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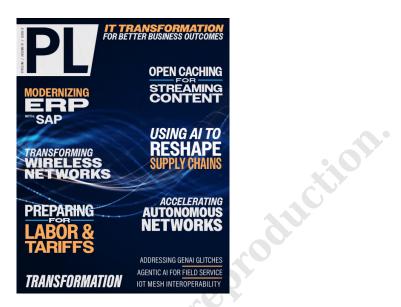
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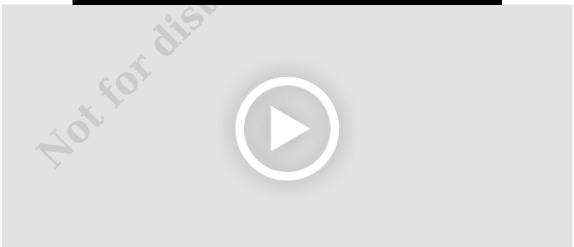
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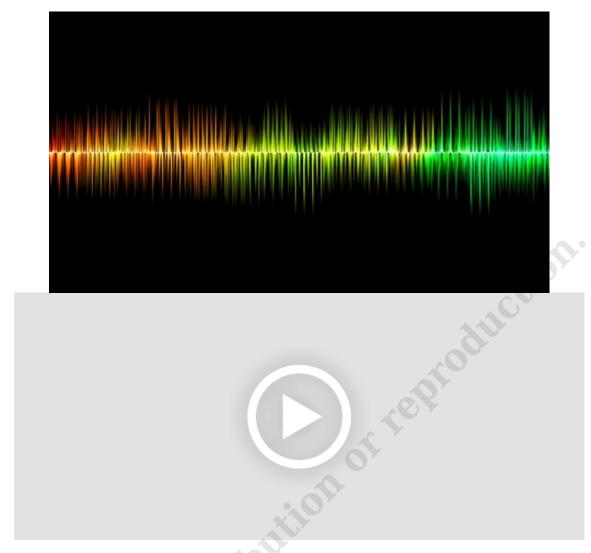
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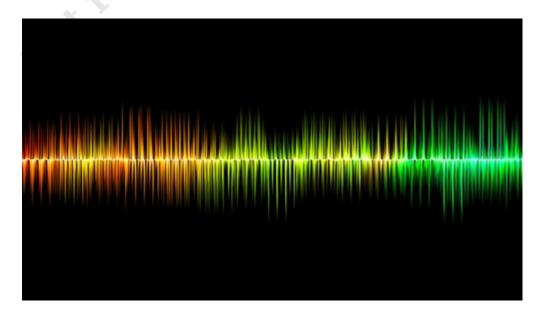
**End-to-End Solutions for Broadband Networks** 

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.



**Predicting Colonial Pipeline: Mitigating Risk and Compliance** 

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





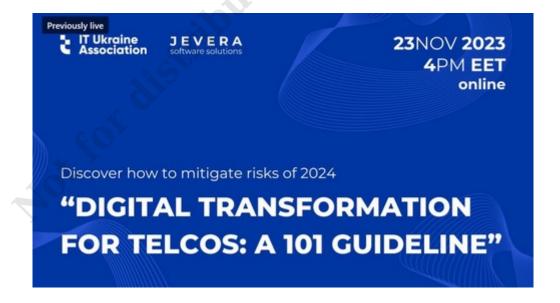
Podcast: The Evolution to 6G

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

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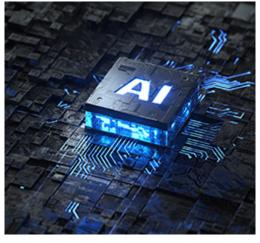
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Integrating to Mediaroom: Using Media(n) to Simplify the Experience A White Paper

Document Version: 1.0

Date: July, 2011

Author: Fredel Thomas, Director of Product Management

mars Page

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#### Accelerating the deployment of 5G with simple and flexible transport networks



Mobile Network Operators (MNOs) are struggling to meet the demands of connecting their existing 4G/LTE networks, building out transport for new 5G networks, and laying the groundwork for distributed compute. ADVA can help with a proven solution that meets the operational requirements and the demanding business case.

#### Challenges faced by MNOs in their 5G transport network planning

MNOs aiming to deploy 5G face a fundamental question of how to design their transport network. This is the network connecting cell towers and small cells to their core network. It is referred to as Mobile Backhaul, Fronthaul, Midhaul and X-Haul, depending on the technology used.

MINOs plan to make a strategic investment in fibre for mobile transport, with microwave and mm wave radio deployed only where needed. Drivers for microwave include cases such as avoiding delays in fibre deployme and overcoming obstacles in geographic regions such as roads and natiway infrastructure.

