

NTI ... a new dawn for data movement!



From Replication to distribution, integration and transformation; NTI is putting data first!

**NonStop TBC, Burlingame
November 2019**

Agenda



- **Pyalla Technologies, LLC**
- **HPE - clouds and hybrid IT**
- **NTI - Vision and Strategy**
- **Introducing - Excellence in Data**
- **Going Pro with NTI**



Richard Buckle – Writer, commentator, speaker, blogger!



Pyalla Technologies, LLC

2009 – present (Celebrating 10th Birthday!)

30 years of experience with the NonStop platform:

Tandem Computers 1988 - 1996

Insession / ACI Worldwide 1996 - 2006

GoldenGate 2006 - 2009

ITUG volunteer

ITUG Board 2000 - 2005

ITUG Chairman 2004 - 2005

SHARE volunteer

Director Marketing 2007 - 2008



Margo Holen – Blogger, Editor, Managerial Consultant



Pyalla Technologies, LLC

2009 – present (Celebrating 10th Birthday!)

30 years of experience with the NonStop platform:

Tandem Computers 1983-1998

Insession / ACI Worldwide 1998 - 2006

XYPRO 2006 – 2011

American Congress of Rehabilitation Medicine 2011 - 2014

ITUG volunteer

ITUG Board 2006 - 2008 (Summit Chair / Program Chair 2 yrs)

ITUG Vice-Chairman 2007 - 2008

Connect volunteer

Vice President - 2008



Richard Buckle – Global multi media presence!



Real Time View

Independent opinions and commentary for the HPE NonStop community.

Wednesday, July 11, 2018
It was worth it! NonStop covers the bases with NonStop vendors ...

... all that long since HPE began a program for NonStop's working; with its third symposium, HPE delivered the

Heading out the door for a long drive to California always sees Margo and me leaving with mixed emotions. Yes, we enjoy our time together out on America's highways even as we know it comes from air along with wasted airline



HYBRIDS, HIGHWAYS AND JUST GETTING THERE...



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The Connection

Read it in Print and Online!

Back for More

Richard Buckle, CEO, Pyalla Technologies, LLC.

The English language is rife with expressions and sayings many of which are simply shorthand for how we feel about a person or object. These expressions can range from "Oh, butter!" to "Bathurians!" to something that is best left to be read in other publications. One such expression is "Back for more!" It was the rock group J. Geils Band who sang, "Love stinks!" On the other hand, for followers of the sitcom, Friends, perhaps recall when Monica said it best as she explained how, "Welcome to the real world. It sucks. You're gonna love it!" Oh yeah, Laverne!

For as long as we have been programming NonStop systems as a community we have been "making it real" but shortly after that change. When it comes to front-end computing with NonStop continuing to be the leading proposition, there is a real need to know everything about "what we know" as much as the experienced NonStop programmers focused at considering anything other than writing the OS and its components. It's not that we don't know what we're doing in the real world. We just had to know what was going

2018 bank customer experience summit

SEPTEMBER 12-14 | CHICAGO

#BCXSUMMIT

NonStop Insider

ATMs going, going, already gone?

June 13, 2018 | by Richard Buckle



FINTECH FUTURES

Does Open Banking affect your organisation?

Complete our survey and be among the first to find out how the industry is reacting

NEWS ANALYSIS PUBLICATIONS INTELLIGENCE AWARDS EVENTS JOBS MORE

FINTECH BANKING INSURANCE REGULATORY

On Demand New Age! First Debates
Compliance with Digital Privacy Automation
Central Bank's reaction to changing regulatory requirements

baooqi ACIFIRST

OmniPayments

OmniPayments is a comprehensive architecture by which financial institutions acquire, authenticate, route, switch and authorize transactions across multiple digital channels such as ATM, POS terminals, kiosks, IVRs and the Internet.

It all happened in Palo Alto; OmniPayments capitalized on NonStop!

Innovations continue to come from OmniPayments

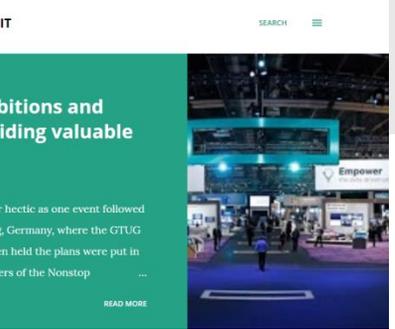
DRNET – THE FABRIC FOR HYBRID IT

Events, Summits, Exhibitions and Symposiums – all providing valuable input for NTI!

