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- News Center
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- Seamless Connectivity Services
- Distributed AI Networks
- Unified Endpoint Security
- NIS2 & Supply Chains
- WANs, Data Centers & Edge AI
- Intent-Based Networking for OT
- D2C Liquid Cooling & Power
- Enterprise Network Provisioning
- Designing Self-healing Networks
- The Resurgence of Fiber Optics
- Letter from the Editor
- IT & Telecom Technology News
- Article Index



DELIVERING
SEAMLESS
CONNECTIVITY
WITH:
CableLabs

THE
**AI FACTORY
BACKBONE**

WITH:
NOKIA

NAVIGATING
**NIS2 SUPPLY
CHAINS**

INTEGRATING
**INTENT-BASED
NETWORKS**

TRANSPARENT
**ENTERPRISE
SERVICES**

THE
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DESIGNING
**SELF-HEALING
NETWORKS**

+

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A Dynamic Panel Discussion
Featuring Industry Leaders

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NVIDIA Kicks Off the Next Generation of AI

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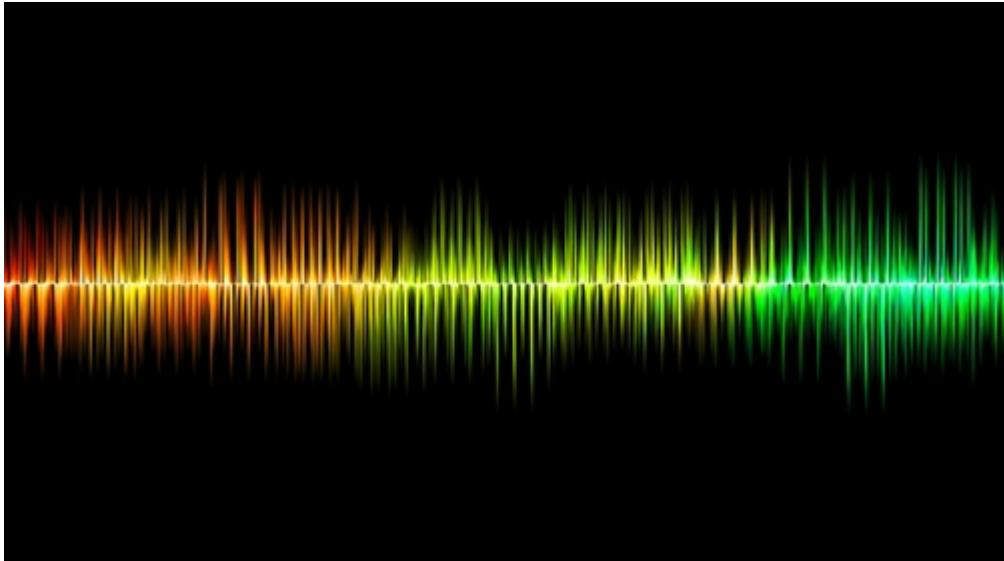


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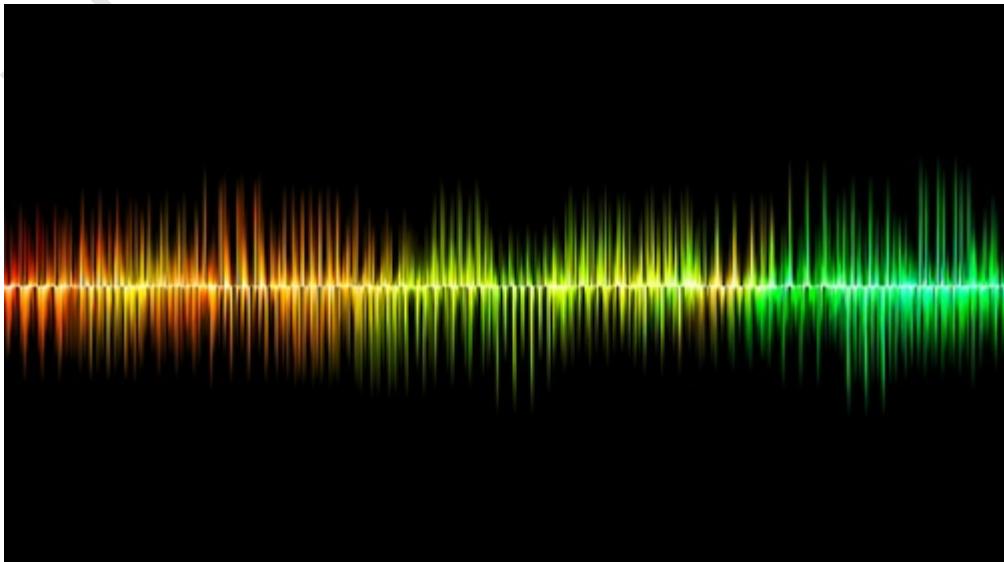
End-to-End Solutions for Broadband Networks

