August 2025, Volume 21, Issue 10

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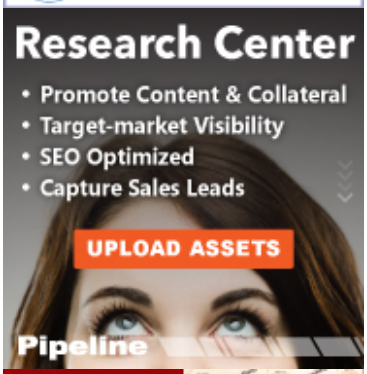

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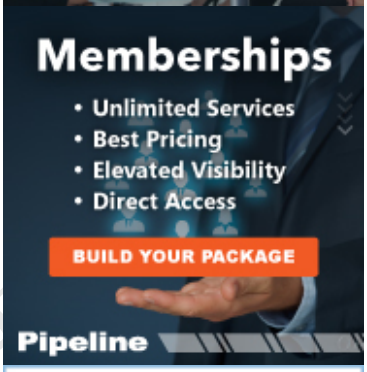

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End-to-End Solutions for Broadband Networks

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.

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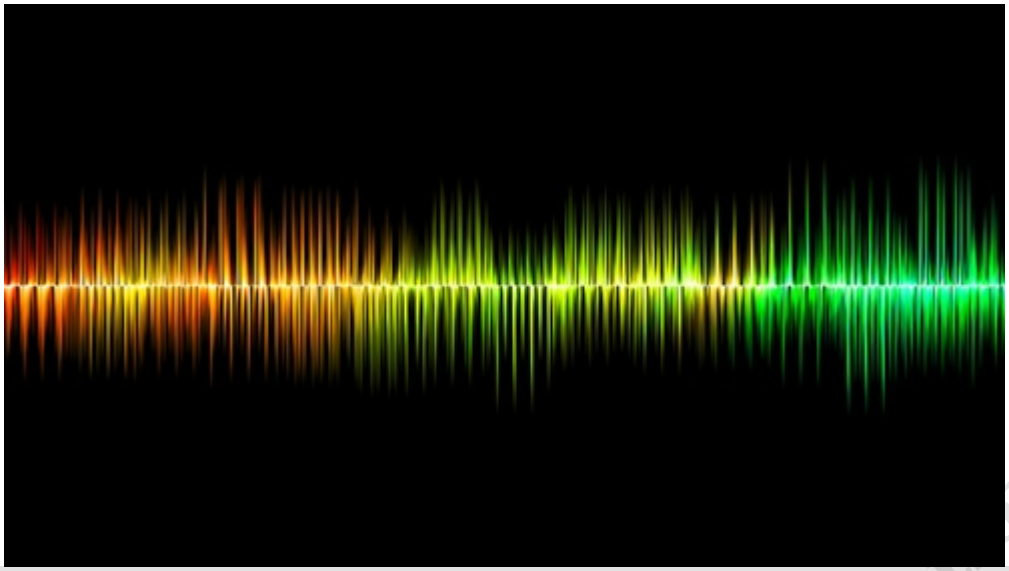
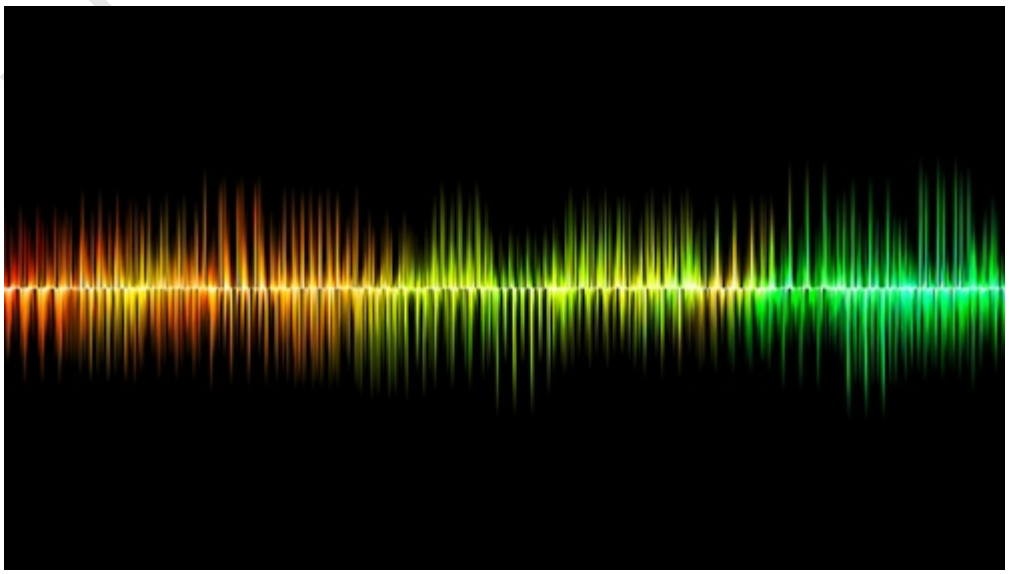