In addition to the physical medium for transport, MNOs face other questions in three broad areas:

- . Support of existing 4G macro cells, and new 5G cells
- output or enoung 40 micro cens, and new so cens
  Architecture and technology selection

  Architecture options such as the optimal location of edge compute

  Technology options and protocol selection such as use of small cells, majebie MIMO, C-FAN, common radio public interface (CPRI), eCPR, O-RAN, and backhaul

  Accommodating sharing of the transport network to bring cost per cell site down

1 https://www.goma.com/spectrum/wp-contents.ploads/2019/04/Mobile-Bayillaud-Options.pdf

February 2020

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Page 1 of 8

Cijon.

## THE EMC SOLUTION FOR SERVICE **ASSURANCE**

Transform Healthcare IT with an application-first approach to IT management



#### ESSENTIALS

- figuration Hanagement

#### THE FOCUS OF IT OPERATIONS

OPERATIONS
"The goal of IT operations is to enable the business to operate more effectively, more efficiently, and with lower risks and custum short, IT operations isn't about bits, bytes, and bare metal; it's about enabling business leaders to do what they do besti run the lower enable.

#### ENSURING HEALTHCARE SERVICES AND APPLICATION PERFORMANCE

As a CIO or IT leader of a Healthcare company, you have a twofold charge:

- Ensure applications and ET services are delivered consistently and at the highest possible levels—because that's what the business and end users care most about.
- Fully understand and effectively manage your IT service delivery environment, so that service levels to the business can be met or exceeded, orgaing operational costs are minimized, and problems—when they occur—can be resolved rapidly with minimal impact.

#### CHALLENGES TO TRANSFORMING IT

Moving applications to the drud makes service assurance anything but easy. Factors such as the dynamic nature of a virtual data center (VDC), the rapid pace of IT change, lack of operational visibility and insight, and ineffective problem management make providing service assurance more of a long-term goal than short-term-reality for many IT leaders. They need answers to critical management questions, including:

- How can I ensure applications and IT services are delivered consistently and at the highest possible levels?
- How do I understand risk conditions and business impact so I can prioritize my
- How do I monitor, isolate, report on, and prioritize fault and performance problems more effectively and efficiently?

#### IT MANAGEMENT THAT ENABLES SERVICE ASSURANCE

Fully understand and effectively manage IT service delivery, and, in turn, provide service assurance to the business with the EMC® Solution for Service Assurance:

Virtual Data Center Visibility

- Configuration Management
- · Identify and Act

EMC<sup>2</sup>



# Introducing our New State-of-the-Art Geographic Platform

One of the ultimate goals of Broadband providers is to bring fast, reliable service to their customers, who are often located in rural parts of the country. Connecting unserved or under-served communities through broadband technology improves their very of life and closes the digital divide. But doing so can be costly and time consuming.

What if there were a way to make it all easier by streamlining each phase of your network implementation, improving decisions by using real-time data and therefore optimizing your curren and future operations?

CHR Solutions is a poven industry leader with over 75 years of experience and we have found a way to expedite your builds, decrease labor costs, forecast in real time, and increase monetization to speed up broadband access to rural America.

#### Geospatial Data is Not New-But the Way We Use It Sure Is.

By using Geospatial data in a unique way, we provide our clients with a platform that utilizes real-time information to impose efficiencies, take the guesswork out of decisions, and utilimately increase a peed to market. The platform features a customizable dashboard that enables all aspects of your business to format and display the data in a way that optimizes its use in their specific operations.

#### CHR's Geographic Pistform

- Improves afficiency
- Takes the guestwork out of decisions
- Increases appead to market.

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#### The 2014 COMET Executive Summit

amdocs

NOKIA

Pipeline confinues its legacy of bringing together the world's leading service providers and technology innovators this fall at The 2024 CONET Executive Summit.

This exclusive event is gathering lay executives from the world's leading operators with lay technology developers and enterprises in an intrinse symposium to explore the latest tends and challenges in communications and entertainment technology (COSAET).

The CONET Executive Summit is a flexible, highly interactive format that is Stad with unprecedented networking approximities designed to build relationships that can be corried forward to solve the issues and challenges facing service providers and industry today.

And characterists being series provides a non-invary occup.

Plegister belay to stay on the edge of topics to be covered at the CONAT Executive Dummint, such as:

- In a treat is country

- Big data & analytics

- Big data & analytics

- Agilla Publike tures

- In a treat is eablytics & sixtualization

- Custames experience management (CEAI)

- Exploring cloud of thinings

- Enabling rew thusiness models

- Debineting and assorting sight services

- Leveneging con tent

Attend CES 2014

Pipeline has arranged special accommodation rates more than half off the regular hotel rates for all CES attendees at the USG rant Lussay Collection Hotel, part of Starwood Hotels & Records Worldwide . Space

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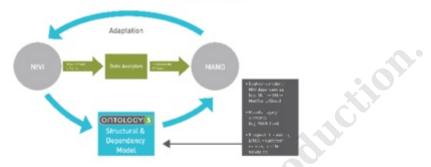


As NFV moves from labs and trials into production, the need to assure the services it delivers has become urgent, but legacy tools struggle to deliver because they are unable to absorb the new reality of automated, high-speed orchestration.

