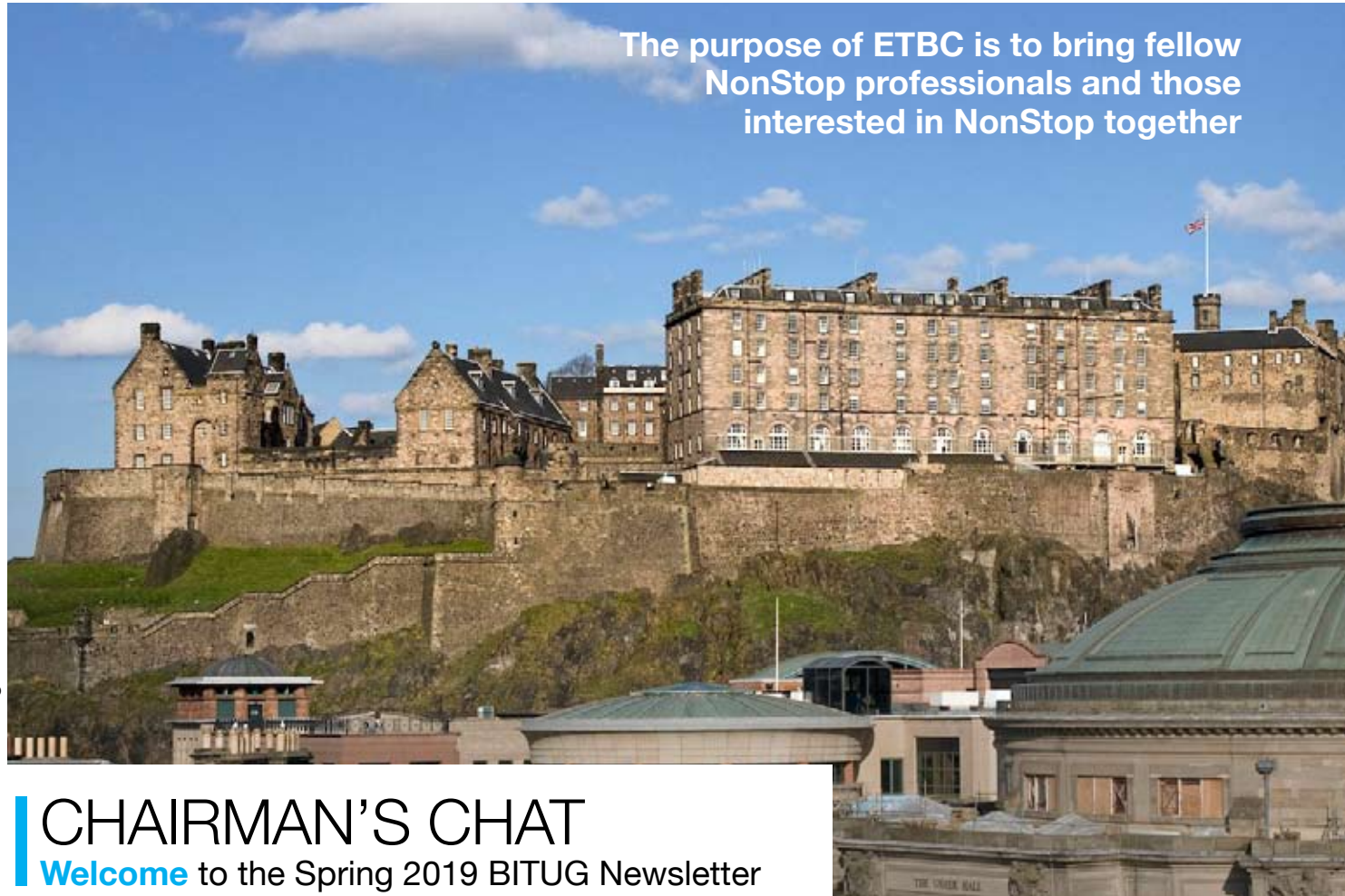# BITUG SPRING 2019

NEWSLETTER

The purpose of ETBC is to bring fellow NonStop professionals and those interested in NonStop together

