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**IN THIS ISSUE**

- 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
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DELIVERING  
SEAMLESS  
CONNECTIVITY  
WITH:  
**CableLabs**

THE  
**AI FACTORY  
BACKBONE**

WITH:  
**NOKIA**

NAVIGATING  
**NIS2 SUPPLY  
CHAINS**

INTEGRATING  
**INTENT-BASED  
NETWORKS**

TRANSPARENT  
**ENTERPRISE  
SERVICES**

THE  
**FIBER  
RESURGENCE**



DESIGNING  
**SELF-HEALING  
NETWORKS**



**UNIFIED  
NETWORK  
SECURITY**

**AI &  
HYBRID  
NETWORKS**

**LIQUID  
COOLING &  
STRANDED  
POWER**

# NETWORK TRANSFORMATION

NEWSWIRE

## LATEST UPDATES

### ADVANCED ANALYTICS

#### WEBINAR:

A Dynamic Panel Discussion  
Featuring Industry Leaders

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 Pipeline

### The Impact of Transformation

A Dynamic Panel Discussion  
Featuring Industry Leaders

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 Pipeline

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 Pipeline



Be Recognized as a  
Top Industry Innovator

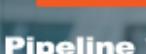


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A Dynamic Panel Discussion  
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- On-site Videos
- Animation and Whiteboard
- User Interface Demonstrations
- Editorial Interviews

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## Pipeline WEBINAR

Leverage *Pipeline* to  
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### Pipeline Video Services

- On-site Videos
- Animation and Whiteboard
- User Interface Demonstrations
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## TRENDING NEWS

**Hippocratic AI Acquires Grove AI**

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**Salesforce Announces General Availability of Slackbot**

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**Camunda Releases Agentic AI Report**

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**AST SpaceMobile Shares BlueBird 7 Orbital Launch Date**

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**Verizon to Acquire Frontier**

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**AOK Bayern Deploys NiCE CXone**

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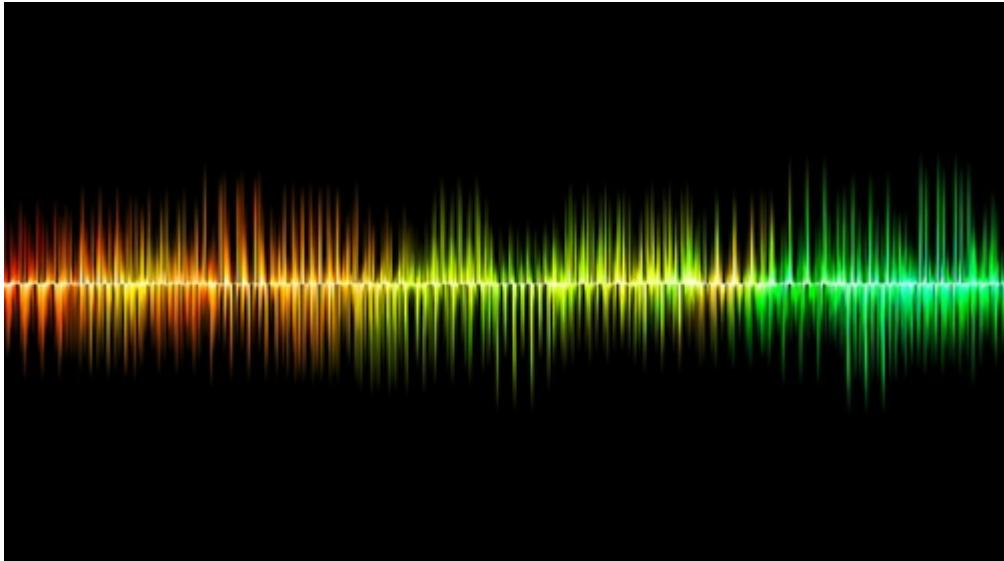
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## Featured Content



