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PC-BASED LLMs & AI HAVE ARRIVED





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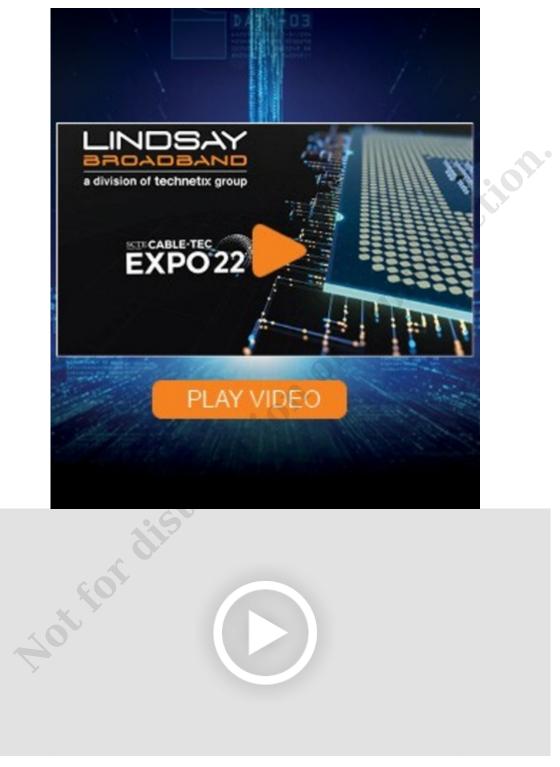
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ServiceNow Makes Strategic Growth Investment In InMorphis

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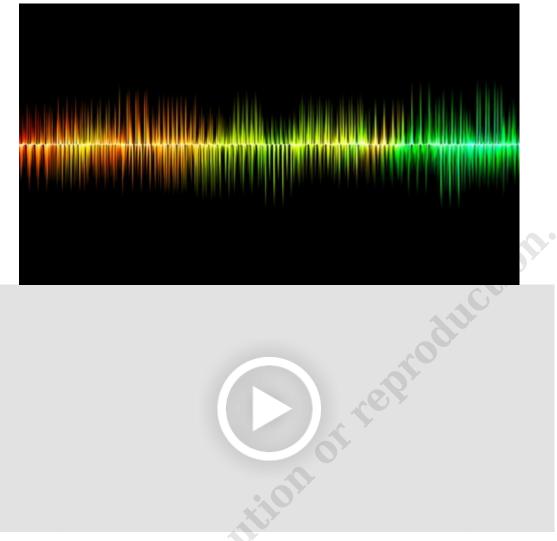
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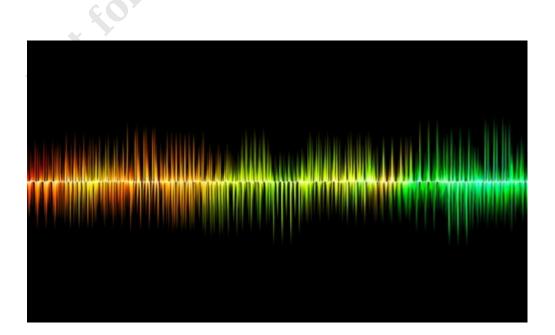
End-to-End Solutions for Broadband Networks

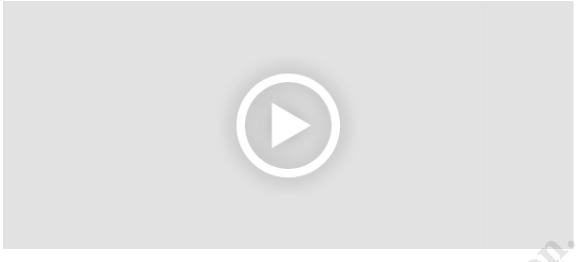
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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.





