

ISC17, June – Frankfurt am Main/Germany

IBM Single Client Briefings

Please note: All sessions are 45 minutes in length. If you require a one-hour briefing on a topic, please request the same topic twice within an hour time slot.

For NDA Session, attendees will need to bring signed non-disclosure agreement with them or sign non-disclosure agreement at the door.

Cross-Brand

S01 - IBM Solutions for HPC and Technical Computing - Strategy and Direction - Abstract:

HPC is changing. Existing HPC sites are adapting to new mandates & classes of users, to computational and architectural change. New sites are applying HPC architectures and algorithms towards broader workloads or adopting HPC for the first time. Like the industry, IBM HPC solutions are evolving as well: to adapt to, anticipate, and foreshadow these needs.

Join our session to learn the latest about the comprehensive IBM HPC portfolio, including solution updates, strategy and directions—as well as taking a high-level look at the machine learning & deep learning roadmap. Some of the key areas to be highlighted include: IBM POWER™ processors, IBM Power Systems Compute Nodes, the IBM HPC Software stack, IBM Spectrum Computing software, PowerAI, IBM Spectrum Scale (formerly GPFS) and Elastic Storage Server. We will also discuss the storage portfolio including HPSS, Tape System and Flash Technologies, and how these can be integrated into a complete HPC solution.

Feel free to request a brief overview of all these session topics or to specify the topics where you wish the most emphasis.

We encourage registrants to couple this briefing in a program with other deep dives.

Classification:NDA-Briefing

Owner: Brett Newman, Henry Brandt

Hardware side (1 of): Henry Brandt, Donald Grice, Klaus Gottschalk

Software side (1 of): Nick Werstiuk, Bill McMillan, Theodore Hoover, Michael Spriggs

Healthcare and Genomics HPC Solutions

S02

New Advances in IBM Genomics Solutions

Abstract: IBM has teamed with the Broad Institute to significantly speed up The Genome Analysis Toolkit (GATK) Best Practices workflow on IBM Power Systems along with IBM Spectrum LSF and IBM Spectrum Scale Storage.

GATK workflows can take advantage of the simultaneous multithreading (SMT) feature of the IBM Power 8 systems to achieve stunning results on both the GATK workflow as well as on Mutect and Pindel. We will also discuss a CAPI enabled FPGA card for IBM Power 8 servers that provides up to 100x acceleration of GZIP compression and decompression.

Classification : Non-NDA Briefing

Owner : Denise Ruffner

Speakers: Denise Ruffner, Kathy Tzeng

S03

RowAnalytics Synomics Studio

Abstract: Understanding the factors driving outcomes in complex, chronic diseases and using them to accurately stratify patients is a challenging but essential capability for the delivery of precision medicine. Metabolic processes are highly interrelated and diseases are often heterogeneous and polygenic, driven by combinations of several genomic features (SNPs), phenotypic and clinical factors which together lead to the observed outcome.

Synomics Studio massively accelerates these multi-factor GWAS analyses, taking advantage of the speed of the IBM Power Systems 822LC for high performance computing, which couples two high performance POWER8 with NVLink CPUs with four NVIDIA Tesla P100 GPU accelerators connected via the NVLink high-speed interface to achieve rapid results. Basic GWAS analyses (mining + validation by full permutation scans) can now be completed in near real time, and major studies with up to 20 genes interacting in combination can be run in days on a single IBM Power Systems 822LC server.

Learn about RowAnalytics recent results on a study of a population of 15,000 people with BRCA1/2 mutations at <http://precision.life>.

Classification : Non-NDA Briefing

Owner : Denise Ruffner

Speakers: Denise Ruffner, Steve Gardner, CEO, Row Analytics

S04

Introduction to Bluebee High Performance Genomics Solutions

Abstract: Bluebee offers a robust and scalable genomics analysis platform that facilitates fast and affordable data processing. Using Bluebee you can link your sequencers directly to either on-premise or private cloud-based supercomputing clusters that allow you to substantially reduce cost, complexity and throughput time of your genomics data analysis. Our solution allows you use pre-configured reference pipelines, or create your own pipelines and through a convenient web portal. With each project, you can define permission-based data sharing and enable collaboration, both internally and cross-organization. The Bluebee system provides clinical grade security for your data.

