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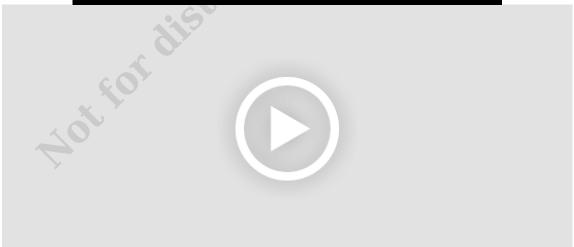
VIAVI Introduces AI RSG

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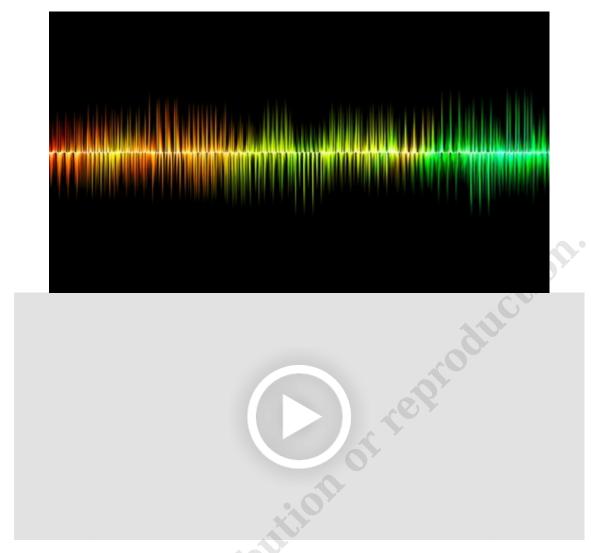
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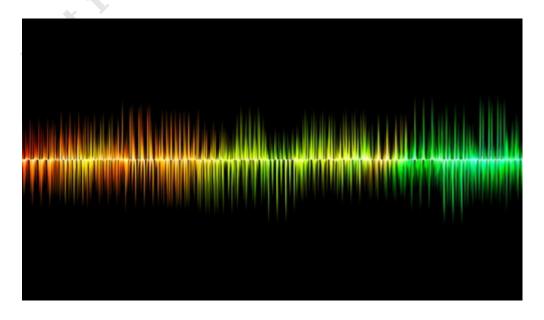
End-to-End Solutions for Broadband Networks

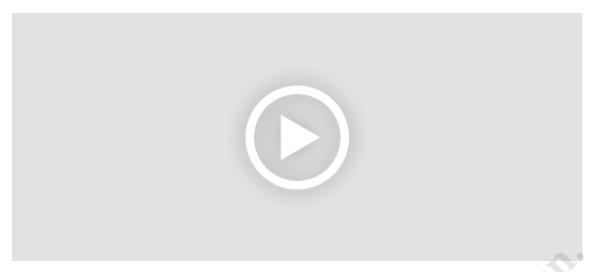
In case you missed Lindsay Broadband - a division of Technetix group at the SCTE Cable-Tec Expo, this video highlights the must-have, end-to-end solutions for your network.



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.





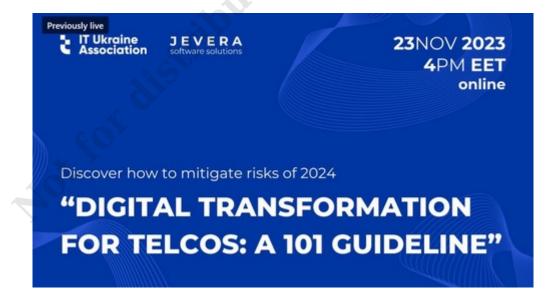
Podcast: The Evolution to 6G

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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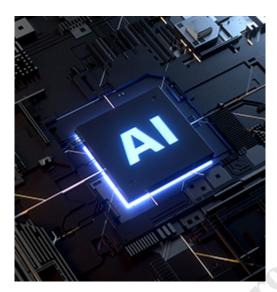
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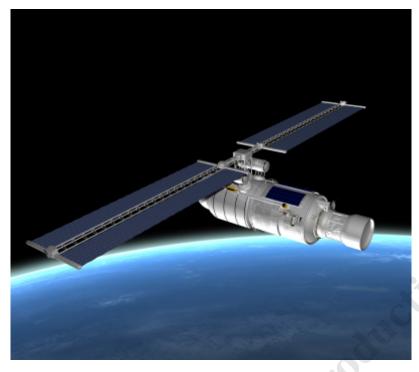


