



# STAC® Performance Summit

October 14, 2010

Deutsche Bank  
60 Wall Street, New York

## Gold Sponsors:



## AGENDA

Welcome [\[slides/video\]](#)

Bob Heuman, Director, Deutsche Bank  
Peter Lankford, Founder/Director, STAC

## Panel Discussion: Co-location and connectivity for the new world of trading

Fast communication between venues and trading firms remains an industry priority. How will regulation, competition, and innovation affect how providers and end users approach this challenge? [\[video\]](#)



### **Ken Barnes, General Manager, SFTI & Colocation Americas, NYSE Technologies**

Ken is responsible for the Secure Financial Transaction Infrastructure® (SFTI®) network connectivity and colocation business in the Americas. In that role he is responsible for revenue growth and product development for the SFTI network, a high performance network designed to carry counterparty order flow and market data with market leading performance and reliability, and the company's colocation assets in the greater NYC and Chicago areas. This includes the company's new 400,000 sq ft US Liquidity Center which houses the company's 5 US equities and options exchanges together with thousands of customer trading servers. After spending 12 years in business roles at Reuters, Bridge, NextSet Software and Salomon Brothers, Ken joined Wombat in 2005. As head of Business & Planning, he helped the company quintuple revenue in 2 years and launch its high-performance middleware and hosted market data product lines, positioning the firm for acquisition by NYSE in 2008.



### **Scott Caudell, Senior Vice President Global Architecture, Interactive Data 7ticks.**

Scott was a founding member of 7ticks, which was established in 2002. He designed and built 7ticks' highly-scalable, carrier grade network infrastructure to provide one of the fastest and most reliable trading experiences for users on a variety of proprietary and third-party ISV trading solutions. He has overseen the growth of this design to handle a significant percentage of overall daily trading volumes on exchanges such as the CME and ICE. Scott has also had a visionary role in creating proximity networks to support ultra-low latency access and cross-connectivity between leading world exchanges.



### **Brennan Carley, SVP Product Management and Marketing, Spread Networks.**

Brennan has extensive strategic and operational experience at leading financial technology and telecommunications firms, including Radianz which he founded, Instinet, Reuters, NYFIX, IBM, Yipes, and Marketcetera. Brennan has advised companies and served as an executive with both operating and strategic responsibility. He has worked closely with many leading venture capital and private equity firms, as an executive in portfolio companies, as an independent board member of portfolio companies, and in an independent advisory capacity. Brennan is a Magna Cum Laude graduate of New York University, with a degree in Economics.



### **Donal Byrne, CEO, Corvil.**

Donal has over 20 years' experience working in the field of computer systems, networking and telecommunications. His most recent interest is in mathematical and algorithmic-based solutions for low-latency management and optimization of high frequency electronic trading infrastructure. Donal joined Corvil in 2000 as the non-executive Chairman and in 2002, he took on the role of Chief Executive with a view to building a successful multinational software company for the Financial Services sector. In 2004, Donal was selected by the World Economic Forum as a Technology Pioneer for his work with Corvil, and in 2005 he was named in the Top 10 Emerging Technology Companies in the Ernst and Young, Entrepreneur Of The Year. Donal has numerous publications and patents in the field of network communications.



### **Wil Tirado, VP of Network and Infrastructure Services, CFN Services.**

At CFN Services, Wil leads the technical design, network implementation and deployment of private networks in the US and internationally (Canada, UK, Germany, Japan and Brazil.) Prior to joining CFN Services, Wil held architecture and engineering positions involving both RF and optical networking at Procellux, FiberTower, XO Communications and Verizon. Wil has an MBA from Babson College and a BSEE from the University of Massachusetts at Amherst.