The June through July period proved rather hectic as one event followed another. As the team returned from Leipzig, Germany, where the GTUG / European NonStop HotSpot 2018 had been held the plans were put in place to spend time with even more members of the Nonstop

Industry alignment or industry confusion – what is a financial institution?

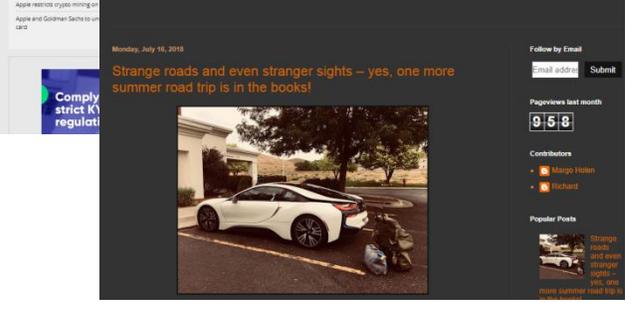
Written by Richard Buckle on 05 Feb 2018



buckle-up

Monday, July 16, 2018

Strange roads and even stranger sights – yes, one more summer road trip is in the books!



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NEWS
Co-op ATM network to offer access
ATM out sweet re
Visa rep books CI
LINK AT

Welcome to NonStop Insider

NonStop Insider is the new home for news, views and updates from the NonStop Community. Optimized for mobile, NonStop Insider lets you read on-the-go and stay fully informed of everything happening in the NonStop universe.

Over the coming months we'll be bringing you insights from professionals at the forefront of HPE NonStop, as well as reviews of cutting edge applications, solutions and projects, plus personal tales and accounts from NonStop users around the world.

To subscribe to NonStop Insider, please click below.

Subscribe

HPDE1, DAY ONE

HPDE DRIVER

Unfortunately, under full course yellow on protocol dictates. The day the white helmet was my instructor, Tom, and I was in HPDE's. It was summer 2006, and after Tom signed a pair of headphones under my helmet, we began conversing, and in no time at all he determined that it was a first for me, and had no idea what to do. Yes, I was a competent driver and yes, I drove the weekly hilly road pretty quickly, but that was not going to help me today. Clearly driving above 100 mph, we completed the first lap of what was only going to be six or seven laps. The quality of instruction such

"HOW MANY FLAG MARSHALS DID I SEE?"

HOW MANY FLAG MARSHALS?

From day one, the takeaways were that track designers really mess with your head and that you were truly lucky. And, oh yes, stay hydrated! For the most part, I was driving a few feet outside the line around the track simply because I was focused on the mandatory download that follows every HPDE session. I was asked "How many flag marshals did I see?" How many what? Flag marshals? On a large track map hung in a wall, what was depicted on the map was almost unrecognizable from behind

of an instructor that first time out is a bit mix of encouragement and chastisement, but through more drills. So much so that the most NACA event seems set for away! On the trip home along the freeway late in the evening, we encountered a newly developed skill. Perhaps the next instruction we received all weekend was substantial awareness. And the biggest lesson learned that first weekend on track! Along with a newfound and sudden need to find a PC, that is, and to register for the very next HPDE event!

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Industry: That's what we do – we push!



Bugatti Chiron ... has a 500 kph speedometer.

“As soon as the 450 kph [280 mph] milestone has been established as the new benchmark, 500 kph [311 m[h] will be the next focus.”

“Humans will continue pushing to go even faster because that’s what we do.”

Wolfgang Dürheimer, former Bugatti
(as reported in Automobile Dec, 2019)

HPE: Data is the key



***Dave Packard who famously said,
“to stay static is to lose ground”***

We see a world where everything is hyper-connected, intelligence and security is built into everything around us, generating data that creates insights and value.

Data is the key – I believe it is the new currency.