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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**“DIGITAL TRANSFORMATION
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The Impact of Transformation



*A Dynamic Panel Discussion Featuring
The Industry's Top Thought Leaders*

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The Network Transformation Imperative



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Agile Architecture for Digital Innovation



**A Dynamic Panel Discussion Featuring
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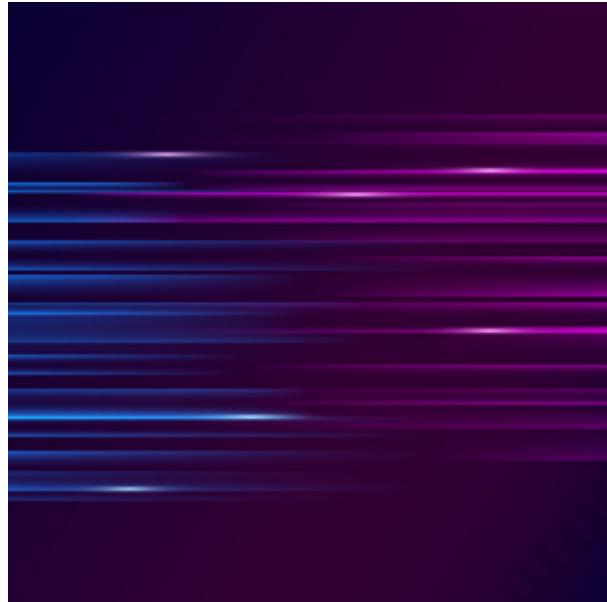
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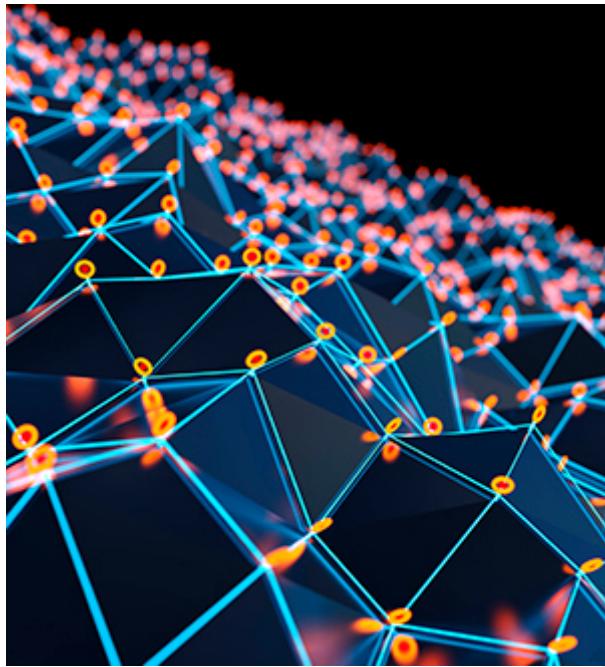
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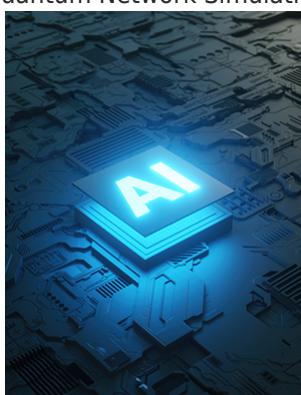
5G NTN Satellite Networks