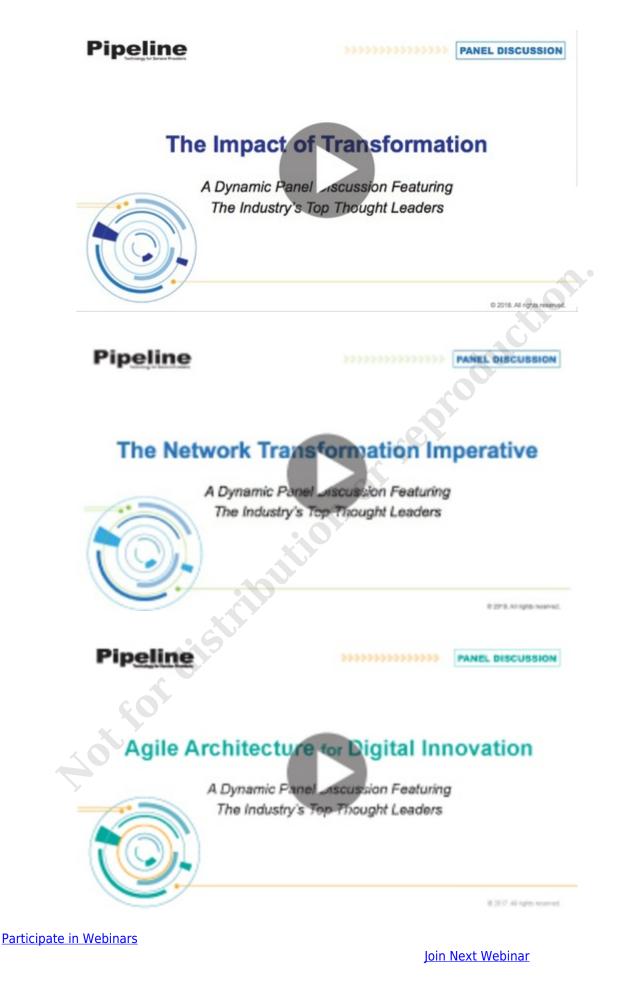
Podcast: The Evolution to 6G

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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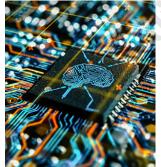
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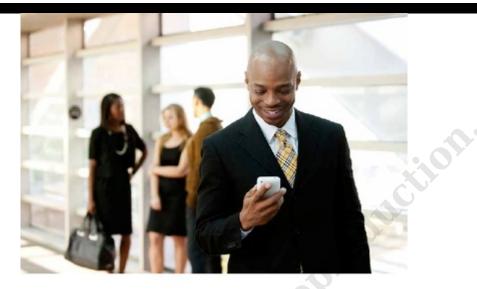


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CAPACITY ISSUES DRIVE MEDIATION SYSTEM REPLACEMENT





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Report

Reducing order fallouts: Key to success with business services January 2015 Mark Mortensen and Anil Rao

www.analysysmason.com

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MATRIX

MATRIXX ONLINE CHARGING

The Need for Speed and Real-Time

Everything is moving to real-time. Consumers want ubiquitous connectivity and instant access to applications, media, information and social networking. In today's diverse communications marketplace, there are a number of factors that are driving service providers to interact with subscribers in real-time:

- Increased adoption of prepaid services and payment methods
- Bill Shock prevention and spend control
- Third party content and applications
- 4G and LTE network rollouts

As these forces create a new Telco 2.0 marketplace, three trends are apparent; IP networks are the de facto standard. The usage events from these networks and the services that run on them are growing exponentially. Services providers need to interact with subscribers in real-time to deliver the exemplary customer experience and control required in the all IP environment.

As these trends converge, network bandwidth becomes a coveted asset where the return on investment needs to be maximized. This can be achieved through the shaping of subscriber consumption with a subtle combination of segmented pricing models, service class options,



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personalized offers and subscriber policies. Get personalized offers and subscriber policies. Get it wrong and the customers will head to the call center or even churn. Get it right and you've created an informed, dynamic relationship with the subscriber, turring bandwidth usage threats into opportunities and delivering an individual and compelling customer experience

Service providers are challenged to keep up with subscribers' growing appetite for real-time-based services, keep their competitive edge, and keep coats and operational expenses from spiraling out of control

MATRIXX Online Charging Empowers Operators to Meet the Real-Time Challenge

MATRIXX Online Charging helps service providers meet the challenges of the Telco 2.0 market by providing the industry's fastest, most efficient resi-time charging application.