Ontology 5 builds a real time service topology across legacy, physical, logical and virtual service components and uses it to power next-generation service inventory and assurance functions for NPV, hybrid and multi-idonual services.

This complete view of service elements, at all layers in the infrastructure in complex and high-automation environments, is indispensable to operationalising NFV, enabling functions such as:

- Service assurance and service impact analysis in both next-generation and hybrid environments.
- . Coordination of multiple orchestration components
- Cioce integration with the OSS/BSS required for functions such as order and trouble ticket management.



Building coherent and complete views of "legacy" infrastructure and services is a hard problem because of the valenty and quality of the source data required to do so: It is spread out over many systems and is generated by processes with many manual steps that introduce noise. This is a problem that Ontology 5's Intelligent 300 for Aerovick Operators has already solved.

The high-automation in virtualized environments will mean that data is of much higher qualify -just pin each of those environments - but it will nevertheless come from a range of sources - VMM, orthestration, data optice infungement, and of course, the OSS- and it will be much higher velocity data. OSS and network digital or start is look like "big data" in high velocity, high volume and high variety. Ontology S's real time features are randy to address this.

Cost-effectively combining these two worlds is what Ontology 5 does, so you can continue to knew your network; new.

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info@entology.co

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# Sigma Systems and TiVo

#### Orchestrating New and Enhanced Entertainment Experiences

As consumer demands for a more personalized video entertainment experience continue to skyrocket, service providers are seeking new ways to remain competitive and seamlessly deliver over-the-top (OTT) content to subscribers. Today, Sigma Systems and TWo have developed an integration partnership to help service providers achieve this goal by embacing and provisioning the TWo video pilatform as a part of their bundled service officerings.

#### One Managed View of Video Access Entitlements

Critical to the success of offering a service like TWo to customers is the ability to seomlessly enable them to access and view subscribed content from the TVIo device. Sigma Systems provides the service orchestration for the necessary authorizations, entitlements and provisioning of the TVIo service for subscribers through a single OSS solution – an essential element to delivering both on-network and 3rd party content and entertainment services. Subscribers receive the content they want, while service providers maintain outtomer satisfaction.

Provision and Manage Premium Video Service Products & Packages

Delivering new entertainment experiences to subscribers doesn't have to involve an immediate and costly video network evolution. Sigma Systemic empowers service providers to leverage existing video networks in order to move beyond linear for servicens such aid signal TV, PPV, VOCI, and DVR/PVR through support for next-generation P video patherms, sile. TWo, on a single integrated OSS service management platform. This co-existent service fulfillment environment manages. the provisioning and activation of all video services, helping service providers to launch new premium video services and bundled packages that drive new revenue and reduce customer churn. In addition to viewing premium video and entertainment services offered by TiVo, service providers can also integrate with and deliver existing video products on the TWo set-top box.

Effectively Manage the Entire Video Delivery Chain
Sigma Systems is the only OSS vendor today that has created a TIVo solution adaptor. With this unique solution adaptor. we have extended our video service fulfillment expertise beyond linear TV by enabling the support, integration, and provisioning of the TiVo service. Our single, integrated OSS solution seamlessly provides order management, provisioning and entitlement management across all technologies and systems. This single integrated solution manages one image of the TiVo service delivery value chain for the subscriber, network, device and content from the cloud.



# **Presentations** Collect. Monitor. Analyze. Visualize. Actionable Intelligence for a Safe, Secure and Connected World

## **Brochures**



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 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.

AOI ROI BIRLIN

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.



# **Whitepapers**



Keep your distributed network ship-shape by ensuring that globally dispersed access points don't represent security leaks. Our Secure Access and Single Sign-on Solution gives you a crows-nest view of who is accessing network elements, and the potential impact.

#### Know your crew

Securing large, multi-vendor, multi-technology networks can be a daunting task, With thousands of person relaccessing thousands of network elements, the problem is clear, flut a consistent set of security procedures can help—as long as you know they are its ing followed. Still, how can you manage security in an environment who is different element management systems Notes with began to a structure value of the section of the sectio Secure Access and Single Sign-on from Nakina Systems colors these complex issues by assigning security privileges by user in a central location and tracking activity in easy to access reports.