To harness the power of all your data, we have been driving a bold vision that the enterprise of the future **will be edge-centric, cloud-enabled and data-driven.**

HPE Discover 2019: Positive Change Through Innovation

JUNE 16, 2019 • BLOG POST • ANTONIO NERI, PRESIDENT & CEO



HPE: Making bigger push in Hybrid IT



A screenshot of a web article on ComputerWeekly.com. The article title is "HPE makes bigger push in hybrid IT". The sub-headline reads: "Enterprise technology supplier HPE has doled out a slew of enhancements to its composable IT portfolio to help enterprises run IT more like cloud service providers". The author is Aaron Tan, TechTarget, and it was published on 26 Nov 2015 at 17:00. The article text states: "Hewlett Packard Enterprise (HPE) is making a bigger push in hybrid IT by adding capabilities to its composable IT portfolio to help enterprises run a combination of workloads on public and private cloud services more efficiently." The page also features a navigation bar with categories like IT Management, Industry Sectors, and Technology Topics, and a search bar. There are also several promotional banners, including one for "CIO Trends #6: The Brexit Edition" and another for "9 Ways to Increase Employee Engagement".

“Our customers want to **innovate faster**, with greater automation and intelligence.

“With our new open hybrid cloud platform, enterprises of all sizes can now **manage, provision and deliver workloads** and apps instantly and continuously to accelerate innovation”

Phil Davis, HPE President for Hybrid IT

NonStop: A strategy embracing data



“Enterprises who are able to instantly extract outcomes from all their data will be unstoppable.”

HPE CEO Antonio Neri

NonStop’s Original Strategy:

migrate to industry standard HW modernize away from proprietary to open SW for the new style of IT

NonStop’s Current Vision:

flexibility (to run everywhere) –
NonStop as a collection of VMs

NonStop ***mission critical data available to all***



NonStop VP & GM MCS: Jeff Kyle (ATUG, 2019)



“We, at NonStop, create data!”



(We have come a long way ...)
2022 everything as a service
And in a few more years,
“everything in Memory”



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Industry: Pace of change is faster!



The pace of today's technology change is faster, more challenging, and farther reaching than ever before.

Digital transformation has reached all areas in every industry ...

HPE Pointnext

NTI: Company delivers on data



34 year old Privately Held Company -

DRNet[®] was the first data replication product to support TMF and non-TMF databases.



Direct Sales and Support!

Customers Worldwide

Development and Support Offices

in USA and Ireland

Pioneered NonStop Data Protection

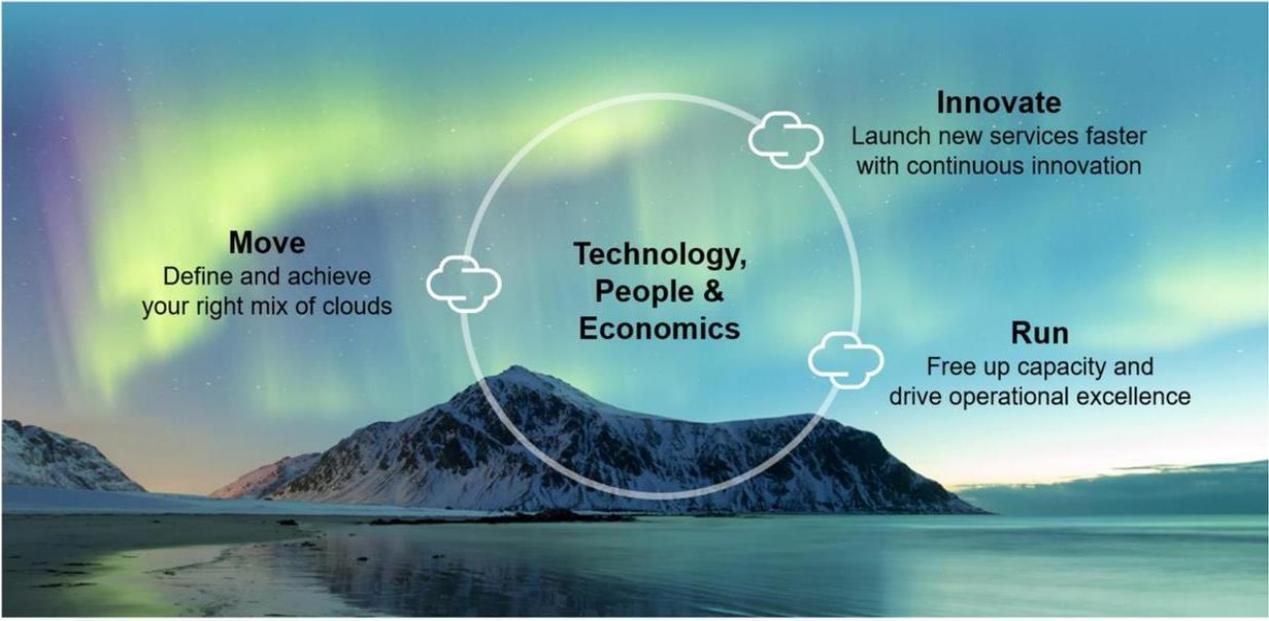
Championed Change Data Capture

Hybrid Cloud? Move it ...