Edinburgh Castle

CHAIRMAN'S CHAT
Welcome to the Spring 2019 BITUG Newsletter

Spring 2019 is here - well, not quite in Scotland but hopefully on it's way soon - and BITUG is proud to be hosting this year the first annual European NonStop Technical Boot Camp (ETBC) in my (near) home city of Edinburgh between May 13-15. The last time BITUG hosted a large conference was the eBITUG held in London in 2017. That was a great success and feedback from all was extremely positive and was of course helped by CSP's evening at The Shard, so we have a lot to live up to. However, Edinburgh is a fascinating city full of old architecture and Scottish charm. It's the inspiration for JK Rowling's Harry Potter books and for good reason. Together, the BITUG committee have put together a great event. It encompasses two full days of user, HPE and vendor presentations, Keynotes and networking with your fellow Nonstoppers. We kick it off with a long-standing NonStop tradition – the Beer Bust – on the Monday evening at the BrewDog Pub next door to Sheraton Hotel, the venue for the

event. After a busy day of presentations on Tuesday we invite you to join us for a Taste of Scotland Gala Dinner at The Hub just next to Edinburgh Castle. A fun-filled evening of great food, wine and entertainment in true Scottish style (kilts not compulsory, but welcomed!)

We are also excited to announce our Keynote speaker for Tuesday, Mr Justin Wren. He's a very successful ex-MMA fighter who suffered depression and addiction early in his career but turned this around and ended up in The Congo where he brought hope and life to some 1,500 desperate forgotten people. Come and hear his inspirational story – Fight for the Forgotten – and purchase a signed copy of his book too.

None of this would be possible without the financial backing of our vendor sponsors of course, including HPE Corporate and Intel, so thanks in particular to them.

You definitely don't want to miss this! Early Bird pricing of a very modest (£150) attendance fee runs out in a few days,

then is still a very reasonable £250 for an attendance pass, which includes all the evening entertainment. Go to our website for more details at:
www.bitug.com/etbc-2019

Of course, the main purpose of all Boot Camps is to bring fellow NonStop professionals and those interested in NonStop together to network with their peers, hear latest news from vendors and HPE as well as to learn what other users are doing with their NonStop platforms. That's the whole purpose of BITUG, too – to create a forum where like-minded NonStop people can network and interact with one another. We exist for you, the user community, so we welcome all feedback and suggestions for future SIGs or events. Please email me personally at Collin.Yates @ bitug.com.

Hope to welcome you in Edinburgh next month!

Collin Yates
Technical Director, *TCM Solutions Ltd.*
2019 BITUG Chairman

ETBC NEWS

DATE:
13-15th May 2019

VENUE:
The Sheraton Grand Hotel, Edinburgh, Scotland

REGISTRATION LINK:
www.bitug.com/tickets

With just a month to go until BITUG presents the first annual European NonStop Technical Boot Camp, we're just completing the last few pieces of the planning puzzle.

Once you've paid to register you'll be directed to a registration information page - please ensure you complete this important second part of the registration process as it provides BITUG will essential attendee information not collected during the purchase process.

When you arrive at the Sheraton you can collect your conference badge and event access wrist band from the BITUG desk (located bottom right on the floor plan).

Traditionally, we've used the last BITUG Newsletter before a big event to publish the agenda and speaker information so that it can be used as an event programme. This year we've gone 100% digital, thanks to Connect and the Whova app.

Both the BITUG website (which has a Whova feed) and the ETBC event on the Whova app will give you all the event information you'll need, from agenda, to session overviews, locations and speaker bios to other important information such as when and where the networking events are being held! It saves trees and it's

updated in real time - what's not to like?!

If you've not used Whova before, you can find it in your usual app store. Once you've downloaded it and created your profile, you click your profile in the top left and select "Go To All My Events". Search for ETBC and our event should be the only result. Select ETBC and then use the code "etbc2019" to gain access.

It's well worth setting it up now rather than waiting for the event, because it's already packed with info and there is plenty of interaction to familiarise yourself with.

NUWAVE NEWS

INTEGRATING NONSTOP APPLICATIONS WITH MISSION CRITICAL DISTRIBUTED LEDGED TECHNOLOGY (MC DLT)

HPE have been promoting the benefits of various blockchain and distributed ledger solutions over the last couple of years, and rightly so. HPE's partnership with R3 has brought us Mission Critical Distributed Ledger Technology (MC DLT) in the form of the R3 Corda solution optimized for NonStop. This, and other DLT applications such as Ethereum, offer some excellent options for customers wishing to deploy new blockchain-type solutions on NonStop.

