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FRONTIER PREVENTING NETWORK

MOBILE-FIRST **OMNICHANNEL CX**

STEAMING CONTENT TO THE EDGE

SCALING **NETWORKS AND SERVICES**





SIMPLIFYING

COMPLEXITY

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Deutsche Telekom to Manage EU Communications Network

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Juniper Networks and IBM Collaboration to Enhance Mobile User Experiences

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Vodafone Qatar Enhance 5G Services Roll-Out with VMware Solutions

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Mobily Forms New Partnerships Across a Wide Range of Technology Fields

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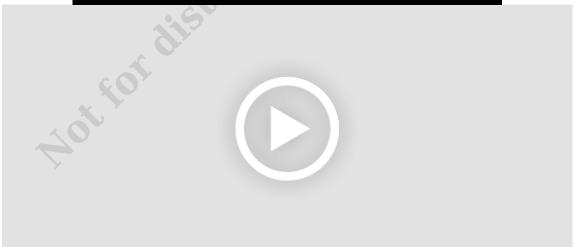
AT&T and ServiceNow Help CSPs Manage 5G/Fiber Network Inventory

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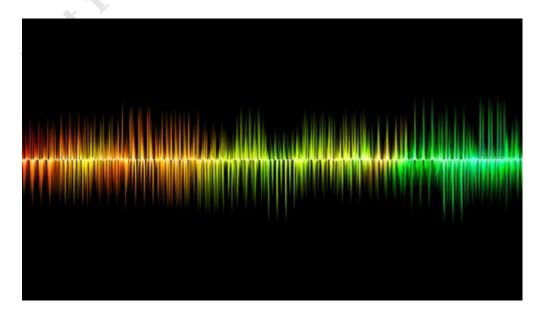
End-to-End Solutions for Broadband Networks

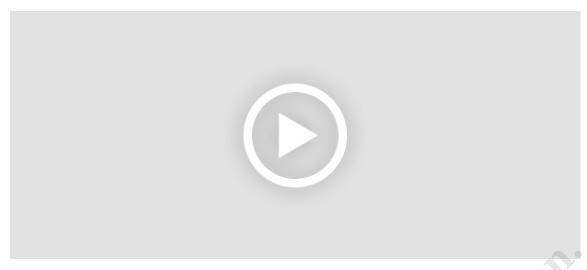
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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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The Network Transformation Imperative

A Dynamic Panel Ascussion Featuring The Industry's Top Thought Leaders



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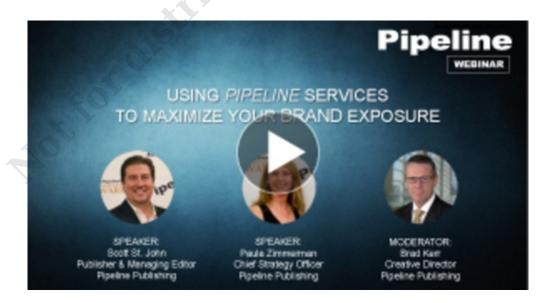
ANEL DISCUSSION

Agile Architecture or Digital Innovation

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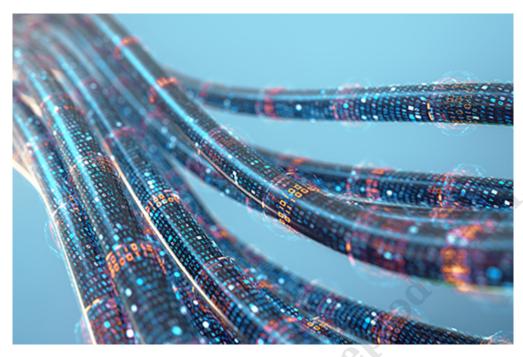


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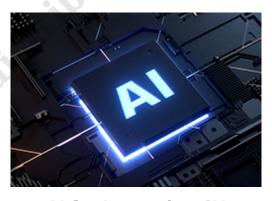
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Other Featured Content

Sigma Systems and NDS

Orchestrating New and Unified Entertainment Experiences

.....

Upgrading traditional offerings and deploying new hybrid: Piplatforms are an increasing focus as service providers look to evolve to offer a truly personalized video entertainment experience to subscribers – anytime, anywhere and on any device. Sigma Systems and NDS have developed an integration partnership to help service providers achieve this goal by provisioning and delivering advanced video and entertainment services that attract subscribers and generate

One Managed View of Video Access Entitlements
Critical to the success of leveraging the NDS solution portfolio for advanced TV/video services is the ability to seamlessly enable customers to access and view premium content. Signa Systems provides the service or the stration for the necessary authorizations, entitlements and provisioning of NDS systems for subscribers through a single OSS solution – managing video continual access rights, entitlements for premium content, VOO, DVR PvR and also provisioning IP set-tops and residential gate-ray devices.