NTI agrees with HPE –

We accelerate every cloud strategy



Data will be ***on the move***

Data will (likely) make it ***to the clouds***

DRNet® – replicating in support of Traditional and Hybrid IT



NTI's core competency

Change Data Capture (CDC) implementation



Moving data with DRNet®

Traditional Approach

e.g. NonStop i to NonStop X

Data Center Hybrid IT Approach

e.g. NonStop X to vNonStop;

NonStop X & vNonStop to Any (JDBC; JSON)

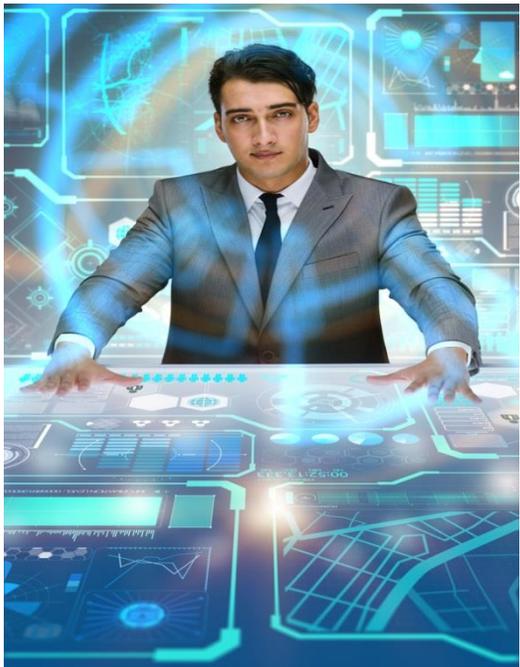
Coming soon ...

e.g. NonStop “Living on the Edge”

DRNet® – why CDC is good!



For replication, the non-intrusive asynchronous mode of CDC offers best approach ...



“Change data capture (CDC) functionality brings replicating databases to a new level in that it **updates target servers with only the data that has changed** in the primary source.”

“The biggest **benefit of log-based change data capture is the asynchronous nature of CDC**: changes are captured independent of the source application performing the changes. **Log-based CDC is generally considered the superior approach** to change data capture that can be applied to all possible scenarios including systems with extremely high transaction volumes.”



“All about the Data!”

Hot Backup, Active-Active, RDF replacement

**Replication, Distribution,
Integration, Transformation**
- to and from NonStop

Feeding NonStop data and metadata to BI!

Non-transactional File Synchronization (FileSync)

Direct Support



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Industry: We are learning fast



The faster you go,

The faster your learn ...

Racing?

A high speed laboratory that creates high-performance cars.