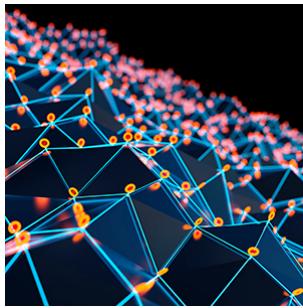
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- Credit limit management
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Annual Research Center Subscription (includes tracking, event listing, publications, and lead generation services for whitepapers, case studies, videos, webinars, and more)	✓	✓	✓	✓												
Pipeline Innovation Awards Participation (includes 10 entries per year in our annual innovation awards program (3 categories) and other annual awards ceremony)	✓	✓	✓	✓												
Annual Member Directory Listing (includes company logo, profile, website, event listing, and media inquiries & more)	✓	✓	✓	✓												
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Monthly Newsletter Advertising Placements (advertising placements in Pipeline's monthly newsletter. Includes 10 entries in our monthly newsletter ad placement program)	up to 8 per year	up to 12 per year	up to 12 per year	up to 12 per year												
Monthly Newsletter Advertising Premiums (advertising placements in Pipeline's monthly newsletter. Includes 10 entries in our monthly newsletter ad placement program)	up to 26 per year	up to 52 per year	up to 52 per year	up to 52 per year												
Social Media Support Package (includes 10 hours of consulting, strategy sessions for social media, web site, website, mobile app, case studies, and other consulting, if desired)	✓	✓	✓	✓												
Marketing, Content and Writing Services Package (includes a half hour of consulting, strategy sessions for social media, web site, website, mobile app, case studies, and other consulting, if desired)	✓	✓	✓	✓												
Digital Asset Syndication Program (includes an ongoing monthly service to syndicate your content to a select list of news sites. Includes tracking, and lead generation for all other sites. After 10 entries, it costs per additional website as it is for your website)	up to 3 per year	up to 2 per year	up to 2 per year	up to 2 per year												
Pipeline Report Sponsorship (includes a speaking slot and panel position in the area of a conference or the annual Pipeline Innovation Award for a half hour talk. Includes 10 entries in our annual Pipeline Innovation Award for a half hour talk)	up to 2 per year	up to 2 per year	up to 2 per year	up to 2 per year												
Research Center Membership (includes tracking, event listing, publications, and lead generation services for whitepapers, case studies, videos, webinars, and more)	up to 1 per year	up to 1 per year	up to 1 per year	up to 1 per year												
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\$1,000 per year	\$4,000 per year	\$14,000 per year	Custom package													
Marketing Placement 10 entries	Newsletter Placement 10 entries	Newsletter Placement 10 entries	Newsletter Placement 10 entries													
2015	2015	2015	2015													



The cover of a whitepaper titled 'Performance Management Framework for Mobile Workforce Management and Field Service'. The title is in bold black text at the top. Below it is a subtitle: 'Using Metrics and Analysis for Continuous Improvement'. At the bottom of the cover, there is a small line of text: 'Balancing Customer Satisfaction & Efficiency • Enabling Continuous Improvement & Differentiation'. The background of the cover features a large, stylized blue 'V' shape on the left and a blue grid pattern on the right.

Mediation for the Changing Business Environment

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

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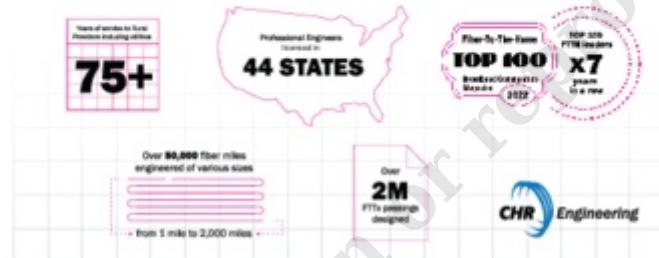
Rural America needs access to broadband. But closing the digital divide can be complicated—and with so many service providers facing increased competition, mounting costs, supply chain issues and eroding revenues, you need more than a quick fix.

CHR Solutions has the technology and the expertise to help you make informed decisions that enable you to get the job done efficiently, on budget and on time. From feasibility studies to network design to construction, we partner with you every step of the way to optimize your operation and increase your speed to market.