TV Anywhere Authorized to Enable Multiple Devices

Subscribers are increasingly demanding anytime anywhere access to their premium content on multiple devices from their TV, personal computer, and personal tablets such as the Appler "Pad". Sigma Systems provides comprehensive subscriber entitlements management, which is key in seamlessly delivering the multi-device, multi-room, TV anywhere entertainment experience to subscribers. Senice provides benefit from service fulfilment that extends beyond subscribers. service plans and profiles with a completely integrated view and management of users, devices, and cloud-application

Effectively Migrate Subscribers from Standard to Premium Entertainment

Delivering new entertainment experiences to subscribers diseasi's have to involve an immediate and costly video network evolution. Sigma Systems' empowers service providers to leverage existing video networks in order to move beyond linear for services such as digital TV, PPV, VCO, and DVR/PVR through support for next-speneration PTV PV video platforms, like VICS, on a ringle integrated OSS service management platform. This co-existent service fulfillment environment manages the provisioning and activation of all enhanced entertainment services, helping service providers to launch new premium video services and bundled packages that drive new revenue and reduce customer chum.





DATA DRIVEN. RESULTS ORIENTED. YOUR BROADBAND SUCCESS.

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

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.

Aoi, for distrib

CHR helped to train and guide us through the fiber-to-the-home design, engineering and permitting processes. They have become my go to lisison 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

Our Experience, Your Advantage.



White Paper

Orchestrating the Evolution to Cable IP Video





Design, Deliver and Manage Triple-Play Services

GOL SILSULIDA SOL SILSULIDA



PTP Test Applications

Hammadour Dicko, Product Specialist, Transport & Datacons Business Uni

4 CVLTE deployments and increased bandwidth requirements in Carrier Ethernet services are the driving force behind the new baddhail retwork technology. Synchrotroston is required for orbital and wireless network operations because base stations must be synchronized in order to hand off calls between base stations, minimize dropped calls and ensure proper billing. Since precision time protocol (PTP) provides both phase and frequency, it is quickly becoming the synchronization technology of choice for packet networks.

WHAT IS IEEE 1588V2/PTP3

WHAT IS IEEE 1589/2/PFP?

Pp provides high dock accuracy in a packet reterior by continuously exchanging packets with appropriate timestamps. In this protocol, a highly precise clock source, reteried to at the grandmaster clock, generates timestamp announcements. It also responds to immentance requests from boundary clocks, thus exercising that the boundary clocks and the alaren clocks are precisely symbronized with the grandmaster clocks. By religing on the holdware capability, the precision of the integrated clocks and the continuous enchange of smeatamps between PTPP-makeled devices, the frequency and phase accuracy can be maintained within a sub-microsecond range. This ensuring enchronization throughout the reduction of ange.

The objective of PTP deployment is simple: by exchanging timestamps, the stave clock can determine its offset from the grandmaster clock and thus adjust itself. This provides frequency