Acura, MotorTrend December, 2019

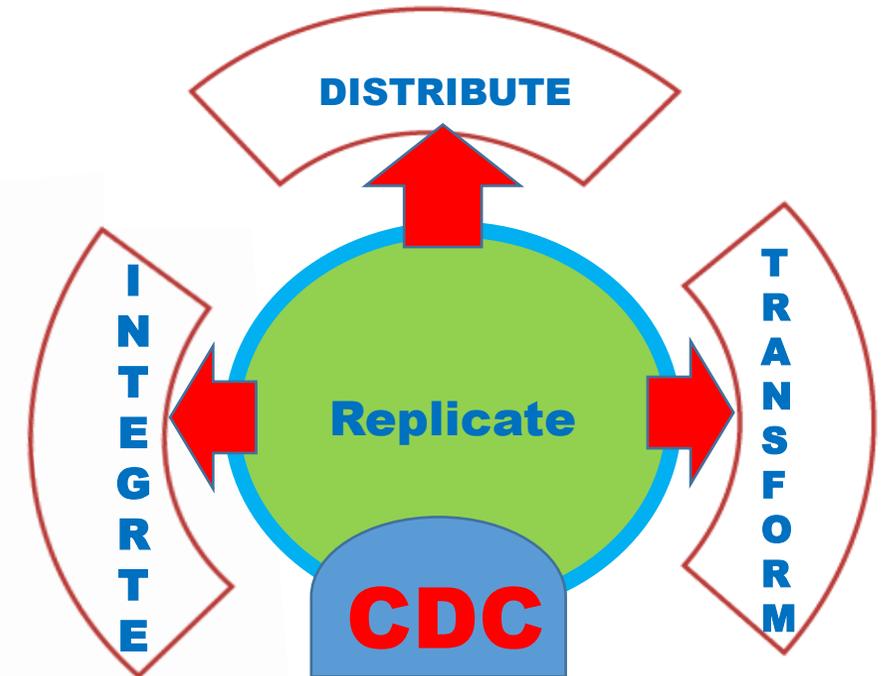
NTI: Bringing what we have learnt to IT



Introducing -



- Replicate** for Business Continuity
- Distribute** for Business Cooperation
- Integrate** for Business Insight
- Transform** for Business Opportunity



What is **PRO Visioning** Excellence in Data



***Just another way of saying -
NTI will get the data
to where it's needed when it's needed while ensuring business continuity***



PRO Visioning means

providing or **making something available**

a measure **taken beforehand to deal with a need** or contingency

the fact or state of **being prepared beforehand**

a particular **requirement in a law, agreement, or document**

Existing Product: Replicate



DRNet® today –

“Any JDBC compliant implementation running on supported open platforms as well as now, any application consuming JSON file formats”

Data Centers are installing comprehensive mixed platform data sharing topologies and NonStop users are part of this topology

DRNet® and DRNet /OPEN® together replicate to any mix of Oracle, MS SQL Server, MYSQL, IBM DB2 Sybase



Replicate: according to Gartner



Gartner®

IT service management company

ORLANDO – Corporate network infrastructure is only going to get more involved over the next two to three years as automation, network challenges and hybrid cloud become more integral to the enterprise.



Network World | OCT 21, 2019

Hybrid IT which includes a mix of data center, SAAS, PAAS, branch offices, edge computing and security services makes it hard to promise enterprise resources will be available or backed-up ... Overly-simplistic IT disaster recovery plans may only deliver partial success.

By 2022, more than 50 percent of enterprise-generated data will be created and processed outside the data center or cloud ... every time data is moved it creates challenges. How does IT manage data-everywhere scenarios?

Replicate: a starting point!



HPE Labs' Chief Architect Kirk Bresniker

“Data used to be the cost. Now it’s the most interesting potential.”



“Therefore like gold, data is a commodity.”

CEO Today, April 4, 2018

“There will always be a need to **replicate data** to ensure disasters of any type don’t take down an enterprise. **But that’s just a starting point.**”

Tim Dunne, NTI Senior Vice President, Worldwide Sales

NTI – overcoming data’s Wild West “frontier days!”

February 22, 2019

Replicate: meeting greater need for data



NonStop Insider May 2018

“Panning for gold, drilling for oil – striking it rich!”

“We all know how expensive downtime can be and how important **replication is to avoiding downtime but almost every NonStop user** is being drawn into discussions concerning better integration of the data found on NonStop.

“...isn't it good to know that the products you **have grown to trust through the years from NTI can also meet your integration needs** just as they have your need to replicate?”



Enhanced Products: Integrate



*DRNet® / Vision ... “extending our proven, leading ,
Change Data Capture (CDC) architecture!”*



Helps you turn silos of machine data into actionable insights for the business

Integrates with any JDBC compliant database

Integrates with any JSON data consumer like Splunk>, ELK and Kafka

Enriches your data and makes it available to the powerful data analytics toolsets.

Integrate: Data to *splunk*>



“There is almost immediate value gained in using *splunk*> to analyze data (originating on) NonStop.” *