MATRIXX is the only real-time charging solution that can provide the scalability and speed needed to move to an all real-time world, while providing an extremely low and predictable Cost Per Transaction (CPT).

MATRIXX Online Charging delivers sophisticated real-time rating and discounting capabilities, giving operators the edge to differentiate, personalize and ig. successfully compete.

Its extreme performance supercharges operators to accelerate their service offerings and easily scales to cost-effectively manage surging network traffic.

Its stability and efficiency drive increased profitability by providing operators with predictable and measurable costs so that service profitability is determined and ensured before services are launched.



White Paper

Common Language Drives Customer Value for All Network Technology: 5G/MEC and Virtualized Networking Included

Sponsored by: iconectiv Karl Whitelock January 2021

EXECUTIVE SUMMARY

iconectly TruOps Common Language was established to facilitate the service design and asset tacking needs of the operations and business management processes for pevaling and emerging network connectivity architectures. Common Language has been used by communications service provides for over 40 years.

Complexity from new technology evolution (e.g., network virtualization, private networks, hosted networks, 5G, multi-access edge computing (MEC), and the Internet of Thirgs [oT]) explains assets to be aligned with business and technical objectives to keep costs within expectations, address end-toend (E2) textico objectives, support partner accountability, maximize interactive efficiency, and show business management responsibility. On the basis of its successful bing-standing customer implementations and evolutionary approach to the extends management processes, Common Language is expected to pipy a major xis in the evolution and deployment of new fulfilites-based networks and the virtual aspects upon which these new technologies come to rely.

This paper explains how teams with network and partner-provided asset management responsibilities can achieve business value by maximizing the use of common normenclature. In addition, the paper describes how a common naming strategy improves the effectiveness of real-time network operations and lex pusiness management functions. This paper also explains how Common Language can bring increased awareness when defining, isunching, and managing new network-based services.

Introduction

As network technology and business strategies continue to evolve, the greatest challenge asset-based communications service provides face is how to manage the physical and virtual assets that define the services they provide. Understanding the physical and bigical placement of assets is atmospic to serveral international potentions functions including network/participations, service onchestration, catalog, activation, network assumese, service-level agreements (SLAs), policy, mitrig, and cherging. The multilevel construct of the underlay and overlay connectivity inflastructure and the EQE patheraixed services to customers of all types trings additional layers of assettincking complexity that must be addressed by each of these basiness and operations management domains.

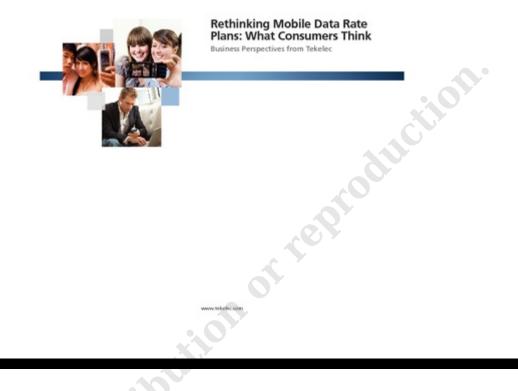
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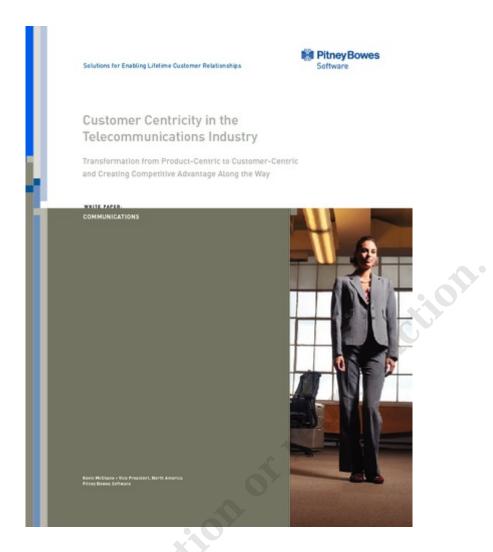
ction.