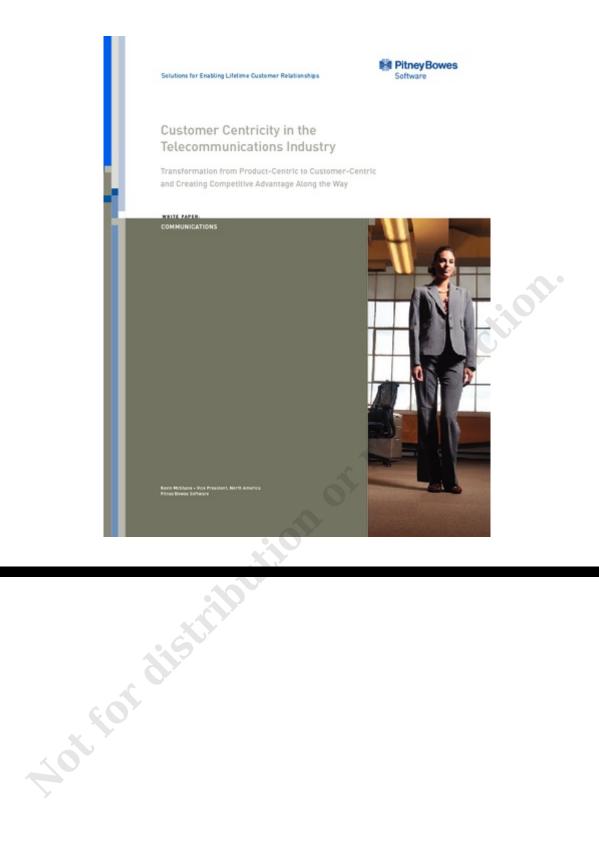
Financia I. PTP andersold

PTP USE CASES

PIP is a packet-based schrodogy. As the synchronization packets used by PIP as forwarded froughout the noteroid between the grandmaster and hosts, they are subject to delay fatimcy), delay used to predict the packet packet packet packet packet that to specification these, synchronization packets will all experience congestion as well as nouting and forwarding issues (e.g., out-of-sequence packets and novel flegal). The host dock if hiddover crimal must be stable enough to maintain synchronization in the event that synchronization packets experience these network events.

In addition to testing packet metrics to make sure they meet the service level agreement (SLA), in some cases, it may also be critical to validate the frequency measurements of the sync signal. A lew use cases are detailed herein. Table 1 summarizes the different synchronization testing applications.







TRIBOLD 3.0™

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The communications industry's most advanced Enterprise Product Management software solution

TIME TO TAKE CONTROL

These are challenging times for the telecoms and media sectors. Fierce competition is lowering margins. Converging technologies are making product differentiation problematic. Cost pressures are mounting. Customers are treating products as disposable commodities while brand loyalty is fast becoming a thing of the past.

Facing these difficulties, Communication Service Providers (CSPs) are discovering that delivering innovative, profitable products is an increasing demanding task, but one that has become paramount to their ability to effectively compete and deliver in this fast evolving industry.

Enterprise Product Management is about taking control over these challenges and providing the key to how CSPs go to market and with what products and services.



action.



MDS 2010 White Paper Series

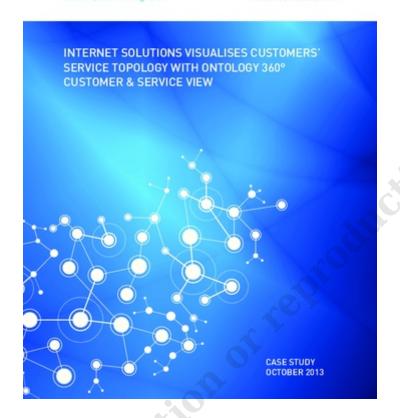


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Whitepapers

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 on the residence of the process of the p
- How to transform the (access) network towards a distributed cloud platform capable to reshape traffich periodic to better seem outcomes 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
- . Why is it essential to implement control via policies in the NPV/SDN scenario
- How these RECENCE common NPV and who should DES work in real Error?

Network function Virtualization (VIV) appears to be a very promising, yet very disruptive, technology, All its simpless, NIV is about decoupling software from handware and enabling the implementation to run on a farm of commodity handware in other words; it means placing network functions (IV) 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 series, where a network is no longer simply an access retwork to calls centers. On the continey, the network can become a cloud senting as a platform for outsomer applications, and it can dynamically entailed its architecture to meet customer needs. This resolution is possible thanks to combining MV and obteave series or entworking 50 IN) technologies, which means that networks can adopt by being reprogrammed. Moreover, network nodes can also become part of distributed cats centers that not only can host network functions, but also host applications. From the perspective of customers, filts means that applications can be moved 'closer to the customer,' entailing lower latency and higher speed, thus leading 19 better outsomer 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 inserier of Things (i-1), where applications can have their own virtual networks programmed.

From the cost savings point of view, the liberation from dedicated (expendive) hardware in favor of commodity (divagi) hardware promises to reduce CAPEI (apptal expenditure). Also, the lotes of Papurely software-based network reconfiguration should reduce CAPEI (operational expenditure). This may not be that obvious if one of the goalt 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 soving's point of view, the liber dison, by an dedicated (expense) less plans in flavor of coefficies (expense) in two of coefficies of the coefficies of the coefficies of the coefficies of the penditure. Also, the view of the coefficies of the penditure of the coefficies of the penditure of the coefficies of the penditure of the coefficies of the coeffici

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Weathering the Wireless Tsunami How MNOs Can Reach High Ground in Today's Communications Market

By ConceptWave Software Inc.

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NetDesigner Network Rollout, Resource and Asset Management

VISUALIZE your network TRACK network rollout **DESIGN** in hours not weeks MAINTAIN accurate data

AUTOMATE network provisioning INTEGRATE with the enterprise MINIMIZE costly errors

NetDesigner streamlines the complex process of within hours instead of weeks. Design parameters planning, implementing, operating, and optimizing can be customized by changing business rules to

next generation networks. Components of NetDesigner can be deployed on a standalone basis or integrated to enable end-to-end automation.