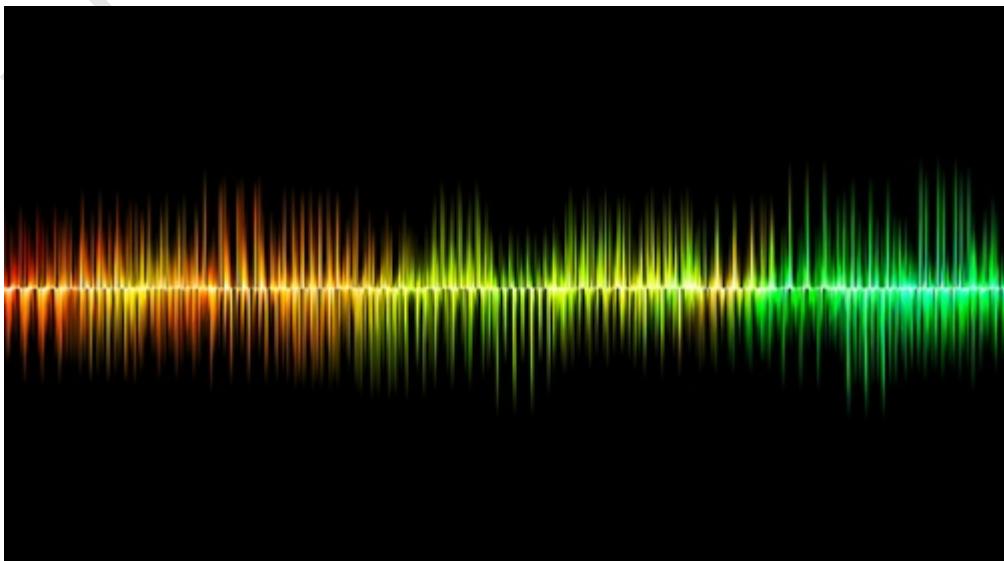
# End-to-End Solutions for Broadband Networks

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



## Predicting Colonial Pipeline: Mitigating Risk and Compliance

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





## Podcast: The Evolution to 6G

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

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## Latest Webinars

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Previously live

IT Ukraine Association

JEVERA software solutions

23 NOV 2023  
4PM EET  
online

Discover how to mitigate risks of 2024

**“DIGITAL TRANSFORMATION  
FOR TELCOS: A 101 GUIDELINE”**

## The Impact of Transformation

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



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## The Network Transformation Imperative

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



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## Agile Architecture for Digital Innovation

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



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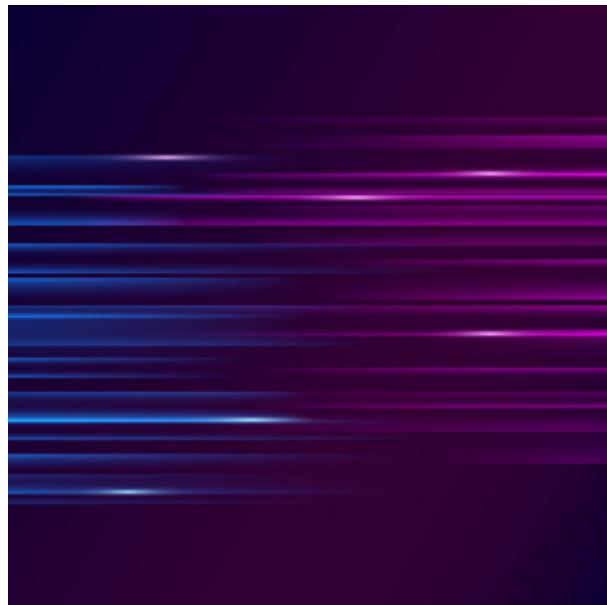
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## Latest Articles

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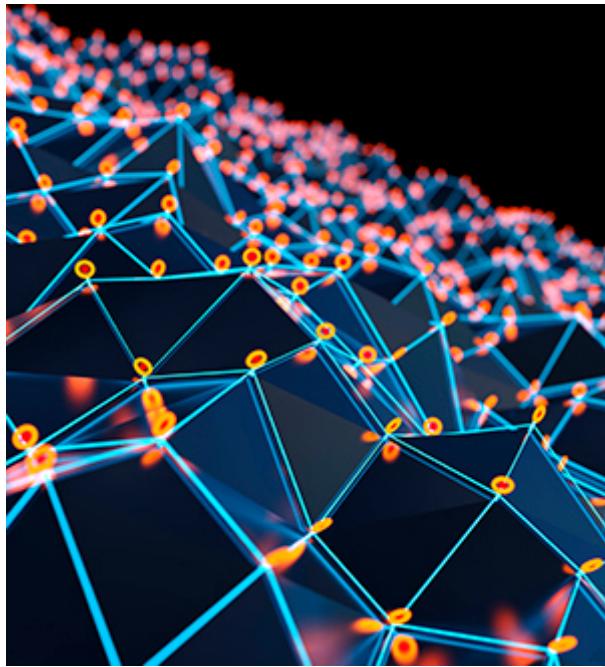
### Seamless Connectivity Services

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### Distributed AI Networks

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## Unified Endpoint Security