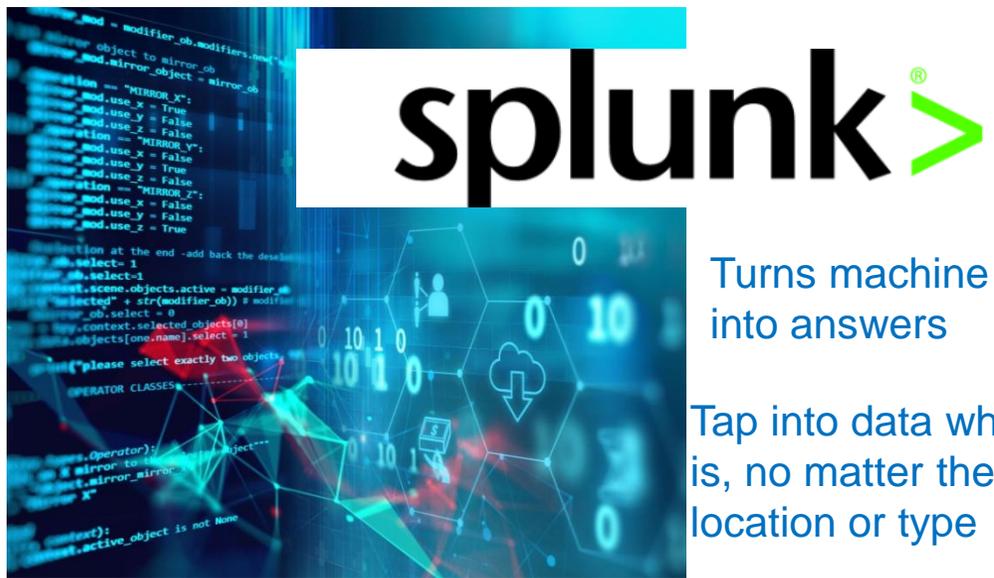
DRNet / Vision® for splunk>
JDBC now, JSON just added (Hadoop, Kafka, etc.)

Replicate Nonstop data and metadata

Co-exist with all major replication solutions

Payment Application Agnostic

Demo and POC available



Turns machine data into answers

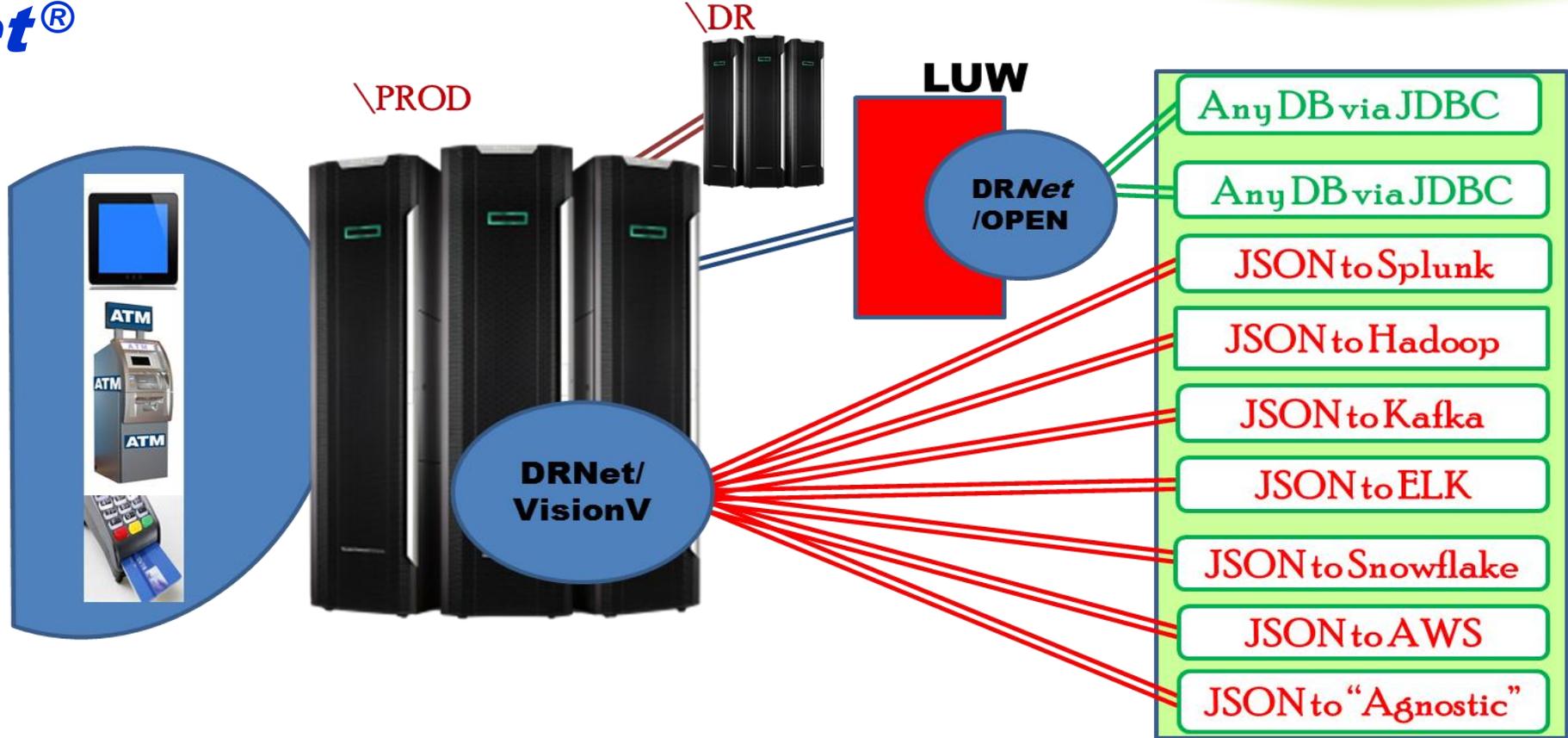
Tap into data wherever it is, no matter the time, location or type

