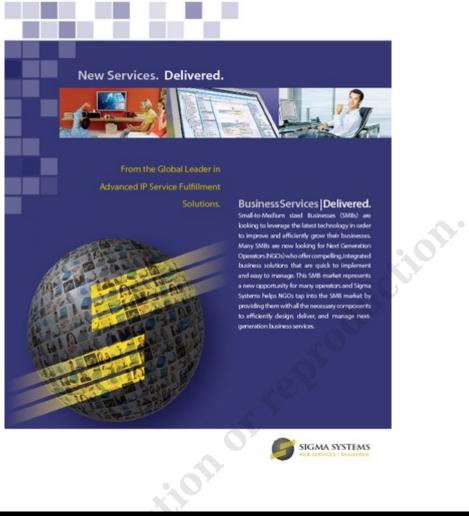
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CONNECTED SERVICES



From wireless to wireline networks, CHR has the insight and expertise that empowers the services connecting customers and communities. We stand ready to partner with you on all your project needs—from concept to construction. Whether you're deploying new networks or launching next-generation services, from funding to field services, CHR is with you every step of the way.

CHR's Connected Services provide the platform for next-gen networks and brings them to life. Our expertise in execution enables IP evolution –guaranteeing improved network reliability and scalability to support the services that maximize ARPU, reduce churn and generate new revenue while achieving regulatory requirements and reducing CAPEX.



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Stelia Corrier

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.

THE OVERLAY AND UNDERLAY: A

THE OVERLAY AND UNDERLAY A PUNCTIONALIS GOOD A suitainable alignment between the internet underlay and the inselligent SD HIMM overlay will bear the potential to optimize nework stability and performance while scaling flexibility for the film den the reserve

Data generated by DevOps pipelines can traverse our internet backbon e network with feeet hops compared to other internet service providers. We directly connect more than Whi of the

global internet routing table, making

us the world's best-connected internet backbone network.

PART-NERSING-CUCTURALEFT Technology partnerships are critical for building the right DevOpe environment. We understand that enterprises expect field/bills, responsiveness, and reperture from sis. We resure culturense are always close to the technology of SD-WAN with no unnecessary layering in between.

We help accelerate DevOps journeys with We help accente De Ops journeys with better internet access and a structured liseed on-boarding process to help outcomers deploy a functioning SD-WAN solution and experience a multitude of benefics.

PARTNER SHIP: CULTURAL FIT

DevOps deployments.

ENTERPRISE DEVOPS

ENTERINGE DEPOPS Enterprise DevOps (average) are diverse, Some journeys start due to estimutal ricks, some due to a significant need to cut costa, and others begin with big investments to unlock new business opportunities, Whatever the mason for large global enterprises, embracing DevOps is a transformative cultural technology journey, focused on agility and continuity of delivery.

SD-WAN: BOOST AGAUTY

SD WAN provides an opp or tunity for enterprises to build, control, and manage enterprises to build, control, and manage an intelligent overlay network for better interguiton with cloud and internet environments. Through application awareness, automated policy control, aren-touch provincining, 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 critical to the DewOps flow and set of practices based on continuous experiment action and Feedback loops. Tella Carrier's SD WeN 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.

TEST ENVIRONMENTS

Using zero-touch provisionin DevOps can have a new secure connection for testing environments within minute huction.

O/CO PIPELINE

Deploy application on any platform, with consistent user experience.

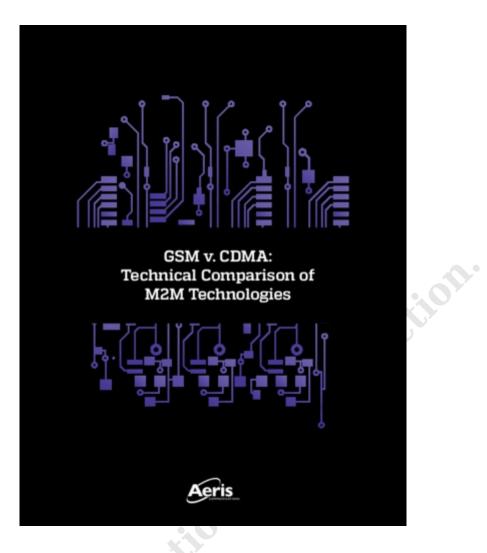
AUTOMATION

Automation of mar networking tasks helps DevOps on their own.automation journey.