WHITE PAPER



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Brochures Brochures

Cloud Connectivity Management Made Simple: Your Cloud Services Are As Good As Your Network

Adving - CTO Office EXEC

INTRODUCTION

delivery of cloud services, norm have an much impacts as cloud carries. But length of cloud services, norm have an much impacts as cloud carries. But first, let's start with a simple question: "What exactly is cloud comparing?" According to the delivrition meaning published by the intervols models of Standards and Technology (MST), "Cloud omputing is a model for enabling publishing ables computing resources ling, networks, services, storage, applications and services ling, networks, services, storage, applications and variangement effort or service provider interaction." The document characteristics, in addition to service and deployment models. The sevental characteristics are: on dermand of generative, hand networks access, resource pooling, rapid elasticity and measured services. <u>BMS</u> published, characteristic is provided in the following <u>HST</u> published. By applying a network wing of hese characteristics, is a boorness mendeline yours that a static and clausie networks in out able to deliver on these providers. An intelligent and dynamics to table to deliver on these providers in the static and dynamics.

IN FIGUOUS FIUM Cada denices are field by Grail for senice-providers. As enterprise customers took to reduce IT expenses, claud senices are looking more provising than ever in terms of achieving these savings. Although multiple stateholders are increasingly involved in the externed with provider to the same of achieving involved in the shift field with a winder, are increasingly involved in the shift field with a winder, are increasingly involved in the shift field with a same achieving and claud carriers that field with a same achieving and claud carriers that field with a same achieving and claud senice shift field with a same achieving and claud senice and high-availability.

Our displication correctivity can be described as the correctivity between cloud context. This connectivity provides the ability to more data between the computing resources via different data centers. For doud application correctivity, services must be high performance and be available at all times.

This application note discusses the technologies being used to deliver the different type of connectivity, and the management steps (e.g., activation, performance monitoming and trocklenboding) required to successfully deploy cloud computing services.

GOT CONNECTIVITY?

To deliver doubt computing services, doud providers must possess the computing inharatriculare molessary to process and store very large amounts of data, and may on cloud caretiens to connect di the pincen together. This section covers the different types of connectivity used to deliver cloud camputing services in more data, and also covers the technology and to achieve this connectivity.

ction.

Goud Transport Connectivity

Development of the solution of the solution of the solution of the solution that the most of the solution that the most of the solution that the solution that the solution that the solution the solution of ations, it lacks the all rity, network pe ance [MEF CS]



Figure 1 shows the data flow for deliveri services and the two types of connectivity ing cloud comp required, as fol 1. Cloud transport connectivity

2. Cloud application connectivity



Whitepapers Not for distrib



Deliver clear e-bills to business customers, provide the management information and outcomized reporting they need to effectively manage their accounts and services, simplify integration with existing infrastructure. Improve ROI and reduce risk.

Consolidated e-billing and Analytics for Business Customers

Communication Service Providers (CSPs) are faced with the challenge of how to increase revenues and drike up profitability despits intense competition and slow growth in core markets. One invenue growth strategy being pursued is to expand into new business areas and increase the range of products offend. However, this expansion can increase billing complexity and have a negative impact on customer asperience. As business customers represent a significant source of revenues for CSPs, it is imparative to deliver increasing levels of value to customers while reducing complexity and minimizing the cost to serve.

Businesses are demanding access to tools that enable them to view their comolidated bills, analyze usage, leverage business intelligence reports and control the cost of the services they use across their organization. CSPs need to satisfy this need to differentiate from the competition, attract and retain key customers, and efficiently deliver a superior customer experience.

MDS BillAn alyzer

MDS BillAnalyzer is a sophisticated e-billing and analytics application that allows you to present an integrated view of products and services to business customers. It provides a seamless customer asperience from disparate billing systems and allows business customers to manage their consolitated bills in a convenient manner that eliminates the need for paper bills. Powered by the Lanatorm Analytics Engine, MDS BillAnalyzer provides light-touch integration capabilities to deliver rapid go to market and low-risk dieployment that capitalizes on existing infraetructure.