* Tim Dunne, NTI Senior Vice President, Worldwide Sales

Integrate: Data-to-Everything Platform



Comprehensive deployment options for DRNet®



Existing Product: Distribute – new application



***Distribution – everything to the Edge!
... to borrow the old real estate adage, it's all about
location, location, location!***

DRNet[®] distributing from the one to the many at the Edge:

Converged OT and enterprise-class IT in a single, ruggedized system that **implements data center-level compute and management technology** at the edge.

Today, successful organizations must consider a digital foundation that extends to the edge and can **connect across the enterprise—back to the data center and the cloud.**



HPE: Edge to Cloud Products and Services



***The Intelligent Edge is all about “now.”
What is happening “now” with your customers, employees, and assets.***



“Through this new family of products and services we will enable you to **run unmodified enterprise-class applications and services** from the edge so you can make your hybrid IT simple.”

Antonio Neri HPE CEO

HPE: NonStop and the Edgeline 4000?



HPE Discover 2019, Las Vegas



Jeff Kyle, ATUG 2019:

“... technology will be embedded everywhere!”



HPE: NonStop and Synergy?



HPE Synergy combines storage, compute and network equipment combined in one chassis, along with management software



"HPE Synergy's unique built-in software intelligence, auto discovery capabilities and fluid resource pools enable customers to instantly boot up infrastructure ready to run physical, virtual and containerized applications."

HPE: Synergy and VMware?

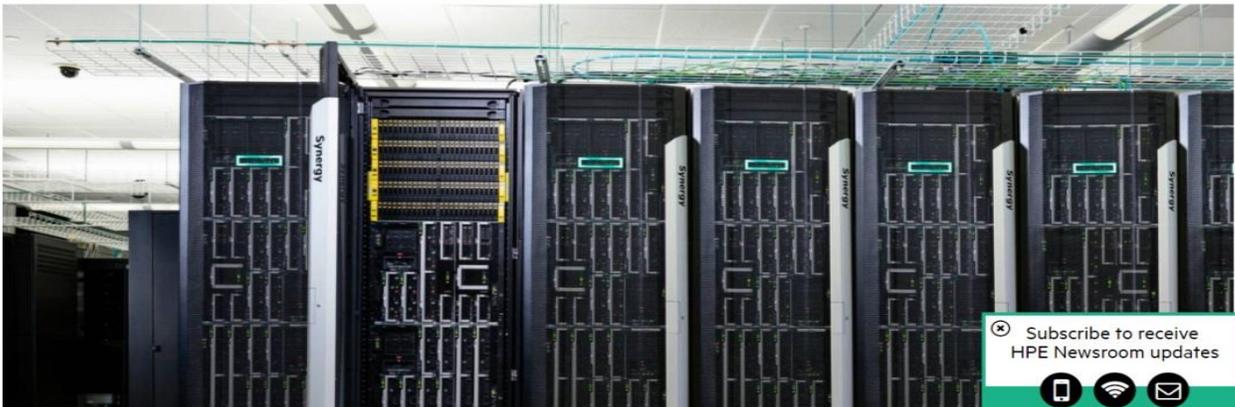


HPE Synergy with VMware Cloud Foundation will enable IT to deploy IaaS in minutes and lower VM costs compared to public clouds