MC DLT, based on R3 Corda, provides application developers with a secure, reliable, and relatively simple platform to develop new solutions - facilitating transaction processing in environments where parties may not be fully known or "trusted"; smart contracts for supply-chain and other usages, and many other potential applications. But how do you integrate your existing NonStop applications with the new blockchain/DLT environment?

A REST-based approach allows this integration quickly, and simply. REST is by far the most popular architectural style in use on the web today, so it's no surprise that it's a good fit for DLT integration. Corda, and other DLT solutions, can be REST-enabled easily, and from there it's a small step to allow existing NonStop applications to access them. See nuwavetech.com/MCDLT for more information.

EVENTS CALENDAR

BITUG PRESENTS THE EUROPEAN NONSTOP TECHNICAL BOOT CAMP 2019

DATES: 13-15th May 2019
VENUE: Sheraton Grand Hotel, 1 Festival Square, Edinburgh EH3 9SR

Further information: www.bitug.com/etbc-2019

CONNECT PRESENTS THE NONSTOP TECHNICAL BOOT CAMP

DATES: 3-6 Nov 2019
VENUE: Hyatt Regency, San Fransisco Airport, California, USA

Further information: www.connect-community.org/nonstop/

This event was previously advertised as being from 11-13th November, so please update your diaries.

CAIL NEWS

WHY NONSTOP SHOULD BE THE PLATFORM OF CHOICE IN AN ON-LINE, REAL-TIME, ALL-THE-TIME WORLD

By Ronald Thompson, CEO, Cail

Business is about setting and achieving objectives. While easily articulated, the devil is in the details - including providing services having high value, stickiness with Users, availability and performance, complying with regulations / privacy / security policies, quickly scaling on new information services getting traction in the market, innovating for impact to increase relevance and revenue as well as to expand business opportunities, prudently managing change to mitigate risk, etc. While challenging, satisfying these requirements creates opportunity - providing we can articulate a very compelling NonStop value proposition - from a technical and business perspective.

For example, in a business context, the more demanding and important an application, the greater the NonStop relevance and appeal. While this typically is a new application or opportunity, it can also be a current application that has become critical to the business.

To explain, current applications that now operate on-line, real-time, all-the-time are better suited for a platform designed for this environment. Increasing the importance of this is aligning applications and platforms to enable organizations better monetize value creation, increase and expand revenue streams, deliver competitive advantage, reduce costs, meet rising User expectations, evolve their business model, etc. This is important for an enterprise to increase their market share, grow current markets, and successfully enter new markets - by expanding business capabilities, increasing opportunities and relevance, as well as mitigating being marginalized by competitors, from paradigm shifts, digital disruption, etc.

Since these are huge concerns of Executives, the objective is for NonStop to be part of the solution to improve business outcomes and reduce the risks associated with change.

This achieved by positioning organizations for success with NonStop as a proven platform:

A. for On-Line, Real-Time, All-the-Time information services - to expand digital capabilities and revenues while improving business efficiencies and reducing costs.

B. to be a more agile, responsive and entrepreneurial enterprise - that can readily scale and deliver a great User Experience.

C. that mitigates technology and business risk - with unique system and security protection.

D. with a low cost of ownership - with minimum resource and manageability requirements.

For more insights, please visit:
Expanding NonStop Opportunities and enterprises - https://www.cail.com/AASP/
Improving Business Outcomes with NonStop - https://cail.com/ibon/
by Aligning Applications and Platforms - https://tinyurl.com/y259d25d

Given the importance of leveraging current information services for advantage, increasing IT value to the organization, and contributing to business success - please contact HPE or CAIL to realize the significant benefits with NonStop.

To learn more, looking forward to seeing you at the upcoming BITUG / ETBC in May where CAIL is presenting on Expanding NonStop Opportunities.