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## NIS2 & Supply Chains

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### TRENDING ARTICLES

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5G NTN Satellite Networks



Edge AI & Local LLMs



Letter from Editor



IT & Telecom Technology News



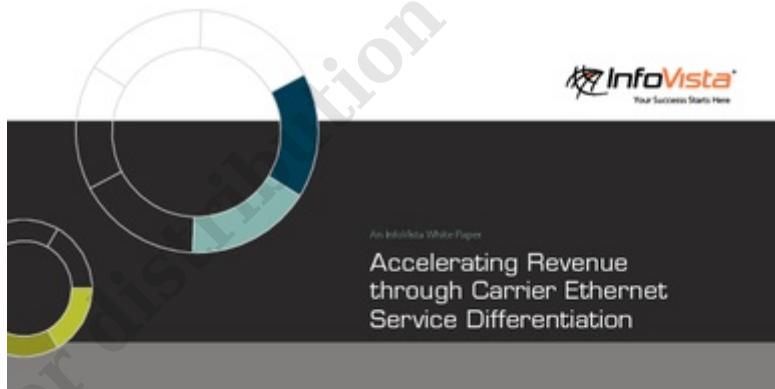
Enterprise Network Provisioning

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## Other Featured Content

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## CHRIS WINSLOW



### CUSTOMER SUCCESS STORY: SINGTEL OPTUS

#### Expert Billing For the Top-End of Town

SingTel Optus (Optus) needed to differentiate itself from its competitors and create a valuable service to attract and retain high-value customers. The company wanted to optimise its service to large corporate and government entities and therefore needed a billing and transaction management system to support that market segment.

#### STRATEGY

As the largest competitor to Australia's incumbent, Optus has taken a very strategic approach to winning high value customers.

Optus introduced superior customer-focused service to the market, along with premium product and service bundles. The corporate and government market in particular was requesting a better method to manage their communications portfolios.

To support this business decision, Optus selected Singleview as the strategic billing and transaction management system for their corporate and government customers. They chose Singleview because of its flexibility and functionality, which supports the concept of a "market of one".

#### RESULTS

Optus has reduced overall cost of ownership and improved operational efficiencies with lower bill processing cycle times and seamless internal operations, not to mention reduced spend on accessing data and increased time on servicing its corporate and government customers.

#### OPTUS – AN OVERVIEW

Optus, now owned by telecommunications giant SingTel, commenced operation in 1992 and is one of the largest telecommunications service providers in Australia. It has more than six million customers today and provides a broad range of communications services including mobile, national and long distance services, local telephony, international telephony, business network services, internet and satellite services and subscription television.

#### ORGANIZATIONAL STRUCTURES

**REFLECTED WITH EASE**  
Singleview's hierarchies provide powerful aggregation features, which allow for the management of complex corporate and government accounts. The ability of Singleview to initiate these organizational structures is achieved via its superior and multifaceted hierarchies. Each account is treated individually, allowing billing, reporting and invoicing to be tailored to meet the client's individual business model. These hierarchies can sometimes be 8-9 levels deep with the thousands of nodes.

#### BILLS AND REPORTS AS A SELLING TOOL

Optus is able to use the options provided by Singleview as a key differentiator for high value corporate clients. With Singleview, Optus customers have total control when they want it and how they want it.

There are two key benefits for Optus customers:

- One single bill for all products and service.
- Advanced multiple reporting functionality.

**Rethinking Mobile Data Rate  
Plans: What Consumers Think**

Business Perspectives from Tekelec



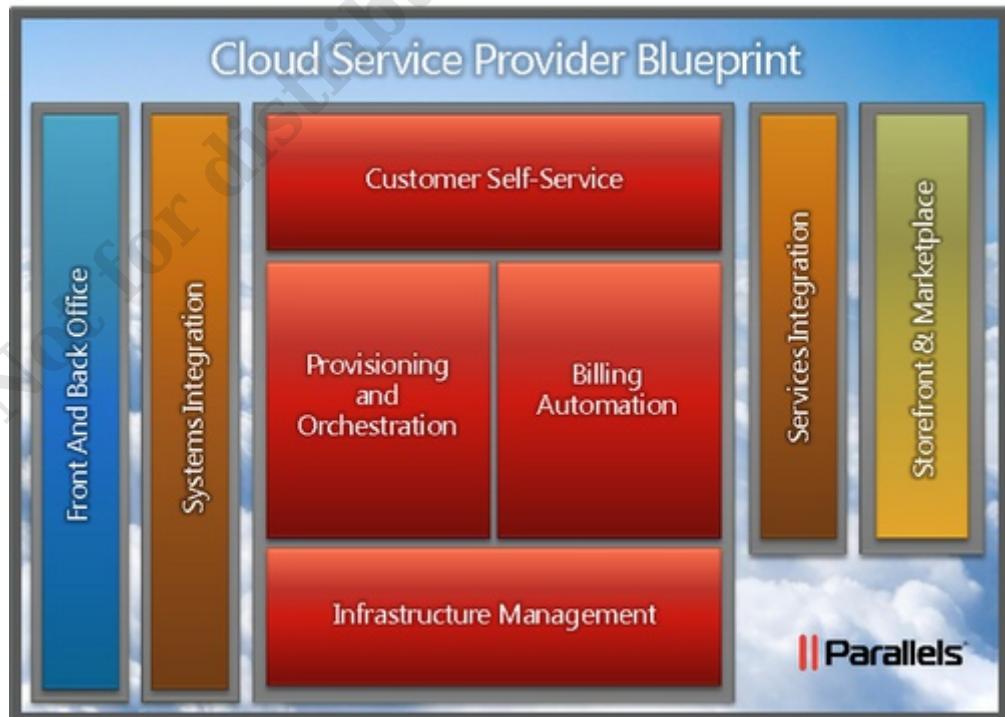
[www.tekelec.com](http://www.tekelec.com)