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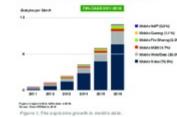




W²CM Smart Replay

INTEROUCTION

In the UCL ION Along with the phenomenal growth in volume of data on the mobile Internet, there has been an increase in the different types of data flowing through wireless networks. In addition to traditional types of data, acch as life transfer protocol (FPR), peptriest transfer protocol (HTIP), volce-over hierard protocol (VolP), e-mail and video streaming, there has been a constraintly increasing list of overthe-top (OTI) smarphone applications generating new types of data, including peer topen (PSP) data from applications which in turn contribute to the variety of data on wireless returneds.



This wast amount and wariety of data has created a need for it to be managed effectively. There are several motivating factors to do so, chief among them being:

- Honoring service-level agreements (SLAs) and delivering committed quality of service (QoS) to customers
- Efficiently managing network resources
- Generating revenue as opposed to being just a "dumb pipe" for data
- > Securing the network

Let's look at each one of these aspects in a little more detail.

Providentities SLAS with their customers to guarantee a certain minimum performance from their networks. To be able to meet these commitments, the network elements have to be able to ensure that the required amount of resources is made available when needed. A recent study has shown that 5% of users consume 60% of ablity to meet its SLA commitments to the rest of its subscribers. Operations have a strong incentive to manage the data usage of such heavy data uses (e.g., by throtting the thoughput rates available to such users).



Hanoring SLAs may also mean being able to identify data associated with key customers and giving it pretenential treatment in the network. There are strict guideless in the LTS quotiCasions about the handling of data with different levels of Graß. Gateways in the network hervis commonly implement these techniques to ensure that committed Qraß is delivered.

EFFICIENT MANAGEMENT OF NETWORK RESOURCES

DENERWORK RESIDURCES Another motivation for operators is to manage their CAPEX. Operators are waiking huge investments in building out heir networks to keep up with the growth in data consumption. Umranaged data usage oougled with the need to deliver or SLAA would result in operators having to deploy more equipment to hardle the load. A botter alternative is to manage the data usage. The LTE SLAPP specifications introduced the concept of maximum bit rates (MBR). This is a very catical alterizing for operators in order to prevent abuse of network resources by a fee "bad" subscribers.

REVENUE GENERATION With an explosion in overthe-top (OTI) applications on the Internet, providon site blocoming mere' damb' pope carring usine data back and forth. This is not an enviable situation for operators, considering the enormous investments in in instantic-ture engined to is top usite providing the data Bowing frough their points. They can do this by providing the same services as the OTI players, for instance worce-over TE (MUTR), but with significantly better and more periodicable quality. Operators may sent data associated with their on applications to be given preferential mannent as compared to equivalent OTT applications. Additionally, they can add value to the data already through through the referential (a players, by signing resemu-sharag deals with service providers in exchange for printing their data, or finally to topid additional back and the context of user data, similar to what Google does with Grand. -





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IP Video Services Accelerator

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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 providers as over-the-top (DTT) content, internet video and 3rd party applications continue to the team customer logalty. Gone are the days of just delivering traditional video offerings as cable service providers begin emb acting the opportunity to create new business models and deliver an exciting, personalized multi-screen experience to subscribers. But without the proper supporting service fulfilment ibundation, the accurate delivery of this experience is a significant challenge for cable service provides.



Simultaneous Linear & IP Video Provisioning & Support

Simulatineous a limiter of the or to be of the service sufficient subport of the product anexes provides and supports both. Inter and IP video retencis to deliver digitality. PPLV VCQ, DVR/VR, Internet Video, Officient and adquarts applications. This unique integrated CSS service managements obtain eliminates operational allos and provides seamless order management, provisioning and entitlement managementacross all technologies, services, and systems.

Simplify All-IP Video Migration

By supporting a hybrid linear and IP video network that provisions all video services, the IP Video Services Accelerator gives you the ability to simplify and implemental togical migrations at head annear solution of the solution when the solution of the solution of the solution of the solution when the solution of the solution of the solution of the solution of the solution when the solution of the solu your business is ready.









WiFi solutions

For more than 75 years, CHR has designed, built, managed and more tized ne buoks that matter—including one of the first file. LTEne buoks in the nation and July integrated WiFF ne buoks for the Department of Defense.

Whe ther your goal is to implement a WiFi ne twork that guarantees out standing coverage for broadband internet access or you're seeking ne wriverue streams by becoming a VoIP or Wireless Internet Service Provider, our experience enables the entire ecceptstem.

CHR's WiFi Solutions include fee bleend-to-endor a-la-carte optionsthatrange from concept, to construction, to customer management. Our certified engineers and best-of-breed partners stand ready to aid in every aspect of your WiFi project.

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