CAIL - info@cail.com - www.cail.com

GRAVIC NEWS

USING DATA REPLICATION TO OFFLOAD ONLINE HOST PROCESSING AND ENABLE NEW BUSINESS APPLICATIONS

Gravic recently published an article: Using Data Replication to Offload Online Host Processing and Enable New Business Applications. The current data in online transaction processing systems is some of the most valuable. If this data is trapped in that system, and not available to enable other real-time business intelligence processes, then its full value is not being exploited, and competitive opportunities are missed. To avoid these missed opportunities, companies need to access their online data in real-time – as the online system is processing transactions – which can significantly impact the throughput and response times of that system. This article discusses such a situation, and the clever way it was resolved using data replication. Think about where you have valuable, yet isolated, data. How would you use data replication to unlock this value for competitive advantage and to build new solutions for your business? To speak with us about your data replication and data integration needs, please contact us.

XYGATE SecurityOne

Security Intelligence & Analytics Platform for HPE NonStop and Beyond...

XYPRO NEWS

RISK MANAGEMENT IN THE REAL WORLD: TODAY, TOMORROW AND BEYOND

XYPRO Chief Product Officer and CISO, Steve Tcherchian looks at the Cybersecurity world now and in the future.

With the HPE NonStop sitting at the heart of many mission critical environments it is vitally important that it is adequately protected.

2018 was another year of data breach on a large scale and saw the rise of more and more regulation. Since May 2018 GDPR has been in force and we have already seen 60,000 reported incidents.

In 2019 the challenges of criminals, regulation, virtualization and automation mean that protecting data is even more complex.

Go to the link below to get some insight into the future of Cybersecurity.

https://www.xypro.com/xypro-technology/risk-management-in-the-real-world-today-tomorrow-and-beyond/

XYPRO

Stop a Breach Before it Hurts

HPE NONSTOP NEWS

NSDA

HPE NonStop Enterprise Division (NED) is pleased to announce the general availability of HPE NonStop Database Analyser (NSDA) as a new product on our NonStop portfolio. NSDA offers a new way to analyse, correlate, and visualize your SQL/MX data workload, in real time. With NSDA users can immediately identify what resources are engaged in servicing the database workload and make a more efficient use of them. Business oriented metrics allow for a wider range of users to gain visibility and control of the information that matters to them without requiring specific database knowledge.

NSDA 1.0 introduces a number of graphical features such as dashboards, heat maps, query lists, "top n" workloads, and health check refreshed with real time data. Most graphical representations allow to drill down to a unique query workload with just a couple clicks. Query statistics and plans are immediately available for any given query. The user can zoom in or out a period of time in a few seconds by just moving a slider on a timeline that can range from a few minutes to months.

HPE NSDA 1.0 can capture queries executed via the HPE NonStop SQL/MX Connectivity Services (MXCS) interface. HPE NonStop SQL/MX DBS (Database Services) is supported. HPE SQL/MP tables accessed from the SQL/MX engine are also supported.

NSDC

HPE NonStop Enterprise Division (NED) is pleased to announce that NonStop Dynamic Capacity (NSDC), introduced with virtualized NonStop X earlier in 2018, is now supported on HPE Integrity NonStop X high end (NS7) systems. NSDC is a new licensing model offered on HPE NonStop L-series systems.

Using NSDC, 2 additional cores per CPU can be activated on a NonStop system for a short duration (days) to handle workload spikes and later brought back to its normal configuration. Accordingly, a 2-core NonStop system can temporarily scale up to become a 4-core system or a 4-core NonStop system can temporarily scale up to become a 6-core system. NSDC is an add on licensing model, to be used on top of the regular NonStop system licensing model.

NSJ 8 U4

HPE NonStop Enterprise Division (NED) is pleased to announce the General Availability of Ported Binaries on HPE Integrity NonStop Servers, Java SE 8 Update 4 (referred in short as NSJ 8 U4) for HPE Integrity Converged NonStop X, HPE Virtualized NonStop X and HPE Virtualized Converged NonStop X Systems.

SQL/MX Dialect for Hibernate Version 5.2.12 is generally available
HPE NonStop Enterprise Division (NED) is pleased to announce the General

Availability of Hibernate dialect for version 5.2.12 on HPE Integrity Converged NonStop X, Virtualized NonStop X and Virtualized Converged NonStop X systems. Hibernate is an Object-Relational Mapping (ORM) framework that simplifies the development of JDBC application code dealing with database interactions. It provides database abstraction that enables an application to work seamlessly across various databases that expose standard JDBC interfaces. It provides query facilities and application programming interfaces (APIs) to generate the SQL calls necessary to execute Create, Read, Update, and Delete operations on databases.