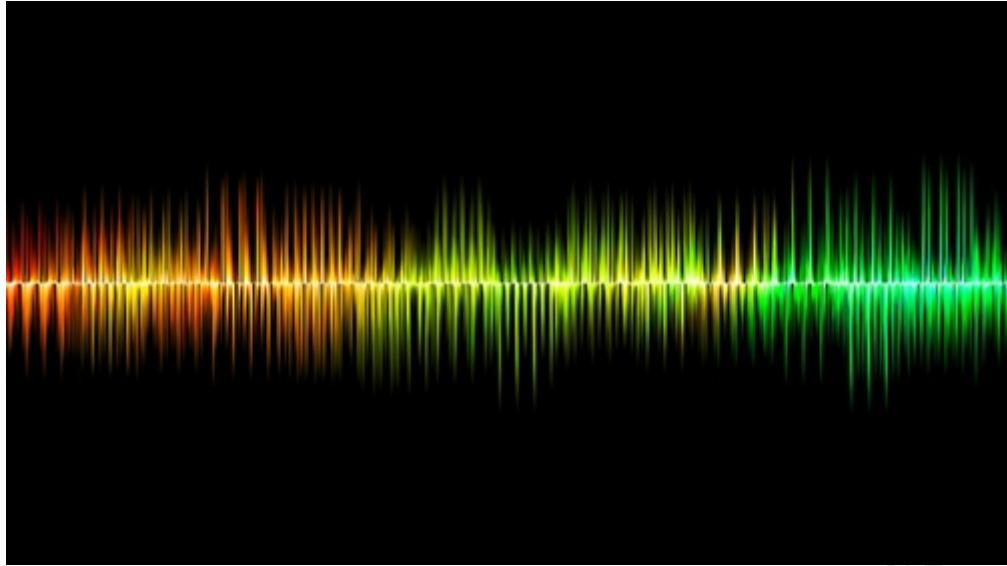


FEBRUARY 24, 2010

**CLOSING THE COMPLEXITY GAP**  
A CASE STUDY IN NETWORK INTEGRITY

**Nakina**  
Systems  
Network Integrity





## MARKETING PLANNER WORKSHEET



Use the Pipeline Marketing Planner to create an integrated program to achieve your annual marketing objectives and corporate strategy. Select the brand building, lead generation, thought leadership, and content creation services that will propel your company to new success. Plan the timing of these activities to coordinate with the issues of Pipeline that align to the topics most important to your company.