#### Watching the horizon

Aoi for distri

When something goes wrong, the ability to quickly audit who accessed network elements, if they made any changes, and from what network entry point they accessed them, can make the difference in meeting service level agreements. Nakina Systems' Secure Access solution allows security ad ministrations to implement a single use ninterface to control and manage all access

to network elements and element management systems in the network. A based ange of security policies can be created and enforced networkwide, and administrators can audit activity at anytime.

#### Set sail safely

Natinals multivendor security management solution offers the ability to:

- Centralize security policy at ministration via a single tool that integeries into existing corporate identity management systems
- Standardise the implementation of security policies access multi-vendor environments
- Enforce robust and consistent security policies with automated network-wide security measures like pastword aging and minimum alphanumeric pastword requirements.
- Customize security privileges at the individual use risvel and define and assign privileges to a user or group of use is based on job responsibilities.

#### Key Punctions

The Nakina Secure Access and Single Sign-on solution addresses four key problem areas:

Network Element Security

This between soldes the security
administrator to automate and centre by
makege user password management
across all activors demonstrated and a lament
makegement systems.

User Security Proxy
This allows users a single portal with his or her own unique account cardentals and a list of authorise of applications or elements, significantly simplifying and improving the end-use resperience.

User Privileges

The eachies the security administratorio assign user access privileges by network element or element menagement system.

Restricting

This enables the Security Administrator toce stally log, review the activity of and terminate solect individual serversions.

WWW.NAKINASYSTEMS.COM

# **Case Studies**



# CUSTOMER SUCCESS STORY: SINGTEL OPTUS



iliciion.

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.

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 Rhei-billity and functionality, which supports the concept of a "market of one".

#### RESULTS

RESULTS
Objects has reduced overall cost of ownership and improved operational efficiencies with lower bill processing cycle times and seamless insteam a operations, not to mention reduced spend on accessing data and increased time on servicing its coporate and government outstomen.

#### OPTUS - AN OVERVIEW

OPTUS — AN OVERVIEW
Optus, now owned by telecommunications glant
Singfel, commenced operation in 1992 and is one of
the largest or munications service providers in
Australia. It has more than six million customers
today and prevides a broad range of communication
services including mobile, national and long distance
services, local telephony, international selephony,
business network services, internet and satellite
services and subscription television.

## ORGANIZATIONAL STRUCTURES

ORGANIZATIONAL STRUCTURES
REFLECTED WITH EASE
Singleview's hierar thies provide powerful
aggregation freatures, which allow for the
management of complies coppore and government
accounts. The ability of Singleview to imitate these
organizational structures is abilityed via its superior
and multifaceted hierarchies. Each account is treated
individually, allowing billing, reporting and involcing
to be tailored to need the client's individual business
madel. These hierarchies can recreate see a o
levels deep with the usands of nodes.

#### BILLS AND REPORTS AS A SELLING TOOL

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

There are two key benefits for Optius customers:

One single bill for all products and service.

Advanced multiple prporting functionality.

IBM Software Information Management

## Network Analytics: Turn Big Data into Big Opportunity

Seven Steps for Network Operations, Marketing, Customer Care and IT



IBM.

# Pipeline

Navigating the Chaos: Identity Access and Configuration Management Strategies for SDN & NFV





## Mobile Video Policy Control

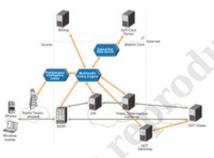
- Generate new revenue with mobile video services
- to spedific customer segments
- Align revenue and network costs using dynamic policy controls

Business Requirement
There is no question that video is both popular and consumes more network resources
than almost any other application. A look at oursent data points tells the story You'lube
has become the second largest search engine. Nobile video is predicted to grow 46 fold
from 2009 to 2014 and consume of 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-stee-fit-sall" approach. Insoverer, with the advent of data-nich services like mobile redee, that approach has a number of shortcomings. In fixed networks, peoparabical service demand can be accurately predicted and the networks built out accordingly. However, mobile networks, by returns, enable movement, which makes it more difficult to predict geographical service demand and network build out. Moreover, operators are increasingly investigating and deploying triend principal plans, which offer end users a variety of service levels and options that go far beyond the "one-size-fits-all" static provisioning approach.



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Mobile Video Architecture









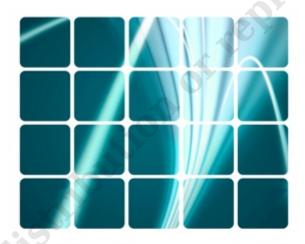
Ontology Real Time Inventory for NFV

September 2015









LTE and Offline Charging: Driving the Need for a

**Lower Total Cost of Mediation** 

WHITEPAPER, BY ROBERT MORRISON



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