Predicting Colonial Pipeline: Mitigating Risk and Compliance

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.



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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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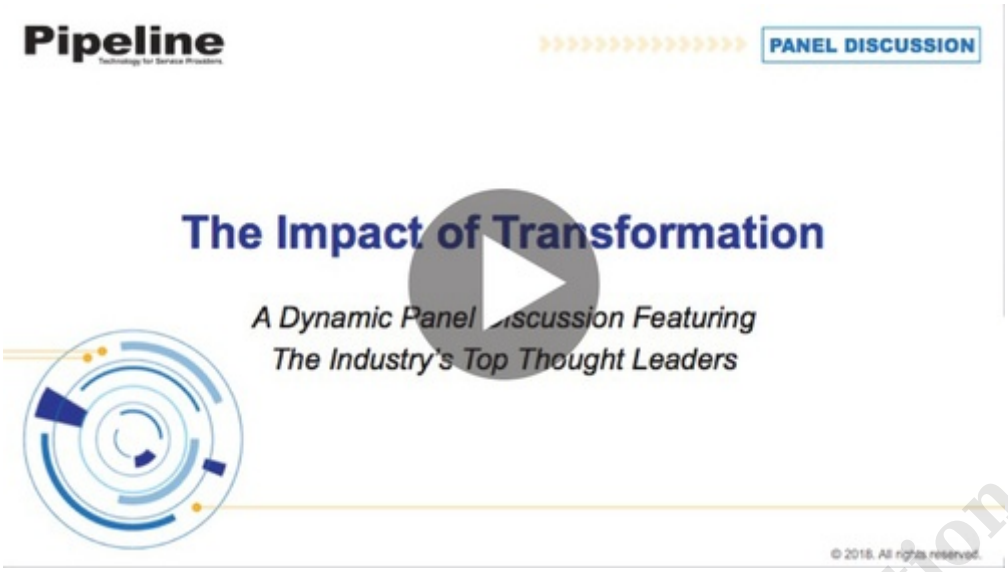

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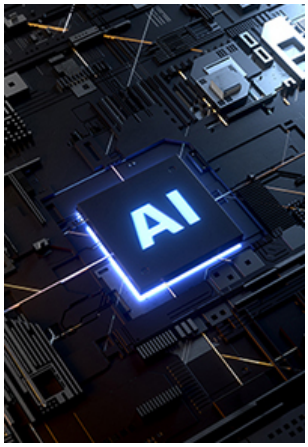

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PERSONALIZE & IMPROVE THE CUSTOMER EXPERIENCE

MATRIXX SUBSCRIBER POLICY & CHARGING SYSTEM

MATRIXX Subscriber Policy & Charging System (SPCS) integrates the use of subscriber policies and preferences with sophisticated online charging to drive emerging business models to success in the Telco 2.0 era. It takes policy management and online charging to the next level by providing operators with a single, flexible way to control and charge for network traffic, combining it with subscriber preferences that both enforce fair usage and empower the subscriber to have visibility and control over their spending. This comprehensive view enables service providers to create new real-time relationships with their subscribers that are more personalized and profitable than those of today's market.