UPCOMING ISSUES													
STRATEGIC MARKETING OBJECTIVE		Issue 1	Issue 2	Issue 3	Issue 4	Issue 5	Issue 6	Issue 7	Issue 8	Issue 9	Issue 10	Issue 11	
BRAND BUILDING:		Brand Transformation	Positioning	Competitor Analysis	Competitor Development	Digital Content Marketing	Content Marketing	Content Syndication	SEO & SEM	Search Engine Optimization	Big Data & Advanced Analytics	Customer Evaluation & Optimization	Market & Research
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		Run-of-Site Advertising	Entitled, Interactive Article Advertising	Weekly Newsletter Advertising	Monthly Newsletter Advertising	Spotlight Article with Cover Page Logo	Executive Spotlight/Video Interview	Cover Page/Call-to-action	Cover Page Logos	Cover Page Executive Photo	TradeShow Newsletter Advertising	ICT Executive Summit Events	TradeShow and Event Partnerships
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		Entitled, Interactive Article Advertising	Weekly Newsletter Advertising	Monthly Newsletter Advertising	Spotlight Article with Cover Page Logo	Executive Spotlight/Video Interview	Cover Page/Call-to-action	Cover Page Logos	Cover Page Executive Photo	TradeShow Newsletter Advertising	ICT Executive Summit Events	TradeShow and Event Partnerships	Webinar Branding Sponsorship
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		Entitled, Interactive Article Advertising	Weekly Newsletter Advertising	Monthly Newsletter Advertising	Spotlight Article with Cover Page Logo	Executive Spotlight/Video Interview	Cover Page/Call-to-action	Cover Page Logos	Cover Page Executive Photo	TradeShow Newsletter Advertising	ICT Executive Summit Events	TradeShow and Event Partnerships	Innovation Awards Sponsorship
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		Entitled, Interactive Article Advertising	Weekly Newsletter Advertising	Monthly Newsletter Advertising	Spotlight Article with Cover Page Logo	Executive Spotlight/Video Interview	Cover Page/Call-to-action	Cover Page Logos	Cover Page Executive Photo	TradeShow Newsletter Advertising	ICT Executive Summit Events	TradeShow and Event Partnerships	Marketing, Writing, and Design Services
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THOUGHT LEADERSHIP:		Company, Executive, or Technology Spotlight Articles	Sponsored Thought Leadership Articles	Commissioned Articles	Executive Spotlight/Video Interview	Whitepaper	Whitepaper Writing and Distribution	Resource Center Asset Hosting	Marketplace Directory Listing	Industry Reports and Surveys	ICT Executive Summit Events	Innovation Awards	Webinar Participation
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		Company, Executive, or Technology Spotlight Articles	Sponsored Thought Leadership Articles	Commissioned Articles	Executive Spotlight/Video Interview	Whitepaper	Whitepaper Writing and Distribution	Resource Center Asset Hosting	Marketplace Directory Listing	Industry Reports and Surveys	ICT Executive Summit Events	Innovation Awards	Webinar Participation
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		Company, Executive, or Technology Spotlight Articles	Sponsored Thought Leadership Articles	Commissioned Articles	Executive Spotlight/Video Interview	Whitepaper	Whitepaper Writing and Distribution	Resource Center Asset Hosting	Marketplace Directory Listing	Industry Reports and Surveys	ICT Executive Summit Events	Innovation Awards	Webinar Participation
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LEAD GENERATION:		User Referrals with Lead Reports	Direct/Connect Advertising	Resource Center Asset Hosting	Content Distribution and Syndication	Spotted Article	Sponsored Article	Digital or Physical Article Reports	ICT Executive Summit	Webinars with Extended Lead Generation	Marketplace Directory Listing		
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		User Referrals with Lead Reports	Direct/Connect Advertising	Resource Center Asset Hosting	Content Distribution and Syndication	Spotted Article	Sponsored Article	Digital or Physical Article Reports	ICT Executive Summit	Webinars with Extended Lead Generation	Marketplace Directory Listing		
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		User Referrals with Lead Reports	Direct/Connect Advertising	Resource Center Asset Hosting	Content Distribution and Syndication	Spotted Article	Sponsored Article	Digital or Physical Article Reports	ICT Executive Summit	Webinars with Extended Lead Generation	Marketplace Directory Listing		
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## Brochures

## IP Video Services Accelerator

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

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



### Simultaneous Linear & IP Video Provisioning & Support

The IP Video Services Accelerator provides a service fulfillment solution that simultaneously provisions and supports both linear and IP video networks to deliver digital TV, PPV, VOD, OnDemand, Internet Video, OTT content, and 3rd party applications. This unique integrated OSS service management solution eliminates operational silos and provides seamless order management, provisioning, and entitlement management across 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 implement logical migration strategy from legacy to all-IP video. You can manage this migration at the pace of your business and benefit from the flexibility to migrate in stages, by managed service area, network segmentation, and even customer profile. With the IP Video Services Accelerator you can rapidly launch enhanced entertainment services and migrate linear video subscribers to a common OSS back-office solution when your business is ready.



## Brochures

## FSP 3000 OLS

### A versatile and truly open line system

5G and cloud-based applications offer enterprises, carriers and service providers enormous potential for growth. However, this continuous and rapid change also creates the need for more network capacity and flexibility. It's essential to build today's networks on an open, flexible and scalable optical layer ready to accommodate evolving demand and innovation. Featuring a fully modular and open design, our FSP 3000 open line system (OLS) provides complete versatility and best performance in metro, core and data center interconnect (DCI) applications.

#### Truly open

Open disaggregated optical networking is one of the industry's hottest trends. By decoupling terminal functions from the line system, this approach offers complete flexibility to adopt the latest technology when and where needed. Our FSP 3000 OLS is truly open, allowing total freedom to evolve and optimize each network layer separately. Network operators can leverage and expand their infrastructure at any time with the technology of their choice. What's more, with open and standard interfaces, our FSP 3000 OLS easily integrates into software-controlled networks.