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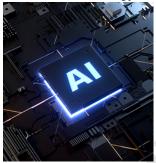
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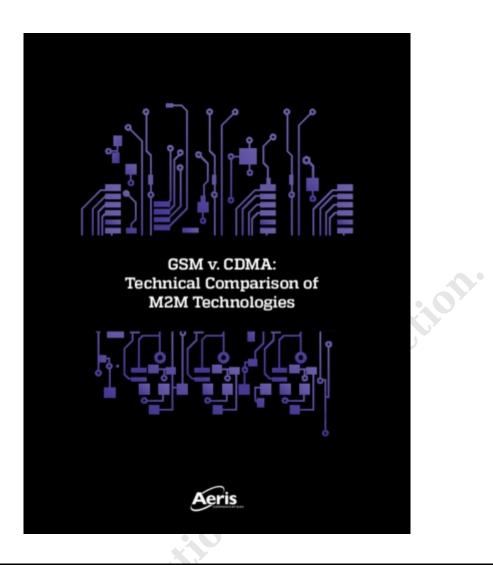
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SPIRIT COMMUNICATIONS

Switches to EMC Watch4net and reduces OPEX by 60%



ESSENTI ALS

- The legacy system (InfoVata) grew too exper and difficult to maintain
 InfoViata was slow to deliver upgrades
- InfoVista's upgrade costs were comparable to

- Watch-inet was deployed in just a few days.
- Watch-lnet is running in a virtualized environment
- Dedicated Oracle, Solaris resources are no longer required, resulting in cost savings

- . 60% reduction in cost-per-managed device
- . 40% savings on collectors and additional modules

- Improved SLA metrics and more accurate billing from more granular bandwidth utilization reports
- Enhanced service offering with ad-hoc reporting and automated report delivery

ABOUT SPIRIT COMMUNICATIONS

Headquartered in Galumbia, SC, Spirit Gommunications provides carrier-class telecommunications services to businesses and government agencies throughout the acutheastern U.S. over its private fiber-based MPLS network. Spirit offers a wide variety of solutions including Vuln S. Fibrushing, book and long-distance calling, wholesale long distancer SS7: AIN, on-demand video conferencing, audio/Web conferencing and hosted Internet services. Spirit Communications prides itself in providing solutions that are reliable, flexible and responsive to outcomers' business

Munitoring efficiently the wide choice of bandwidth and quality of service along with the service level agreements (SLA) is essential to the success of their enterprise.

BUSINESS CHALLENGE

Spirit operates a mixed network comprising equipment from Acatel-Lucent, Osco, Adva, Adiran, Gena, Brocade and more – Accident, Useco, Adva, Action, Centa, procade and more -over scores of serviers and several thousand network devices. Proactive performance monitoring is strategic to Spirit success in delivering a competitive offering that features a variety of options for granularity of bandwidth and quality of service (QoS). Spirit provisions service level agreements (SLAs) that allow outstoness to select end-to-end per formance metrics based on CIR, frame-loss, delay and jitzer. Spirit's outstoner contracts absolutely require nobust SLA monitoring solution.

40%, savings on collectors and additional modules
Replaced Java JRE with fast AUXCWeb 2.0 front end
Trautieshouting is singler, faster due to

Trautieshouting is singler, faster due to Watch-fred's streamlined or chitecture

Business Benefits

* Increased revenue from premium portal offerings

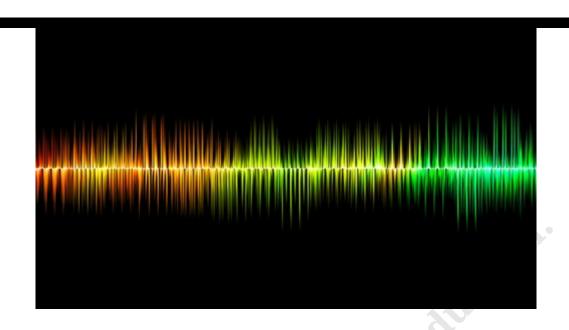
Improved data retection from 7 days to 7 months
of 15 minutes* data!