MATRIXX subscriber policies interact with customer pricing and products to provide a better level of visibility, more control and real-time service interaction for subscribers. By enabling them to set their own preferences, controls, notifications and spending limits, service providers can offer more personalization, better visibility, and highly differentiated products and services.

Personalization Drives Differentiation and Loyalty

In the era of instant information, twitter, 24 hour news channels, and almost ubiquitous Internet connectivity, subscribers expect the same visibility and access to information about their spending on communications services as they do on their credit card or iTunes account. As devices and applications grow in availability and capability, it becomes more critical that subscribers understand and control how and when they use services and what factors impact how they are charged for services. By providing subscribers the ability to set preferences on service access, spending limits, balance sharing, quality of service, and other factors, service providers can drive a more meaningful subscriber relationship resulting in stronger customer loyalty.

In many markets today, mobile penetration is approaching saturation. In some markets, penetration is more than 100% as subscribers own multiple devices. In this highly competitive climate, the only way to attain a new customer is to take one from your competitor. While exclusive or bleeding edge devices traditionally drove service provider differentiation, current economic conditions have resulted in consumers placing higher value on family plans, bundles, pricing, self-care and spend management features. A host of retailers are also flooding the market with low end offerings. The result is that traditional 'one size fits all' service offerings do not provide the level of differentiation required to attain and maintain subscribers.

With MATRIXX, subscribers can choose to set spending controls, policies and preferences to personalize their offer and drive a more subscriber-oriented experience. They can set spending limits and notifications at the service level such as setting a higher level of spending for email than for Web browsing. Subscribers can limit access to specific services or limit usage to certain hours of the day. They can also set policies on how balances are shared among devices or family members.

Additionally, service providers can set policies that impact service usage or pricing to enforce fair usage, reward their best customers, or encourage subscribers to use high bandwidth services when network traffic volumes are low. Information about credit score, historical spending, or customer status can influence how services are priced and charged for.

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STRENGTHEN YOUR BRAND. STREAMLINE YOUR OPERATIONS

MATRIXX CONVERGENT CHARGING

As communications business models evolve and mature, marketing organizations are constantly creating new services, payment models are evolving, and devices are becoming increasingly sophisticated. Customer segments are becoming more defined and granular, and what once was either a prepaid or a postpaid relationship has grown into a multi-faceted array of payment options. These mix and match payment methods also provide options to charge physical goods to a mobile account or access personal funds as a customer would at a bank.

Devices and access methods are also multiplying making the picture yet more complex for service providers. Their subscribers have a choice of Smartphones, set top boxes, tablets, PCs, laptops, gaming consoles, and mp3 players to access services via cable, DSL, FTTH, 3G, Wi-Fi, Wi-Max and new LTE networks. However, competition is fierce and network access charges are becoming commoditized.

Communications service providers are challenged with rising above these complex operational and service delivery environments to focus on the customer. Regardless of device, access method or payment option, customers should be presented with compelling, integrated service bundles that are intuitive and customizable to fit their personal needs. Convergent charging applications play a key role in delivering a differentiated and consistent customer experience as they provide the central link between services, payment methods, and devices.

MATRIXX Convergent Charging provides a highly flexible, hyper-efficient application that runs on low cost, commoditized hardware and which easily integrates with existing billing systems. It helps the marketing department and the business implement initiatives to strengthen the brand and increase customer value while providing dramatic scale and driving cost out of operations.

Increase Customer Value

MATRIXX Convergent Charging enables service providers to better monetize their portfolio of services and content and increase customer lifetime value. It provides a flexible and configurable set of pricing, charging and balance management features so that service providers can quickly and cost-effectively implement a convergent charging layer without disrupting existing IT and network assets.