#### Build your own OLS

Our FSP 3000 OLS empowers network operators to create the solution that meets their exact requirements. With a modular architecture, multiple amplification and multiplexing options, and different chassis sizes, our FSP 3000 OLS enables customized solutions. Operators can simply mix and match the optimum filters and amplifiers and pack them into the best-fitting shell. This makes our FSP 3000 OLS ideal for any type of network infrastructure.

#### Future-proof investment

Coherent modulation schemes are becoming increasingly diverse to maximize transport network capacity and minimize the cost-per-bit of transport. Flexible terminals with variable modulation formats and baud rates enable higher capacity-to-bandwidth ratio. The ultimate network performance relies also on the system capabilities, and that's why open line systems have increasingly become important strategic assets. With a combination of high-performance features, our FSP 3000 OLS transports any coherent modulation format as well as all varying signal baud rates with best performance. The high-resolution Tengrid and modular architecture of our ROADM guarantee a future-proof OLS that can scale and accommodate any modulation format and baud rate. What's more, our FSP 3000 OLS provides a new level of flexibility with configurations able to support direct detect technologies.

#### Your benefits

- **Open hardware**  
No technology or vendor lock-in, successfully tested in multi-vendor environments
- **Open programmable interfaces**  
Easy integration into software-defined networks with open, programmable APIs
- **For any type of network infrastructure**  
Modular design with multi-gig interfaces and filter options to meet your exact requirements
- **Purpose-built components**  
Amplifiers and filter options engineered for metro, core and DCI specific demands, and optimum transport of latest innovation, e.g., 400ZR and high baud rates
- **Visualization and control**  
Comprehensive monitoring and diagnostic tools, spectrum visualization and fiber surveillance
- **Ecodesign**  
High-density design with low power consumption
- **Flexible footprint**  
Chassis sizes from 1RU to 12RU, ETSI / data center ready, AC/DC power options



## Brochures

## DATA SERVICES      OVER 25 YEARS, 150,000 MILES OF DATA

SAVE money on data services  
GUARANTEE best practices  
ENSURE data accuracy  
AVOID government regulatory obstacles

Enghouse Data Services (formerly Moore Resource Systems) is a specialized team of GIS experts who make it possible for organizations to create and maintain geo-spatial enabled data for their next generation enterprise IT applications. The services that Enghouse provides can involve large data entry tasks to help populate unique data models or specific data updates based on field changes to a company's assets.

Our Enghouse Data Services team specializes in providing seamless project management support for an organization's own team. Data Services works with an organization's staff to assist in the tracking and completion of tasks on a daily basis to meet specific and prioritized needs.

### DATA VALIDATION & QA

The Enghouse Data Services team offers specialized tools that enable validation of source data before conversion to the target. These specialized tools can highlight problem areas that need to be corrected (e.g. data integrity rules) that might be broken by migrating to the target system.



Task report post QC validation



### DATA TRANSFORMATION

In a complex data cleaning and migration effort, data very often needs to be transformed between one or more formats. The Enghouse Data Services team accurately transforms the most challenging data, whether spatial or non-spatial.



GIS data aligned to imagery



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## Whitepapers

## DIGITAL **TRANSFORMATION** FOR TELCOS:

101 guideline

November 2023

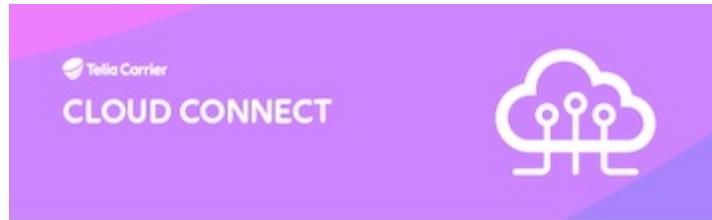
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## Going Global with M2M: What You Must Know to Control Costs

To launch a successful global M2M deployment, service providers and enterprise customers should first develop a plan that takes into account diverse cultures, languages, regulations, technologies and pricing. This Aeris White Paper outlines how differing regions and individual countries can create challenges in certification, support, and cost control and recommends actions to avoid these pitfalls.



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## 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 onramp 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 optimised for highly scalable, burstable workloads.

### 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.

**DID YOU KNOW?**  
You can order your Cloud Connect service in less than 1 minute, using our online portal MyCarrier!





## Company Fact Sheet

### About Cycle30

Cycle30 provides hosted order-to-cash billing services for telecom, cable and utility operators in North America. Cycle30 is a subsidiary of GCI, Alaska's largest telecommunications and cable provider (NASDAQ: GNCMA).