MDS BilAnalyzer



MDS Billinatyser Analysis Dashbox

Advantages for CSPs

Single Viewof Products and Services

MOS Biliknalyzer has been designed to be bilingsystem agnostic. It streamlines the task of bringing together information from multiple biling systems, presenting the customer with a single, converged view of their services. Its non-intrustve ETL functionality and standard APIs simplify the capture of data from multiple sources, provide capture of data from multiple sources, provide cast synchronization and assurance, support data enrichment for presentation and offer rapid system integration with low project risks and costs.

Single View of Customer

With MDS BillAnalyzer, CSP care staff and relationship managers can view bill and usage data in the same wayas customers. It provides them with a holsic view of the outsomer and their services, enhancing firsttime call resolution and happing staff to have a better understanding of the true value of the outsomer.



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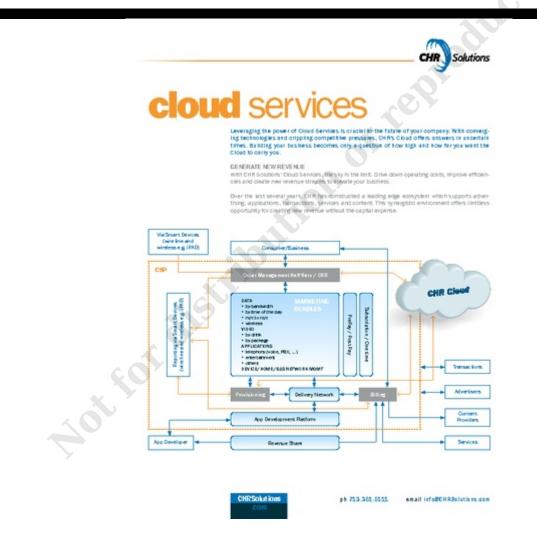
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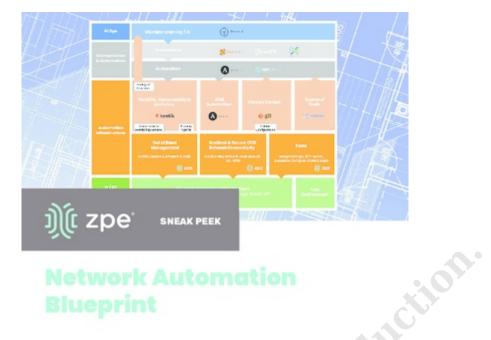
ONTOLOGY 5

Ontology, NFV and the Future OSS September 2015

Videos







é relia. A best practice reference architecture for achieving secure & reliable digital services







The Internet of Things (IoT) is not new. Neither is the rapid rise of connected devices or customers' demands for instantaneous service. These are realities of digitalization. While they have become normalized, they are by no means the final destination on the journey to digital transformation. They are merely the first wave of the transformation process. In their wake, the next round of changes is brewing. These changes will require providers turn their focus to the periphery of their networks and get closer to their customers. This next frontier for providers to conquer? **The Edge**.

etworktransformation.fntsoftware.com

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tion.

EXFO Service Assurance and Juniper Networks Assure Performance and Quality of Multiplay Networks

BENEFITS SUMMARY

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+ Ensures service performance and quality throughout the multiservice delivery network

Enables service providers to establish a quality advantage to increase customer satisfaction and reduce churs > Delivers actionable information to preactively identify, diagnose and resolve issues before subscribers are impacted > Reduces operational costs by minimizing truck rolls and maximizing technician and customer service time

The promises of increased average revenue per user (ARPU), lower operational expenses and gaining a competitive advantage are driving service providers to expand their multiservice IP networks. Voice, video and data services over separate networks are being converged over net-operational IP metworks to deliver interactive multiplay service efferings. Providers are banking on these multiplay bundles to build customer logality, increase customer satisfaction and agrificantly reduce chum.

As providers roll out these new, dynamic business, communications and entertainment services, they face significant challenges to deliver services bundles that exceed the quality espectations of their subscribers. While the converged network simplifies service delivery, it is very complex and must be properly managed and monitored to meet quality of experience (CoE) and quality of service (CoE) expectations.