Classification : Non-NDA Briefing

Owner / Speaker: Denise Ruffner

Software Defined Infrastructure

S05 – IBM Software Defined Infrastructure: End-to-end software solutions

Abstract: In this session we will discuss how the IBM Software Defined Infrastructure portfolio can enable your organization to deliver IT services in the most efficient way possible, optimizing resource utilization to accelerate time to results and reduce costs. It is the foundation for a fully integrated software defined environment, optimizing your compute, storage and networking infrastructure so you can quickly adapt to changing business requirements. A comprehensive portfolio, which include the IBM Spectrum Computing and IBM Spectrum Storage product families, enable organizations to dynamically manage workloads and data, transforming a static IT infrastructure into a workload, resource and data-aware environment. Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing (a non-NDA version of this briefing is available upon request)

Owner: Jeff Karmioli

Speakers: Nick Werstiuk

S06 – IBM Spectrum LSF Family

Abstract: IBM Spectrum LSF is a powerful workload management platform for demanding, distributed HPC environments. This session will deliver an update on the latest release of IBM Spectrum LSF family, including new capabilities improving usability, and support for new workloads including deep learning frameworks, and containers.

This session will also cover, as needed, IBM Spectrum LSF Analytics, IBM Spectrum LSF Application Center, IBM Spectrum LSF Data Manager, IBM Spectrum LSF Explorer, IBM Spectrum LSF License Scheduler, IBM Spectrum LSF Process Manager, IBM Spectrum LSF RTM, and IBM Spectrum LSF Session Scheduler. This is an NDA discussion that includes a conversation around future product direction. Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing (a non-NDA version of this briefing is available upon request)

Owner: Gabor Samu

Speakers: Bill McMillan, Bill S McMillan, Gabor Samu

S07 – IBM Spectrum Symphony

Abstract: This session will deliver an update on the latest release of IBM Spectrum Symphony, the industry-leading enterprise-class management software for running a wide variety of distributed applications and big data analytics on a scalable, shared grid. This is an NDA discussion that includes a conversation around future product direction. Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing (a non-NDA version of this briefing is available upon request)

Owner: Jeff Karmioli

Speaker: Nick Werstiuk

S08 – IBM Spectrum Conductor with Spark

Abstract: IBM Spectrum Conductor with Spark is an enterprise-grade, multi-tenant solution for Apache Spark. It allows organizations to deploy Spark efficiently and effectively, simultaneously supporting multiple instances of Spark, increasing performance and scale, and eliminating silos of resources that would otherwise be inefficiently tied to separate Spark implementations. In this session we will address issues including performance at scale, Spark multi-tenancy, enterprise-grade management, security and migration from or working with current frameworks such as Hadoop. This is an NDA discussion that includes conversation around future product direction. A non-NDA version of this briefing is available upon request. Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing (a non-NDA version of this briefing is available upon request)

Owner: Gabor Samu

Speaker: Nick Werstiuk

S09 – IBM High Performance Services (HPC Cloud)

Abstract: IBM High Performance Services delivers versatile, ready-to-use hybrid and stand-alone clusters in the cloud for organizations that need to quickly add compute and storage capacity. The services include IBM Spectrum LSF and IBM Spectrum Symphony workload management software and IBM Spectrum Scale software defined storage. A dedicated and experienced Cloud Operations teams fully provisions and configures the clusters in any one of the IBM Cloud global data centers on dedicated bare-metal and virtual infrastructure with optional GPUs. Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing (a non-NDA version of this briefing is available upon request)

Owner: Gabor Samu

Speakers: Terry Fisher, Jeff Karmioli

HPC Programming and Tools

S10 – NVIDIA PGI Compilers for OpenPOWER+Tesla: Tearing Down the CPU/GPU Memory Wall -NDA Briefing

Abstract: PGI Fortran, C and C++ compilers for IBM Power Systems S822LC for HPC servers dramatically simplify parallel and GPU programming for scientists and engineers. NVIDIA's PGI Compiler team will give an overview of their optimizing compilers for the latest IBM OpenPOWER servers featuring NVLink and NVIDIA Tesla P100 GPU accelerators (Pascal). A new, Free, Community Edition allows you to explore these tools as a means to improve your programmability and performance.