Functional Highlights

- Bundle products and services together regardless of access network
- Quickly deploy new pricing models, promotions or discounts
- Manage balances and payment relationships
- Develop and implement loyalty programs and preferred pricing
- Track and enforce usage quotas, allowances and credit limits
- Bundle services together to provide cross-product discounts
- Roll out the same offers across prepaid and postpaid subscribers
- Share balances across devices, such as sharing a data allowance across a laptop, tablet and Smartphone
- Create prepaid/postpaid hybrid offerings

MATRIXX Software
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TOP TEN PREDICTIONS FOR THE TELECOMMUNICATIONS INDUSTRY IN 2011

For B/OSS, Managing the Manager is #1, says Progress Software

Progress Software Corporation (NASDAQ: PRGS), a leading software provider that enables companies to be operationally responsive, predicts that telecommunications service providers will increasingly be able to detect technology problems that might affect customers, solving them before the customers even know they exist.

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

Progress Software's Telecommunications predictions for 2011:

1. **For B/OSS, managing the manager is key.** Traditional business and operational support systems (B/OSS) will require systems to manage the systems. Most service providers have invested so much in their B/OSS infrastructure assets that they cannot be easily replaced and need an adapted layer to respond to real-time business demands and reenergize the existing B/OSS infrastructure's value.

2. **You will predict problems before they come to light.** Telco service providers will be able to predict when there is a potential issue that will affect customers—and correct it before it happens. The pre-emptive correction of problems before the customer knows they exist will become a key factor in differentiating service providers and improving the customer's level of service.

3. **Loyalty program.** Mobile service providers facing mounting competitive forces will have to build stronger relationships with their customers. They will need to provide customers with unique, interactive experiences to build stronger loyalty by tapping into customer call patterns and locations, correlating with customer preferences and providing value-added services to customize each customer's experience in a unique way.

4. **Partly cloudy.** As communication service providers head for the cloud, they will struggle with data interoperability between cloud and non-cloud environments. Operators will need advanced data transformation and adaptive technologies to take full advantage of cloud-based applications.

5. **Mind the gap.** Operators will be increasingly trapped in the gap between customer expectations for flexibility and speed, and the limitations in existing B/OSS infrastructure. This will drive demand for new business user toolsets to overlay B/OSS, enabling service providers to respond and deploy new solutions faster.

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SOLUTION BRIEF

Mobile Video Policy Control

Benefits at a glance

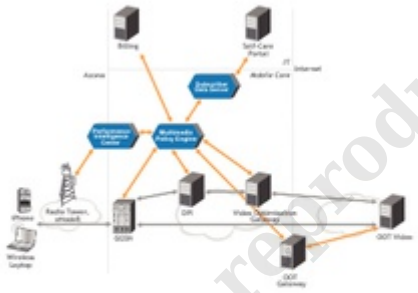
- Generate new revenue with mobile video services
- Create mobile video services tailored to specific customer segments
- Align revenue and network costs using dynamic policy controls

Business Requirement

There is no question that video is both popular and consumes more network resources than almost any other application. A look at current data points tells the story. YouTube has become the second largest search engine. Mobile video is predicted to grow 66 fold from 2009 to 2014 and consume 66 percent of all mobile bandwidth by 2014. Clearly, finding ways to mitigate the impact of mobile video on the network in a way that still meets consumers' demands is critical to the success of mobile operators.

Challenges

Previous network solutions for handling data services primarily centered on static service provisioning in which operators take a "one-size-fits-all" approach. However, with the advent of data-rich services like mobile video, that approach has a number of shortcomings. In fixed networks, geographical service demand can be accurately predicted and the network built out accordingly. However, mobile networks, by nature, enable movement, which makes it more difficult to predict geographical service demand and network build out. Moreover, operators are increasingly investigating and deploying tiered pricing plans, which offer end users a variety of service levels and options that go far beyond the "one-size-fits-all" static provisioning approach.



Mobile Video Architecture

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

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Whitepapers

TEG

A Best Practices Framework for the Telecom Ecosystem

It is proposed to develop a best practices framework for the telecom ecosystem to boost investment in innovation and increase vendor diversity. The design and implementation of this framework should involve telecom operators, both large and small vendors, investors, government agencies and other relevant players.

Disclaimer

The recommendations presented in this paper are intended to seed industry discussion with the aim of gaining wide acceptance across the industry. We recognize that not all the recommendations may be supported by all players participating in the discussions. Our intent is to identify the most important areas to achieve meaningful change, and to work towards consensus on implementing them within an effective best practices framework for the telecom ecosystem.