NEWSROOM PRESS HUB ▾ ABOUT ▾ BLOG CONTACT

HPE to Deliver the Industry's First Composable Infrastructure for VMware Private Clouds

AUGUST 29, 2017 • PRESS RELEASE: CLOUD, COMPOSABLE INFRASTRUCTURE, HPE SYNERGY, IT INFRASTRUCTURE, VMWARE



Subscribe to receive HPE Newsroom updates

☑️ 📱 📶 ✉️

The image shows a screenshot of an HPE Newsroom article. At the top, there is a navigation bar with 'NEWSROOM' and several menu items. Below that is a search bar. The main headline reads 'HPE to Deliver the Industry's First Composable Infrastructure for VMware Private Clouds'. Underneath the headline is a date and a list of tags. The central part of the image is a photograph of a server room with several racks of HPE Synergy servers. A subscription pop-up is visible in the bottom right corner of the image area.

HPE Synergy with VMware Cloud Foundation will enable single-click deployment of traditional and private cloud workloads and allow infrastructure to be dynamically reallocated in minutes

HPE: XaaS



HPE boldly pivoting headlong into post-transactional market ...

“Larger enterprise customers continue to go as-a-service, but also have on-premises ... We will have right-sized offerings for midmarket and the lower end of the enterprise. Large enterprises have access to data centers, but smaller companies don’t,” said Paul Davis, president of HPE’s hybrid IT business and chief sales officer.



HPE Going Everything-as-a-Service by 2022

JUNE 19, 2019

Hardware vendor touts fast-growing GreenLake services program and channel as catalyst for transition

Channelnomics Staff

Hewlett-Packard Enterprise (HPE) upped the ante on its traditional hardware competitors and cloud rivals by announcing it will transition to an Everything-as-a-Service sales model by 2022, building off the success of its fast-growing GreenLake program. The transition will change the way HPE’s direct and channel partners work with customers while creating persistent recurring revenue for all parties in the go-to-market chain.

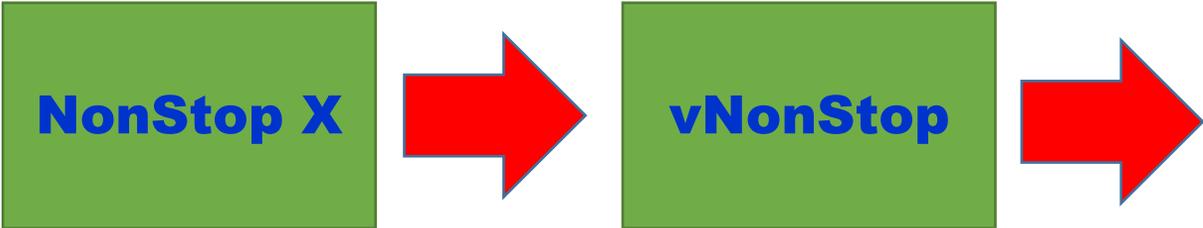
XaaS is the next logical step in go-to-market evolution for hardware vendors.

Analysts agree that HPE has a distinct advantage over rivals that are slowly transitioning to [XaaS](#) because of its large ecosystem of reseller and integrator partners that are capable of linking multiple products to its on-premises and hybrid products to create holistic systems.

New Product: Transform



What if NonStop takes off – will your partner be ready too?



- HPE Edgeline** Intelligent Edge
- HPE Synergy** Composable
- HPE GreenLake** Private Cloud – Consumption-based pricing

NonStop validated; not as yet productized for everything!

Within Pointnext: Is HPE IT a model?

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Industry: Innovators at heart



What sets us apart? **Our people.**

Our people's relentless commitment to partner, innovate, and act.

HPE Career Promotion, 2019

NTI: Taking the lead with “as-a-Service!”



Going Pro?

It means coming to your aid as the industry transforms to Hybrid IT!

It means giving you more ways to consume DRNet®!



vNSaaS

First Partner to order multiple vNonStops

Investing/Building backbone

Developing Go-To-Market Strategy

Variable capacity licensing

Soliciting feedback

Leveraging the PRO in PRO *Visioning*



Going Pro?

It means turning to those who have experience and no vendor knows CDC better than NTI!

Expanding Global Presence

Significant focus on 'reach'

Developing new channel

Regional Sales and Support

Considering complementary solutions



Questions?



Thank you!