BUILDING A SERVICE-AWARE DELIVERY ARCHITECTURE

The launch of multiplay services requires that best effort Internet networks evolve into secure, realised infrastructures that can assure user experiences. The transition introduces many considerations that must be addressed. For example, sideo service delivery can vary gradly from one time to another with multiple sources impacting traffic volume and quality.

Delivering multiplay services means service providers must re-examine their network architectures and make decisions that will affect their success new and in the future. Offering a broad portfolio of scalable, retelligent systems, langer fetworks provides service-aware network subclass for introducing and further developing multiplay services. Jumper's usinger commende edge architecture enables the dynamic allocation of bandwidth, to efficiently deliver high subclass provides service enables the dynamic allocation of bandwidth, to efficiently deliver high subclass, and particle sources, including vision, idea, date, gaming and more. The company's proven experience and pathenships with companies like EXPO Service Assurance give provides confidence in their exocution.

THE NEED FOR MULTIPLAY SERVICE ASSURANCE

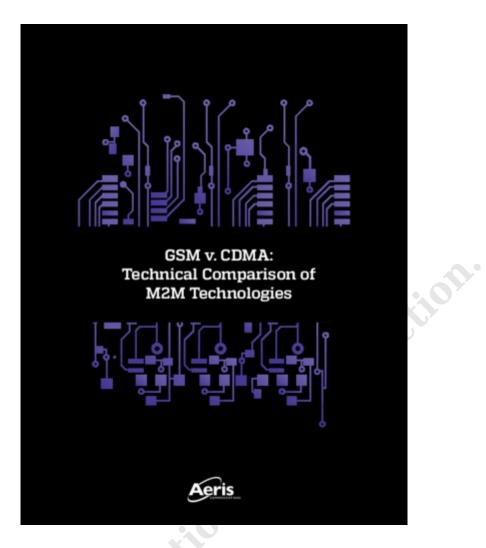
While builded multiplay service offerings can help build customer loyally, it is easestial for providers to monitor the performance and quality of, their services to continuelly ensure customer satisfaction. Quality and performance issues that can result in service interruption and downteries will force customers to switch to other providers that can promise higher quality services at similar prices. Competition is pushing previders to develop an advantage based or quality because price alone is becoming less of a factor.

To establish a quality advantage, providers need to shift from pure network management tools to converged service assu-ensure the end-to-and delivery of critical IP envices. Simply guithering statistics from network devices does not offer pro-service intelligence to monitor performance and quality.

A converged service assurance solution coupled with a setwork capable of supporting multiplay services enables, providers to meet customer expectations and verify service level agreements (SLAs). Service quality matters and business success reles on it. iders to continually

tionor









THE EMC SOLUTION FOR SERVICE ASSURANCE

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



ESSENTIALS

Virtual Data Center Visibility Unified management of

- physic al and virtual IT environments Configuration Management
 Coverage across retriction, storage, and servers
- Identify and Act
- Advanced root-cause analysis
 for separating symptoms
 for motion

THE FOCUS OF IT OPERATIONS

- OPERATIONS "The goal of IT operations is to enable the business to operate more efficiently, more efficiently, and with lower risks and envir...In short, IT operations inn? about bits, bytes, and have metably it's about enabling business leaders to do what they do best: roos the busines..."

ENSURING HEALTHCARE SERVICES AND APPLICATION PERFORMANCE

- As a CEO or IT leader of a Healthcare company, you have a to ofold charges · Ensure applications and IT services are delivered consistently and at the highest
- If nour applications and IT services are delivered consistently and at the highest possible level—because that's high the business and end use is 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, orgoing operational costs are minimized, and problems—when they occur—can be resolved rapidly with minimal impact.

CHALLENGES TO TRANSFORMING IT

An indexel in the the dual makes service assumes 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 assumes more of a long-term goal than short-term insight for many IT leaders. They need assumes 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
 - team's actions?
- How do I monitor, isolate, report on, and prioritize fault and performance problems more effectively and efficiently?

IT MANAGEMENT THAT ENABLES SERVICE ASSURANCE

Rully understand and effectively manage IT service delivery, and, in turn, provide service assurance to the business with the ENOB Solution for Service Assurance: Virtual Data Center Visibility

- Configuration Management Identify and Act





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