Background

Telcos need significant innovation to address their key challenges of: generating new revenue streams, reducing the energy consumption of networks, managing complexity (which is different from reducing complexity) and making networks more robust to vendor failures, cyber-attacks and environmental extremes (e.g., floods, high temperatures, hurricanes). Current telco innovation and procurement practices, rather than encouraging the innovation they need, are unfortunately deterring it. Our international consultation with telecom vendors and industry stakeholders[1,2] has identified key areas where telecom operators globally should improve their processes for engagement with the telecom ecosystem in order to encourage more investment in innovation more widely.

We organized a series of colloquiums with leading telecom industry veterans to consider the following questions:

- What does innovation mean in the context of the telecom industry?
- How can supply chain diversity be encouraged and supported?
- What are the barriers to innovation, and how can they be overcome?
- How can investment risk be reduced?

The discussions were held under Chatham House Rules to encourage candor and we followed this up with a series of published articles.[3,4,5] This paper summarizes the recommendations which emerged from these discussions and is derived from our "code of conduct" proposal published in November 2020.[6]

Importance of Startups

Our recommendations are predicated on the assumption that the telecom ecosystem benefits when startups are motivated to invest in R&D and offer innovative new products. Large companies typically begin as startups but tend to become less innovative and less responsive to their market as they grow, making them vulnerable to disruption by more innovative and nimble new players. This creates a cycle of destruction and renewal which drives advancement in every field of human endeavor.[7]

Final May 18, 2022 Page **1** of **5**

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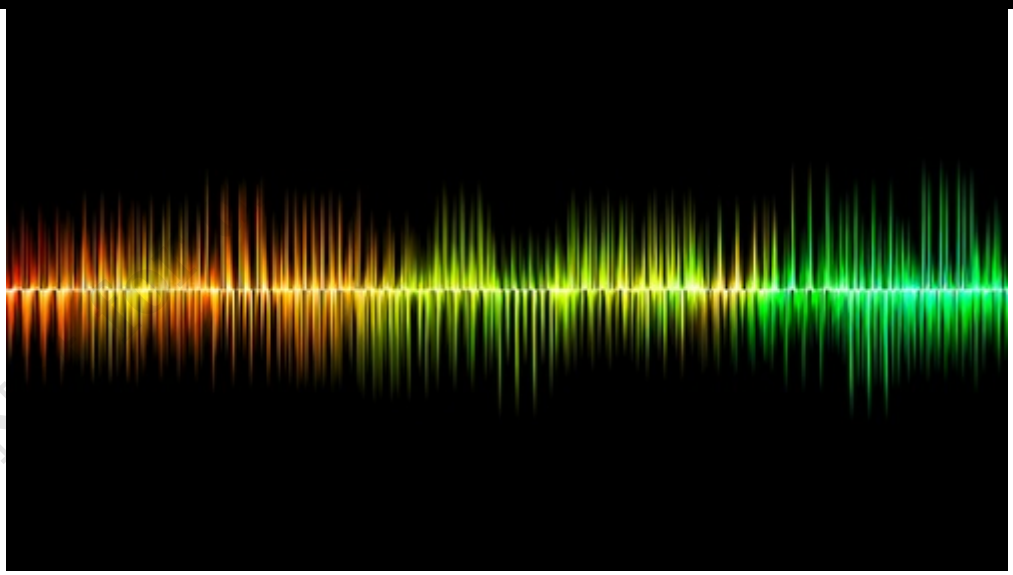