Innovation Roundup – Round 1	<i>Each presenter has 5 minutes.</i>
<ul style="list-style-type: none"> <li>• “Deploying and Qualifying Next Generation Low Latency Networks” <a href="#">[slides/video]</a></li> </ul>	<b>Taylor Justice and Scott Kenik</b> , Financial Vertical Sales Team, JDSU
<ul style="list-style-type: none"> <li>• “Engineering Low-Latency Optical Transmission” <a href="#">[slides/video]</a></li> </ul>	<b>Peter Brucia</b> , Director of Sales, Infinera
<ul style="list-style-type: none"> <li>• "Precise Time Synchronization (and how to measure it)" <a href="#">[slides/video]</a></li> </ul>	<b>Paul Skoog</b> , Product Marketing Manager, Symmetricom
<ul style="list-style-type: none"> <li>• " Spectracom Delivers New Microsecond Timing Products for High Speed Financial Trading" <a href="#">[slides/video]</a></li> </ul>	<b>John Fischer</b> , Chief Technology Officer, Spectracom

### Panel Discussion: Compute strategies for challenging workloads

*End-user firms are on a constant mission to increase the speed of compute-intensive workloads, from low-latency arbitrage to intra-day risk management and derivatives pricing. What are the most important architectural trends for these workloads? Are the compute strategies for pre-trade and post-trade workloads getting more similar or more different? What's changing in how firms are using multicore, grid, data affinity, GPU, and FPGA technologies?* [\[video\]](#)



**Lee Fisher, Worldwide FSI-HPC Business Development, Hewlett-Packard**

Lee is Worldwide Business Development manager for HP’s scalable, high performance solutions in Financial Services. He is focused on developing and communicating HP’s solutions in the areas of low latency market data/HFT/exchanges, compute-intensive quantitative analytics, and scale-out enterprise datacenters for FSI. He helps HP regional teams and customers understand HP’s value-added systems, optimized for performance and often integrated with hardware, middleware, and application components from HP partners for production-worthy, deployable solutions. He brings demanding customer requirements back to HP product engineering divisions to ensure future products meet evolving needs. Lee joined HP in 1996 and served as HP’s Business and Alliances manager for the Computer-Aided Engineering industry for over a decade before turning his HPC focus to FSI. Lee has a Sc.B. in Engineering from Brown University, a Sc.M. in Management from Massachusetts Institute of Technology, and over 25 years of industrial experience in manufacturing, software engineering, product marketing, alliance management, and technical sales.



**Bob Zak, Senior Platform Architect, Data Center Group, Intel.**

Bob has been at Intel since 2006. In addition to his work on multicomputer architectures, memory hierarchies, and interconnect technologies, Bob focuses on computing infrastructure for FSI applications. Before Intel, Bob worked at Sun Microsystems as a Distinguished Engineer and system architect for enterprise servers.



**Adam Vajda, Senior Systems Engineer/Architect, FSI, Platform Computing**

Adam Vajda is a senior member of the Financial Services team at Platform Computing in New York City. Over the past five years, Mr. Vajda has focused on computational analytics and infrastructure in large Sell-side and Buy-side firms. He has co-authored papers in computational science and is well versed in a wide range of HPC technologies from compute grids to GPUs to data grids. Mr. Vajda holds a degree in Computer Science and Astrophysics from the University of Western Ontario, Canada. In addition to technology, his interest includes media, economics, and music.

Innovation Roundup – Round 2	<i>Each presenter has 5 minutes.</i>
<ul style="list-style-type: none"> <li>• “Network driver tuning for financial services configurations” <a href="#">[slides/video]</a></li> </ul>	<b>Allen Light</b> , Director, Product Management, Broadcom
<ul style="list-style-type: none"> <li>• “New Features for Application Acceleration and Enhanced Performance in Solarflare's OpenOnload<sup>®</sup>” <a href="#">[slides/video]</a></li> </ul>	<b>Dr. David Riddoch</b> , Chief Software Architect, SolarFlare
<ul style="list-style-type: none"> <li>• “Comprehensive Approaches to Accelerating Electronic Trading Applications” <a href="#">[slides/video]</a></li> </ul>	<b>Oleg Lukyanov</b> , Senior Solutions Architect, Voltaire
<ul style="list-style-type: none"> <li>• “Scaling and Accelerating the Messaging Layer with 10 Gigabit Ethernet” <a href="#">[slides/video]</a></li> </ul>	<b>Mark Berly</b> , Senior Systems Engineer, Arista Networks

<b>Cocktails (~2 hours)</b>
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