New SPML and HPML versions are available

The NonStop Software Products Maintenance List (SPML) and NonStop Hardware Product Maintenance List (HPML) are the documents provided by HPE to notify customers of the support level for NonStop software and NonStop hardware products respectively.
New versions of the SPML and HPML that are effective from November 2018 are now available for download from the NonStop eServices Portal at https://h22204.www2.hpe.com/NEP - "Product Lifecycle Information".

A new NonStop video has been created that can be viewed here: https://vimeo.com/jupiterproductions/review/299306267/e05adadd66

CSP NEWS

ENSURE COMPLIANCE WITH MULTI-FACTOR AUTHENTICATION

Multi-factor authentication (MFA) is a security measure that requires two or more methods of authentication, from independent categories of credentials, to verify a user's identity for a login or other transaction.

In other words, multi-factor authentication verifies that the person attempting to perform a transaction is who they say they are, by requiring two or more pieces of evidence (factors) to an authentication request. These factors can be categorized into the following:

• **Possession** - Something only the user has, e.g. token

• **Inherence** - Something only the user is, e.g. fingerprint/biometrics

• **Knowledge** - Something only the user knows, e.g. password

The authentication mechanisms used for MFA should be independent of one another such that access to one factor does not grant access to any other factor, and the compromise of any one factor does not affect the integrity or confidentiality of any other factor.

What does PCI say about Multi-Factor Authentication?

One of the key changes to PCI DSS is an update to requirement 8.3, which now calls for organizations to strengthen their access security with MFA instead of the previously stated two-factor authentication. By changing the terminology of requirement 8.3, two forms of authentication are now the minimum requirement.

As detailed in PCI DSS version 3.2, any individuals with non-console administrative access to Cardholder Data Environment (CDE) must authenticate using MFA. "Non-console administrative access" means that the system is accessed over a network, as opposed to the system's local screen and keyboard. This applies regardless of whether the individual is an employee or third-party IT support personnel.

Multi-Factor Authentication on Nonstop Made Easy with CSP AUTHENTICATOR+™

Multi-factor authentication has become vital in ensuring secure access to systems. It provides superior safety measures over easily compromised single password methods and is also an important requirements to comply with regulations such as PCI 8.3 and GDPR.

Read the full article via the BITUG website: https://www.bitug.com/s/CSP-BITUG-Article-Spring-2019.pdf

BITUG COMMITTEE

Chairman
Collin Yates
TCM Solutions

Vice Chairman
Neil Barnes
Lloyds Banking Group

Treasurer
Iain Liston-Brown
HPE

Vendor Liason
Collin Yates
TCM Solutions

HPE Liaison
Iain Liston-Brown
HPE

Membership Database
Paul Brown
Lloyds Banking Group

SIG Coordinators
Damian Ward
Vocalink-Mastercard

Kevin Poultney
Brightstrand International

Robert Waldron
Barclays

John Bycroft
Comforte

Contact details available at: www.bitug.com/the-bitug-committee/

CSP Authenticator +

Multi-Factor Authentication for NonStop Systems

NONSTOP... FOR 26.2 MILES!

HELP A FELLOW BITUG MEMBER REACH HIS LONDON MARATHON FUND-RAISING TARGET

Dan Lewis was on the BITUG Committee for five years from early 2013. He stepped down at the end of last year after his four-year-old son was diagnosed with an extremely rare and life-limiting brain condition.

During his five years as a Committee Member, Dan contributed countless hours to BITUG covering many aspects, from building the website to helping create BITUG events and newsletters.

Now he's asking the BITUG community if it can spare some money to help him reach his charity fund-raising target for his participation in this year's London Marathon on 28th April.

He's raising money for two great causes: Evelina London Children's Hospital and Demelza Children's Hospice.

He's already raised over £2,500 and would really appreciate any help to get him closer to (or even past!) his £3,500 target.

If you or your company would like to contribute please visit: https://uk.virginmoneygiving.com/Run4Rish

Below: Dan (of 4tech Software) completed a ten mile run in February this year as part of his London Marathon training - if you're watching it on TV, look out for number 36182!

IBM i

We extend your IBM i investment so you can take advantage of the latest innovations in cloud, mobile, analytics, and more.

Rocket®

🌐 info.rocketsoftware.com/we-love-IBMi.html

✉ info@rocketsoftware.com

📞 0800 520 0439