Over 10 years, the Cycle30 organization helped transform GCI from a multi-product carrier of disparate services to a truly converged operator of bundled telecom services, consolidating nine billing systems, and increasing operational efficiency and competitive agility. The Cycle30 platform also enabled GCI to improve product strategy and successfully merge consolidate multiple providers under a common billing/OSS system.

Proven over years of real-world operator experience with GCI, the Cycle30 organization now operates as a separate company, offering its converged billing platform as a hosted service to small-and-medium-size converged operators everywhere.

### Cycle30 Services

Around its core billing engine, Cycle30 has integrated leading commercial software for ordering, provisioning and business support. This makes the Cycle30 hosted platform the only one of its kind in the world, with all the ordering, provisioning, billing and back-office revenue systems a converged provider needs for a complete order-to-cash system.

### Management

Jim Dunlap – President  
Ariel Baird – Business Operations  
Andrew Dunn – Application Architecture  
Wendy Gonzalez – Products + Services  
Jeth Harbinson – Global Sales  
John Hegarty – Service Delivery  
Isaac Szymanczyk – Communications + Marketing

### Operations

Cycle30 manages all operations from its headquarters in Seattle. The primary data center is located in Aurora, Colorado, with recovery and on-demand data centers in Scottsdale, Arizona and Philadelphia, Pennsylvania.

Cycle30 | 710 2nd Avenue, Suite 1200 | Seattle, WA 98104 | [Cycle30.com](http://Cycle30.com) | 1-877-428-5465  
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03/09/10

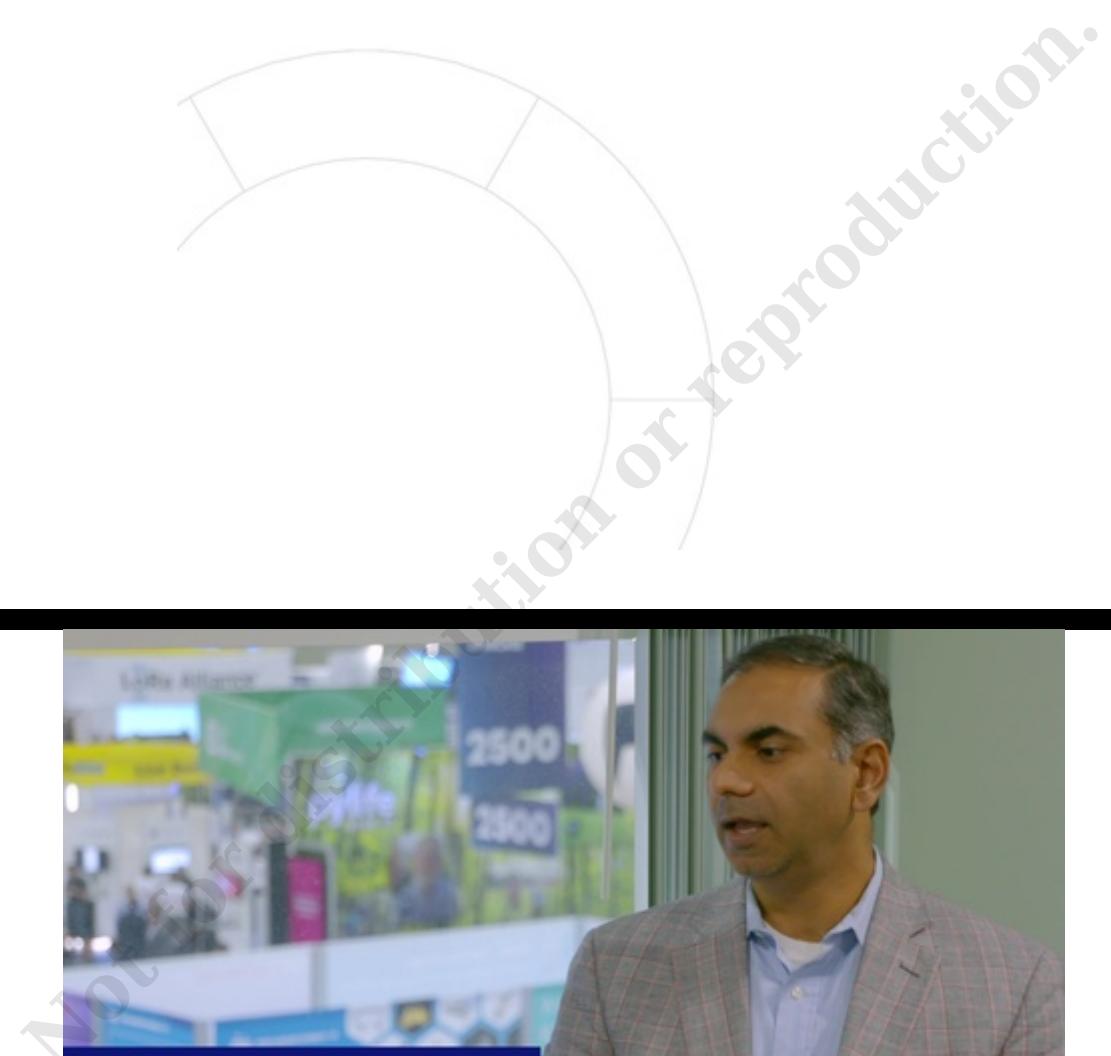
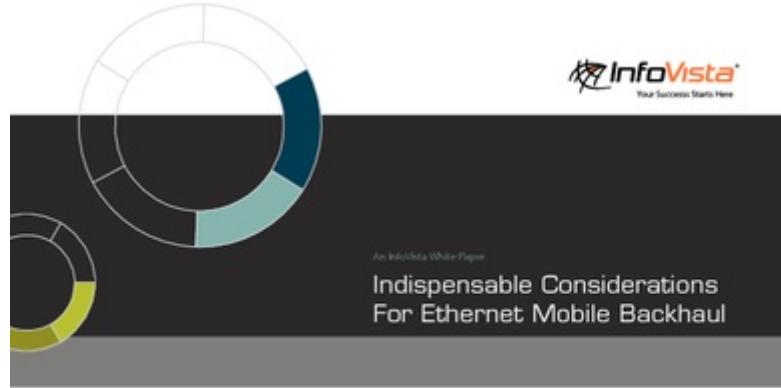