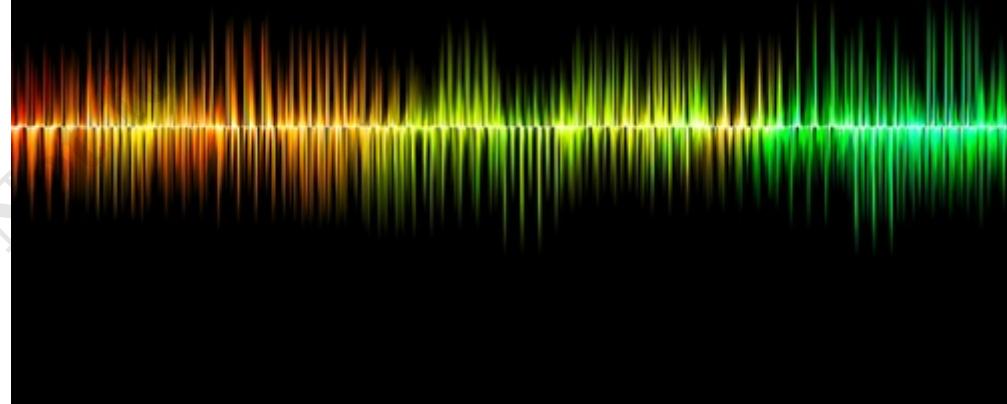
“CHR helped to train and guide us through the fiber-to-the-home design, engineering and permitting processes. They have become my go to liaison with city, county and state permitting authorities. If you want to work with people that are willing to help and get your foot in the door in your state right-of-ways, I highly recommend CHR (they even do wireless & tower engineering too!).

- Jason Pond, CEO, Grizzly Broadband, LLC

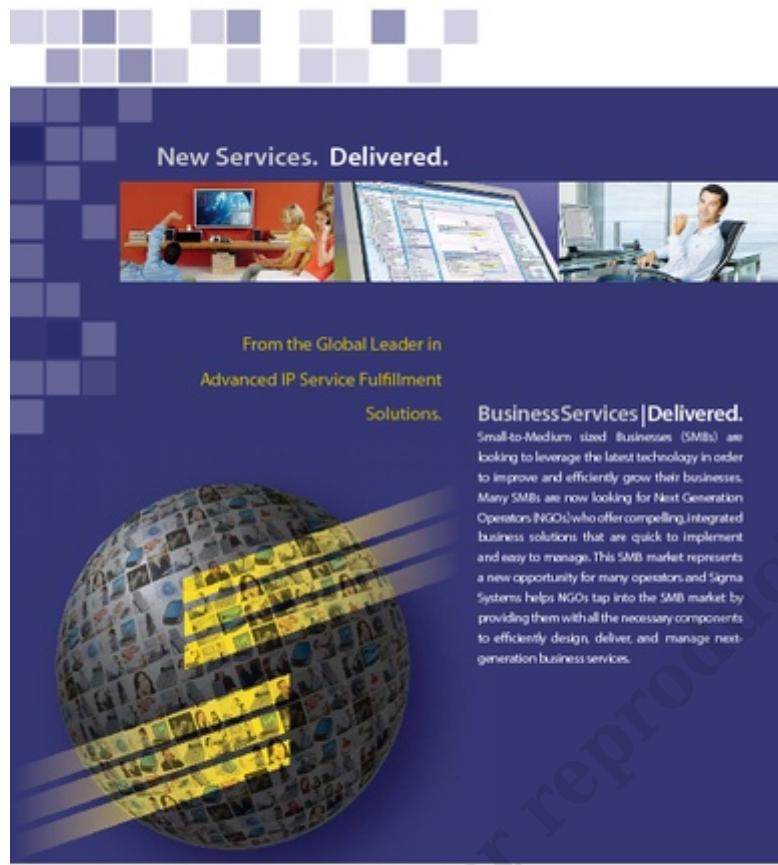
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Small-to-Medium sized Businesses (SMBs) are looking to leverage the latest technology in order to improve and efficiently grow their businesses. Many SMBs are now looking for Next Generation Operators (NGOs) who offer compelling integrated business solutions that are quick to implement and easy to manage. This SMB market represents a new opportunity for many operators and Sigma Systems helps NGOs tap into the SMB market by providing them with all the necessary components to efficiently design, deliver, and manage next-generation business services.



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product bulletin

Omnia360™ (powered by Microsoft Dynamics® CRM)

Next Generation Billing and CRM

Omnia360 transcends traditional billing and relationship management with a complete 'out-of-the-box', pre-integrated customer relationship management and billing solution. Available as a fully-hosted cloud-based solution, managed service or on-site license subscription, this 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 the largely 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. The solution helps drive operational efficiency by empowering you to create custom fields, enforce business-specific rules, 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 lead-to-cash cycle.

Powerful Business Analytics

It is critical for management to be able to monitor business performance. With Omnia360, management 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.

Market Leading CRM

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.