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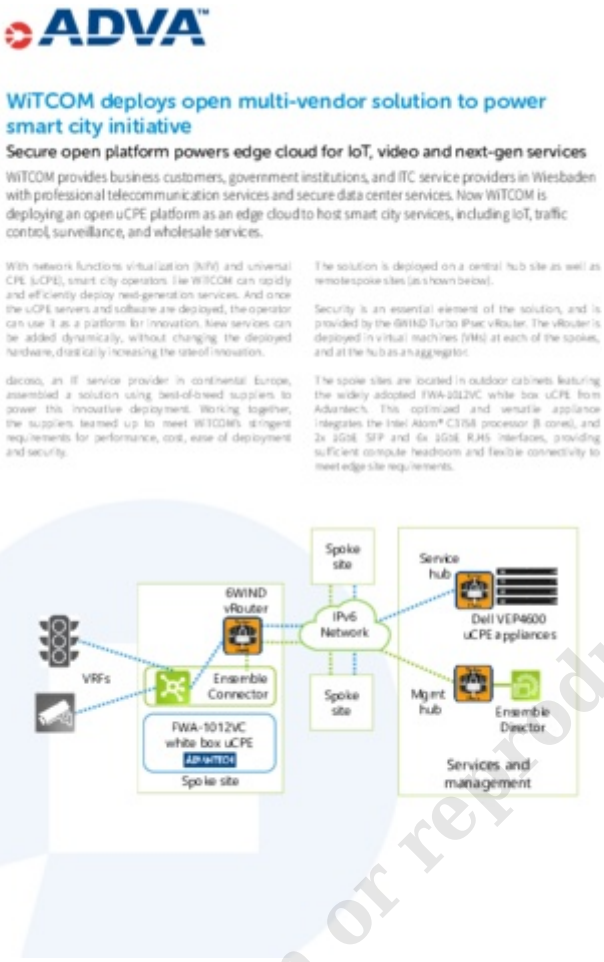

ADVA

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.

dacoso, an IT 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 6WIND 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 Advantech. This optimized and versatile appliance integrates the Intel Atom® C3758 processor (8 cores), and 2x 1GbE SFP and 6x 1GbE RJ45 interfaces, providing sufficient compute headroom and flexible connectivity to meet edge site requirements.

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Policy Control and Mobile Video:

OPTIONS FOR MANAGING GROWTH

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CHR provides a full suite of **Business Process Outsourcing (BPO)** services to enable Communication Service Providers (CSPs) to meet the escalating competition, reduce operating and capital costs, and address the increased complexities of converging technologies that make it challenging to run their business. CHR's **BPO** Services, on average, can reduce your operating costs ten percent (10%) to forty percent (40%). Your business could avoid hundreds of thousands, and in some cases millions of dollars of capital expenditures while improving your operational effectiveness at a fixed and predictable price.

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CSG Point of View: Making the Most of Policy Management

"It is now generally agreed ... that the market focus for policy control and its related technologies has shifted from basic traffic management to enabling the implementation of real-time discounting, upselling, cross-selling and a range of mobile broadband services as yet unimagined. Fundamental to the realization of this bright new and hopefully profitable future is the requirement for close integration between OLC (On-Line Charging) and the PCRF." Informa Telecoms & Media

Profitability as well as Control

The exponential growth of mobile data traffic has been well-documented. According to Cisco, mobile data traffic in 2010 was three times the size as that of the entire global Internet in 2000. As a result, Communications Service Providers (CSPs) have understandably been scrambling to control the amount of traffic on their networks before the networks get swamped and customers get more than disgruntled.

On its inception, many pundits lauded policy management as the solution to cure all network woes. CSPs could throttle back heavy users, avoid congestion and keep customers happy.

But this approach has limitations, since the heaviest users are potentially the heaviest spenders. Policy management practices restrict their usage without exploring other, more profitable mechanisms for traffic shaping. Mechanisms that can earn the CSP revenue as well as offering the CSP – and importantly the customer – control over their own destiny.

'Policy 2.0' has emerged as an improved model for CSPs – add some charging to policy management to enable operators to extract revenue from the high-end users, not just restrict their access/ bandwidth/ usage.

While this development goes some way towards delivering on the potential that policy management has to offer, it does not go far enough. True integration of policy management with sophisticated online charging provides the opportunity not only to manage bandwidth and even gain revenue, but to deliver truly innovative solutions to service providers, to offer compelling value to customers and a competitive advantage in the market.

Policy Management Develops

Initially, faced with the dramatic growth in data on their networks, CSPs turned to policy management to fix particular, urgent problems. They needed to protect their network – and quickly.

Subsequently, CSPs have taken a more holistic approach to policy, implementing more scalable solutions that address multiple issues across the business.