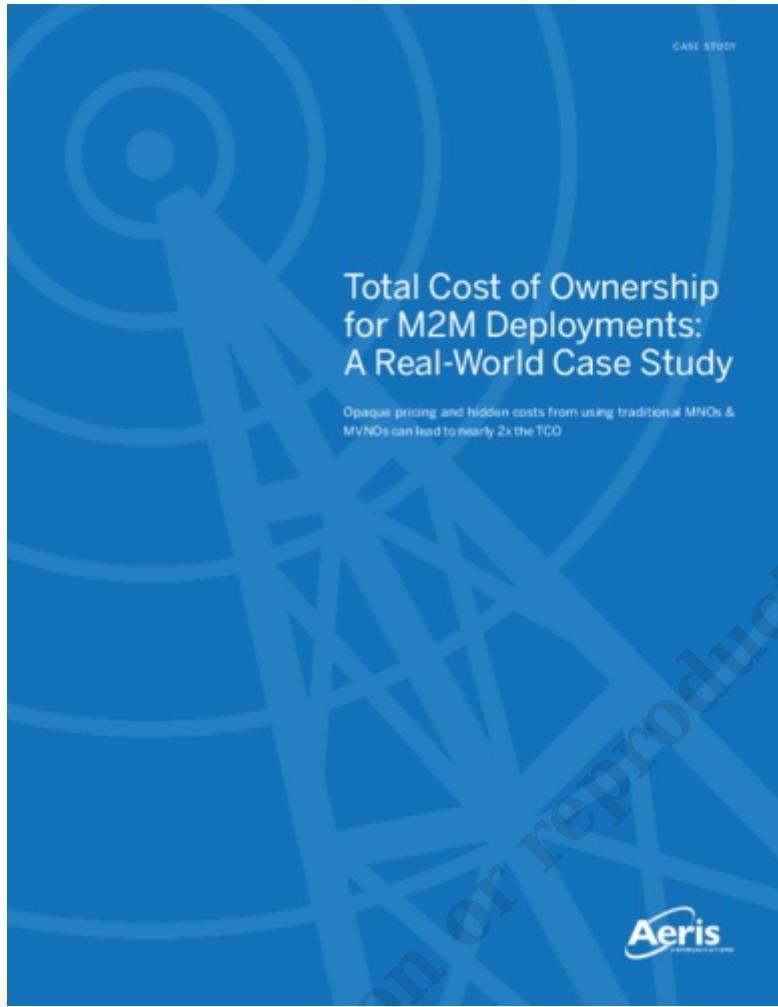
## Know Your Customers, Keep Your Customers: Five Key Benefits of Using Automated Surveys to Gauge Customer Satisfaction

CSG International | September 2011

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**White Paper**

**Managing Complex Multi-Enterprise  
Selling & Ordering Process Critical for  
Next-Gen Order Management Solutions**

Prepared by

Ari Banerjee  
Senior Analyst, *Heavy Reading*



[www.heavycgreading.com](http://www.heavycgreading.com)

On behalf of

**Sterling Commerce**  
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