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

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Omnia360™ Product Bulletin



PLATFORM

- Centralized Customer Management
- Dynamic Product Catalog
- Powerful Business Analytics
- Market-Leading CRM

MODULES

- Account Management
- Billing
- Product Catalog
- Case Management
- Order Capture & Management
- Financials
- Service Activation
- Dashboard
- 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 on-site 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.

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 for a Safe, Secure and Connected World



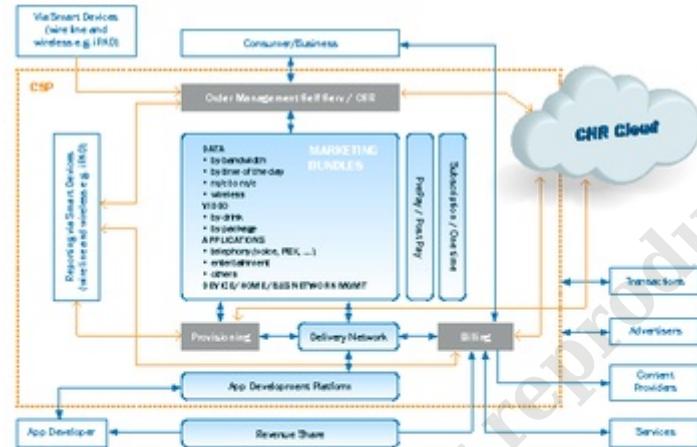
cloud services

Leveraging the power of Cloud Services is crucial to the future of your company. With converging technologies and crippling competitive pressures, CHR's Cloud offers answers in unexpected times. Building your business becomes only a question of how high and how far you want the Cloud to carry you.

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.





Order-to-Cash Billing Services

Cycle30 provides a completely hosted platform for scalable and reliable converged billing. It includes convergent charging, rating and balance management for existing and emerging services across a variety of markets.

Unlike a traditional billing system you need to deploy, maintain and host yourself, the Cycle30 order-to-cash platform is ready today, so you can get to market quickly.

Order-to-Cash Services
Today's operator needs to focus on acquiring and retaining customers and delivering service. Your operations rely on accurate, timely revenue assurance.

From the moment of customer contact and order, the Cycle30 platform supports your operation by managing and accounting for the revenue associated with your products and services, all the way through invoicing, reconciliation and collections.

At the start of your interaction with customers, Cycle30 provides connections for core sales activities, such as channel sales and retail commission tracking.

CUSTOMER MANAGEMENT

Manage your customer information via integrated systems in the Cycle30 platform. The Cycle30 Customer Management suite enables the major account management functions below:

- Account Management
- Order Entry
- Credit Chasing
- Bulk Ordering
- Credit Management
- Sanctionability

SERVICE RULFILLMENT

Cycle30 provides pre-built workflows and integration to SME the order upon completion:

- Order Management
- Activation
- Inventory management
- Workforce management

BILLING AND REVENUE MANAGEMENT

The core of the Cycle30 platform assures your revenue stream is completely covered, from customer creditworthiness to modeling and collections.

- Product catalog
- Enterprise Mediation
- Billing & Pricing
- Rent/Reid Billing
- LMR
- Billing
- Collections
- Invoicing
- Reconciliations
- Clearinghouse Reconciliations
- Financial Reporting
- Service Assurance

SERVICE ASSURANCE

Cycle30 service assurance helps you maintain your customers' services, diagnose problems and ultimately drive revenue increases:

- Trouble Management
- Troubleshooting Tools
- Usage Data Collection



BUSINESS INTELLIGENCE

Unlock the business intelligence inside your customer and billing data, and better understand your customer habits, trends, purchasing behavior and needs, as well as where to focus your efforts.

- Data Quality
- Real-Time Data Warehouse
- Ad-Hoc Queries
- Financial, Operational, Marketing Subscriptions and Invoicing Reports

INTEGRATIONS

Cycle30 provides a large set of pre-set workflows and integrations to SME orders upon completion. In addition, specific integrations can be authored beyond the integrations below:

- Business-to-Business
- Financial Reads
- Content Providers
- Point-of-Sale
- APIs
- Other Third Parties

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Dynamic Product Management for Communication Service
Providers (CSPs) – The Time is Now

A Stratecast Whitepaper



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How business processes contribute to performance

A survey of Operations Managers in
airlines, corporate banks and
telecommunications companies

January 2011



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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 OSS/BSS 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 farm 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," enabling 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).

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