* Improved 5 A multi
* Improved 6 A multi
* I

EVALUATION AND SELECTION

Spirit embarked on a search for solutions capable of providing performance reporting for Alcohelf-Looset equipment. Spirit determined that the cost of IntoVisia supprades equaled the cost of purchasing an entirely new aduction. Not.1, the IT team carefully

EMC²

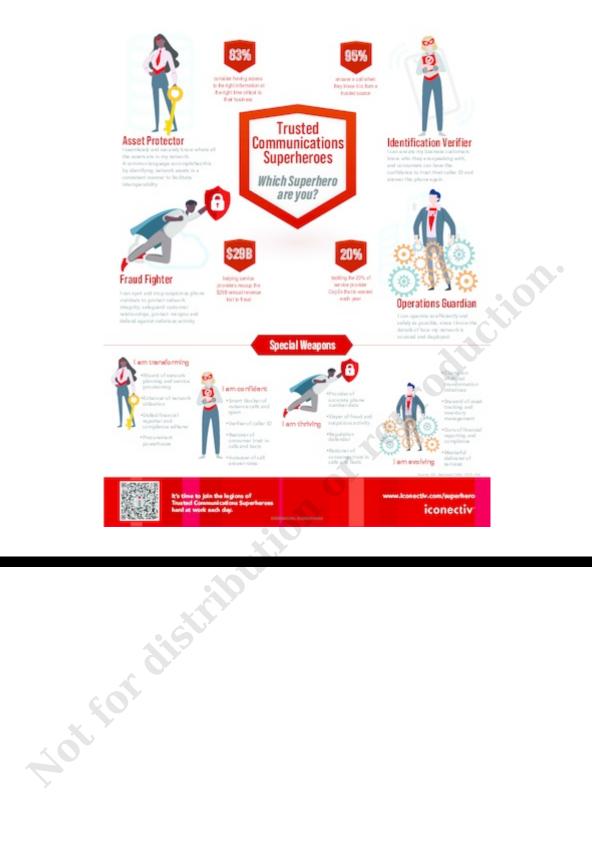


The Balancing Act of Mobile Workforce Management

FULFILLING MULTI-SERVICE OBJECTIVES WITH PRIORITY-BASED OPTIMIZATION

A ViryaNet White Paper





PTP Test Applications

Hammadour Dicko, Product Specialist, Transport & Outacom Blackers Unit

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-makind delexics, 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 and and in

PTP USE CASES

PTP is a packet-based technology. As the synchronization packets used by PTP are forwarded firroughout the network, between the grandmaster and hosts, they are subject to delay fastercy), delay variation (packet jitter) and farmelious. Despite applying high priority to synchronization flows, synchronization packets will all experience congestion as well as rousing and forwarding issues (e.g., out-of-songeneer packets and nove flags). The host dock's hiddover crimin must be stable enough to maintain synchronization in the event that

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 few use cases are detailed herein. Table 1 summarizes the different synchronization testing applications.



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 seamlessly enable them to access and view subscribed centers from the TWo device. Signa Systems provides the service orchestration for the necessary authorizations, entitlements and provisioning of the TWo service flor subscribers through a single OSS solution—an essential element to delivering both on-network and 3rd pasty contract and entertainment services. Subscribers receive the content they want, while service providers maintain outcomer satisfaction.

Provision and Manage Premium Video Service Products & Packages

Delivering new entertainment experiences to subscribers diseas? 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, VOD, and DVR PVR through support for next-generation P video platforms, like TV/s, on a single integrated OSS service management platform. This co-existent service fulfilment environment manages the provisioning and activation of all video services, helping service providers to Isanch 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 TiVo set-top box.

Got distril

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, integrition, and provisioning of the TIVo service. Our single, integrated OSS solution searnlessly provided noter management, provisioning and entitlement management across all technologies and systems. This single integrated solution mininger one image of the TiVo service delivery value chain for the subscriber, network, device and content from the cloud.



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product bulletin

Next Generation Billing and CRM

Next Generation Billing and CFM
Omnis360 transcends traditional billing and
relationship management with a complete 'outof-the-box', pre-integrated customer relationship
management and billing solution. Available as a
fully-hosted cloud-based solution, managed
service or on-size license subscription, this next
generation solution empowers communications
service providers (CSPs) with a citent-centric
model for service differentiation and rapid
deplayment of new services, especially within
the Enterprise space.