You will learn how PGI compilers together with NVLink and CUDA Unified Memory enable quick and easy porting of applications from Linux/x86 to Linux/OpenPOWER and incremental parallelization and acceleration of applications on NVIDIA Tesla P100 GPUs using OpenACC to maximize performance portability. The PGI team will also provide an overview of current and future plans for OpenMP, OpenACC and CUDA Fortran on multi-core OpenPOWER CPUs and NVIDIA GPUs.

Classification: NDA Briefing

Owner: Douglas Miles, (Douglas Miles dmiles@nvidia.com) Brett Newman

Speakers: Douglas Miles, Brad Davidson (Optional, bradd@nvidia.com), Brett Newman (Optional)

S11 – IBM XL C/C++/Fortran Compilers for OpenPOWER: GPU Exploitation with OpenMP and CUDA – Non-NDA Session

Abstract:

The IBM XL C/C++ and XL Fortran compilers are mature compilers on the OpenPOWER systems with advanced optimization to provide full exploitation for the POWER architecture. These compilers have been rapidly expanded to include the support to exploit NVIDIA GPU.

This presentation will provide the latest update on the XL compilers, including enhancements targeting upcoming POWER9 architecture, functional and performance enhancements in OpenMP 4.5 support to exploit NVIDIA GPU, and enhancements to provide interoperability between OpenMP and CUDA C/C++/Fortran. We will also share with you some of the best practices to enable GPU acceleration for your applications.

Owner: Wang Chen

Speaker: Wang Chen, Kelvin Li

S12 - High Level Programming Approaches for OpenPOWER and CORAL systems

Abstract: The OpenPOWER systems architecture comprises both CPUs and GPUs to enable the delivery of increased application performance for Technical Computing users. In the CORAL timeframe, the systems will be further enhanced by the addition of NVLINK, which will provide a coherent memory view across the node. The ability to develop applications that exploit the performance of these systems in a highly productive manner will be greatly enhanced with the availability of compilers and tools which support high-level programming models.

This session will provide an overview of the OpenMP4 support for heterogeneous architectures which is currently being enabled in the LLVM open source compiler infrastructure. We also include some discussion on best practices, porting experiences to date, and programming suggestions for performance enablement within portability constraints.

Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.

Classification: NDA Briefing

Owner/Speaker: Kathryn O'Brien

Storage

S13 – IBM Spectrum Scale delivers integrated support for NFS, SMB and Object

Abstract: IBM Spectrum Scale is a proven, scalable, high-performance data and file management solution (based upon IBM General Parallel File System or GPFS technology) that is deployed across multiple industries worldwide. IBM Spectrum Scale provides simplified data management and integrated information lifecycle tools capable of managing petabytes of data and billions of files, in order to manage the growing cost of dealing with ever-increasing amounts of data. IBM Spectrum Scale V4.2.1 introduces transparent cloud tiering to enable seamless integration of local or cloud object storage.

Classification: NDA Briefing

Owner: Doug O'Flaherty

Speakers: Sven Oehme, Douglas O'Flaherty

S14 – IBM Elastic Storage Server, based on IBM Spectrum Scale software

Abstract: IBM Elastic Storage Server is a fully integrated server-based storage system for Analytics and HPC, which combines Spectrum Scale software (previously known as GPFS) with the latest generation of IBM Power processors to deliver a complete high-performance, high-value scalable storage solution including erasure coding software, instead of traditional RAID, to deliver high reliability and a graphical user interface to simplify deployment and management.

Classification: NDA Briefing

Owner: Douglas O'flaherty

Speakers: Matthew Drahzal

S15 - ESS Roadmap

Abstract: This NDA (Non-Disclosure Agreement) session will review the Roadmap for IBM Elastic Storage Server. Near-term announcements regarding IBM Statement of Direction for All Flash ESS, roadmap for additional functions and enhancements, Spectrum Scale integration, Service/Support, and longer term strategic directions will be reviewed.