Today, there is increasing recognition that charging needs to be utilized alongside policy in order to grow revenue. When combined with policy, charging can be used, for example, to offer top-ups to customers who are about to exceed their download cap, providing the

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- Dynamic Product Catalog
- Powerful Business Analytics
- Market-Leading CRM

MODULES

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- Billing
- Product Catalog
- Case Management
- Order Capture & Management
- Financials
- Service Activation
- Dashboards
- Facilities Management
- Sales & Marketing
- Capital Credits

Omnia360™

- **Improve Monetization Opportunities** with a unified customer view and increased pipeline visibility
- **Simplify Business Systems** with a complete, pre-integrated back office solution
- **Elevate Customer Experience** with consistent customer interactions

A dynamic, pre-integrated billing and CRM solution that brings together your entire business ecosystem.

Omnia360 transcends traditional billing platforms with a complete "out-of-the-box," pre-integrated customer relationship management and billing solution. Available as a fully-hosted cloud-based solution or onsite license subscription, our next-generation solution empowers communications service providers (CSPs) with a client-centric model for service differentiation and rapid deployment of new services, especially within the Enterprise space.

Leveraging Microsoft Dynamics® CRM, Omnia360 best-of-breed software platform delivers a comprehensive, turn-key back-office solution for CSPs to monetize new untapped revenue opportunities.

Centralized Customer Management

Omnia360 provides a holistic view of your customers. Within a single screen, service providers can view all billing, accounts receivable, orders, and service details. Our solution helps drive operational efficiencies by empowering you to enforce business-specific rules, create custom fields, and even integrate third-party applications with simple point-and-click customization.

Dynamic Product Catalog

Omnia360 delivers a dynamic, centralized product catalog enabling the selling and fulfillment of next-generation products and services, such as cloud services, productivity solutions, unified communications, and Voice over IP products — all while enabling traditional voice, video, and data products. This unlimited product hierarchy capability helps optimize sales accuracy while reducing the time it takes to complete the entire concept-to-cash cycle.

Powerful Business Analytics

It is critical for management to be able to monitor business performance. Omnia360 maintains a single scorecard that covers sales, marketing, and customer service. This up-to-the-minute information provides inline charts with drill-down intelligence to visually navigate data, identify trends, and uncover new insights.

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Combine the familiar Microsoft® Office fluent user interface with powerful CRM software to maximize marketing effectiveness, win more sales, and enrich customer service interactions. Leveraging the power of Microsoft Dynamics® CRM, marketing and sales professionals are equipped with flexible segmentation tools, simplified campaign management capabilities, lead-to-cash visibility, real-time sales forecasts, and much, much more. Customer service specialists are empowered with tools that simplify case management, streamline escalations, improve knowledge sharing, and enable more effective account management, all while helping to contain service costs.

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cloud services

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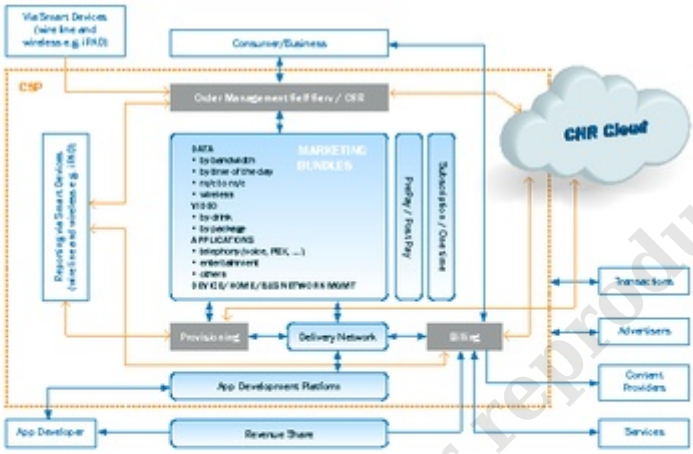
GENERATE NEW REVENUE

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 ecosystem which supports advertising, applications, transactions, services and content. This synergistic environment offers limitless opportunity for creating new revenue without the capital expense.



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