NetDesigner is an Evi GIS-based geospatial network design and management solution for complex. multi-domain networks. NetDesigner optimizes. resources, enhances workflow, improves customer service, and maximizes operational efficiency, allowing for unprecedented cost savings.



Certralized repository and single workspace

NetDesigner offers a comolidated workspace and a single, accurate data repository to enable planning. design, construction, and operations for a next generation network.

Automoted design

Design automation within NetDesignerenables engineers to develop a baseline network design

meet unique requirements.

Fowerful business intelligence and planning

NetDesigner allows users to plan 'what-if' scenarios, simulating what it would mean to bring network resources to under-served communities and targeted businesses. Users can integrate with visual, schematic map elements, and third-party data (e.g. ARRA, Connected Nations, demographics, census data, wire-center information, FCC data, flood plain barriers, environmentally semitive areas, etc.) to get a comprehensive and visual overview of a proposed or as-built network. The Bill of Materials functionality allows users to quickly acquire project cores and/or material costs of any design and generate equipment reports.

Madula: Revible, standards-based solution

NetDesigner is modular and can be deployed as a standalone solution or integrated with other applications to manage fibes wireless copper coars and hybrid networks, structures, and other assets. Using standard out-of-the-box APIs, NetDesigner may be integrated with systems such as OSS, BSS, ERP. Facilities Management, and many others to automate end-to-end service provisioning. customer relationship management, and network operations.



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DIGITAL BUSINESS PLATFORM

Digital transformation, which is the key for higher agility, efficiency, cost reduction and improved customer experience, is inevitable for CSPs to survive in the new digital economy. However, large-scale digital transformation projects are expensive and risky and may take years to complete. Meanwhile, agile competions are ending your madest thans. Speed to digitalization

ted technology to enable titler customer focus with Etter customer insights, more personalized customer experiences and increased process automation. Knowing your customer's behaviour and needs allows personalized customer and enables and increased process automation. Knowing your customer's behaviour and needs allows personalized customer and employee efficiency and supports must decision making during the customer journey, that will ultimately customer and employee efficiency and satisfaction.

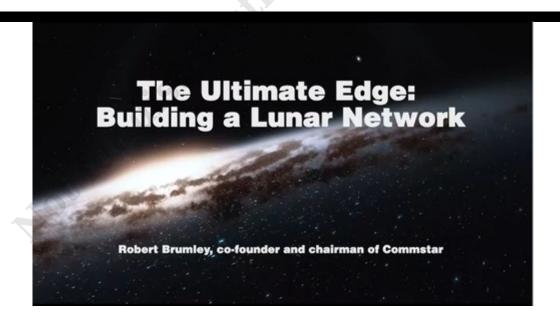
Modular, Devible, cost effective and scalable digital solutions

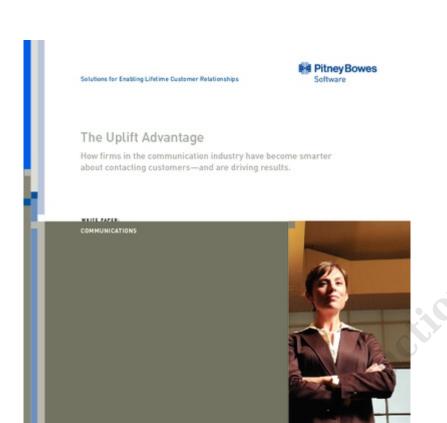
Etya Digital Business Platforms are 5G ready, agile, end to end, and fully virtualized digital solutions

digital glatforms. They are cloud-eative, full-stack glatforms that are pre-integrated into partner solutions and include all Etya's product portfolio: Customer Relationship partners solutions and include all Etya's product portfolio: Customer Relationship partners solutions and include all Etya's product portfolio: Customer Relationship partners solutions and include all Etya's product product Databog, Order Management, Configure, Price, Quote (CPQ), Product Catalog, Order Management, Order Management, Billing and Charging and API gateways. They support both 82C and 828 customer segment.

Since the platforms use a modular, API-driven architecture, they are flexible. CSPs can select to launch a full-stack new BSS glatforms, to replace their legacy glatform, or modernize it step-by-step, by choosing which platform components they want first and add new solutions, as needed, later.

Digital Experience	Online self-care, E-commerce, Mobile App. Content Management	Ope AP
Digital Engagement	ORM, CPQ, Offer Management, Rewards & Leyelty, Community Management, CSM, Recommendation Engine, Order Management	
Digital Enablement	Product Catalog Management, Charging & Rating Management, Billing Management, Partner Management, Policy Management	





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