Leveraging Microsoft Dynamics® CRM, Omnia360 best-of-breed software platform delivers a comprehensive, turn-hey back office solution for CSPs to monetize the largely untapped revenue opportunities.

Centralized Customer Management

Centralized Customer Namagements
Omnia360 provides a holistic view of your
customers. Within a single screen, service
providers can view all billing accounts
receivable, orders and service details. The
solution helps drive operational efficiency by empowering you to create custom fields, enforce business-specific rules, and even integrate third-party applications with simple point and click customization.

Dynamic Product Catalog

Dynamic Product Catalog
Omnis360 delivers a dynamic, centralized
product catalog enabling the selling and
fulfillment of next generation products and
sentices such as cloud services, productivity
solutions, unified communications and Voice
over IP products—all while enabling traditional
voice, wideo and data products. This unlimited
product hierarchy capability helps optimite sales
accuracy while reducing the time it takes to
complete the entire lead-to-cash cycle.

Powerful Business Analytics

It is critical for management to be able to monitor business performance. With Omnia360, management maintains a single scorecard that covers sales, marketing, and customer service. This up-to-the-minute information provides inline charts with drill-down intelligence to visually navigate data, identify trends, and uncover new

Market Leading CRM

Market Leading CRM
Combine the familiar Misrosatte Office fluent user interface with powerful CRM software to maximize marketing effectiveness, win more sales, and enrich outtomer service interactions. Leveraging the power of Misrosoft Dynamicse CRM, marketing and sales professionals are equipped with flexible segmentation tools, simplified company management capabilities, lead-to-cash visibility, real-time sales forecasts, and much much more. Customer service specialists are empowered with tools that simplify case management, streamline escalations, improve knowledge sharing, and enable more effective account management, all while helping to contain service costs.

- Improve Monatizetton Oppostunities with a unified customer view and increased pipeline visibility.
- Simplify Business Systems with a complete, pre-integrated back office
- Bevista Customer Experience with consistent customer interactions

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With over 75% of your IT budget dedicated to maintenance,* it's difficult to move ahead.

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And more...

· And more...



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> KEEPING PACE: STAYING
ONE STEP AHEAD OF
COMMUNICATION
INDUSTRY STANDARDS

John Wilme

Chief Technical Architect, Communications

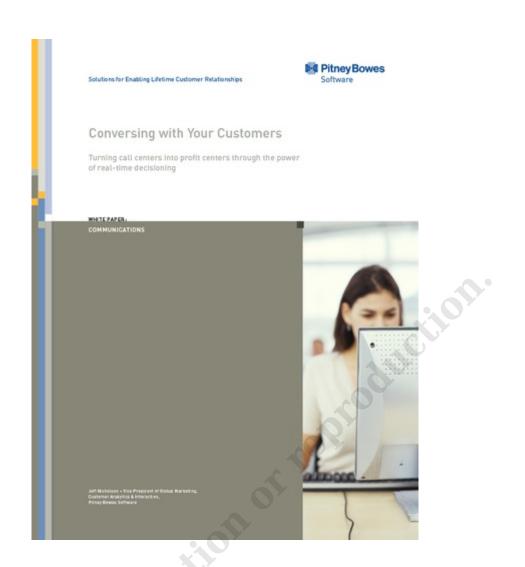
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Rich Media & Communications Consulting



A Communications Industry Whitepaper

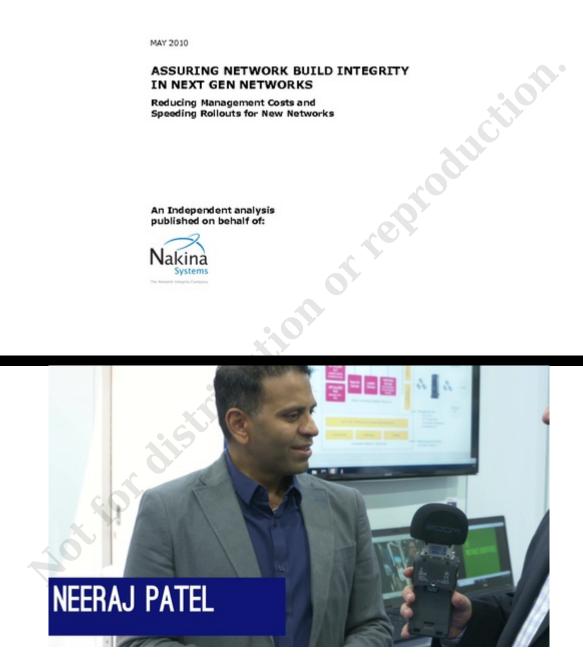
MAY 2010

ASSURING NETWORK BUILD INTEGRITY IN NEXT GEN NETWORKS

Reducing Management Costs and Speeding Rollouts for New Networks

An Independent analysis published on behalf of:







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Use Semantics to Deliver Flexible Service Management and Avoid the Risks of OSS/BSS Transformation



by Arindam Saverjee | April 2009

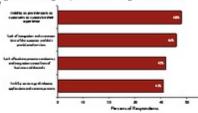
Executive Summary

The customization and convergence of terrifors across application slice and disparate networks are critical to communications terrifor provide as (SCPI) similar to provide increase services, reduce customer chain and drive average post shall report user. CSPI realist that provide an increase services in our enough it is deficial to other and users accurated terrifors with consistent and disparks quality of sharfors (QCQ), which is impossible without an end-to-end unified quatomers and service-level view. This is where most service providers false: Our research deady points out the gluring relations that eaks with most service providers basic-office CSCI EXI systems, which are sypically completed disposed and last of the agility recensively to present a coordinated by Gegene accordinate contract view. It is a recomplical CSPI survey conducted by Yarlines Group, more than 60 percent of surveyed global CSPIs agreed that improved automar experience is directly linked to improved AVMU.

Host service providers take a top-down approach to eap rest customer and service views. However, they often adopt a service model that in most cases does not capture the complexity of missilgned as well as here regeneous underlying infestructure. Only when the relationships among underlying systems, services and castomers are imaged out of the infestructure is it possible to advise the gold of insultional service modeling. Therefore, what is needed today is a bottom-up approach that looks at how existing systems map to existing customers instead of a more staffished top-down approach.

odiliciiloin. CSPs have invested billions to streamline and modernize their CSS 655 infrastructure to achieve the agility required to see all of their assets in Curr have interest counts to treatment and modernist treat round as interest read group and to set as or the right one view, which in most cases had feel to deliver the desired on entire the count of the properties of the second inflating CSPs from being competitive and delivering innovatives so cases ones. Not also segregly the impair to these a common feel of cases many feel according do not delivery and furthers process incommission or an expension of the impair feel problem a common deep of cases cases made and not delivery and furthers process incommission or an expension of the impair feel produce from other or an annual minimum as expension.

Exhibit I. Critical Factors Inhibiting CSFs from Being Competitive and Delivering Innovative Services Source: Trafer Group, 2009



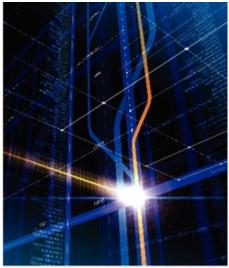
In light of current economic disillanges, in its dear than telecom service providers an equating their capes budgets to align with lower revenue growth expectations. Hence, although a unit ed end-to- end service model remains on top of their priority is presed of Mil-scale and expensive transformation operations. CSTR and managed services providers are locking for an alternative forw-infe information just in oward a unified service model. In this report, we look a CSCTP current to personal interest, their deep deep on a unique, afternative remarked based approach service active control of their control of their

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Accurate and up-to-date mapping is crucial to nearly every element of your business. Everything from network maintenance, emergency response, budget forecasting, and company valuation require these records to keep your company on course.

Relying on single point dependencies and perishable paper records create vulnerabilities for you customer, community and company. CHR's GLS, CAD Senices take the guess work out of geospaticl management and ensure your business is on the right path.

MANAGED GIS/CAD SERVICES



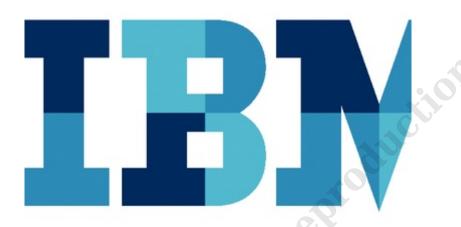


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IBM Software Information Management

Network Analytics: Turn Big Data into Big Opportunity

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



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