Classification: NDA Briefing

Owner/Speaker : John M. Sing

S16 - FlashSystems for Superior HPC Throughput

Abstract: In this session, learn how IBM FlashSystem Family, all-flash storage arrays, can be used to make applications and data centers faster and more efficient. For applications that need to go fast, MicroLatency matters; OLTP, analytics, high performance computing, virtual desktops, and cloud infrastructures all perform better with MicroLatency. Learn about the Families' newest systems and how to take advantage of the enterprise-class, advanced storage capabilities of IBM virtualized storage systems, and how they are combined with the best-of-breed technology.

Classification: NDA Briefing

Speaker: Philip Clark

S17 - IBM Tape Products Update and Roadmap

Abstract: Change is underway in the HPC tape market. Get a first look at the details behind significant IBM tape product announcements for 2017. These new tape products will improve cost efficiency, storage density, ease-of-use, and security for open systems data retention infrastructures. This session also provides an overview of IBM's strategic direction for tape products including a summary of planned enhancements to the IBM tape product family for the next 18 months. Products covered include TS4500, TS3500, TS11xx and LTO tape products.

Classification: NDA Briefing

Speaker: Lee Jesionowski

IBM is offering three level of HPSS briefings during ISC 2017 (Please note: all HPSS briefings are 1 hour):

S18 - High Performance Storage System (HPSS)

Abstract: HPSS is software defined storage designed to manage and access exabytes of data, spanning billions of files, at high data rates in cloud or high performance computing storage environments. HPSS presents a file system and a cloud interface directly to users who have access to common tools and transfer protocols (FTP, GridFTP, sFTP, Swift, S3, VFS FUSE, NFS, HSI, HTAR, etc.) to store and retrieve their files. Files can be on disk, disk protected by tape, disk space managed by tape, or stored directly to tape. HPSS maintains the integrity of files over time with user checksums and logical block protection (T10 LBP) features. Additionally, when coupled with one or more Spectrum Scale systems, a single HPSS provides automatic high performance space management and disaster recovery services to Spectrum Scale in the background while users just use Spectrum Scale.

HPSS has a cluster design that combines the power of multiple computers, disk storage units, tape libraries, and tape drives, into a single, integrated storage system. HPSS can manage billions of files, exabytes of data, and extreme data transfer rates. No matter how large, the storage system always appears to users as a single storage service with a unified common name space.

Classification: Non-NDA Briefing

Owner: Isabel Schwerdtfeger

Speakers: Jim A. Gerry, Ramin Nosrat

S19 - HPSS Overview

Abstract: An Overview of HPSS for customers who want to understand the benefits of the HPSS collaboration, the HPSS software, and the HPSS service offering. At the end of this talk, you will understand why HPSS is considered “best of breed for tape.” This is a 45 minutes slide presentation with an additional 15 minutes for questions and answers.

Classification: Non-NDABriefing

Owner: Isabel Schwerdtfeger

Speakers: Jim A. Gerry, Ramin Nosrat

S20 - HPSS Roadmap

Abstract: The HPSS Roadmap and Overview of Advanced Technology Work. This presentation has been updated to reflect the latest activities within the HPSS community. This is a 45 minutes slide presentation with an additional 15 minutes for questions and answers.

Classification: NDA Briefing

Owner: Isabel Schwerdtfeger

Speakers: Jim A. Gerry, Ramin Nosrat

S21 - HPSS Deep Dive

Abstract: An Ad-Hoc Consulting Session to meet with business and technical leaders faced with managing the cost of storing data that is being generated and collected at a near-exponential rate, in a cost-effective manner, using a combination of storage technologies to meet the most demanding storage requirements. Areas that are often discussed as a follow-on to Briefing #1 and Briefing #2 are:

- All data corrupts, data on disk, data on tape, data in flight, and data at rest; are you protected? Let us tell you how HPSS end-to-end data integrity works.
- Active cloud data should be on spinning disk or flash storage, while idle cloud data should be archived to tape until needed. Learn how HPSS is coupled with OpenStack Swift to deliver massive cloud storage solutions, and how HPSS maximizes tape drive performance.
- One massive Spectrum Scale cluster is easier to manage, but a failure will be catastrophic. Storage pools are safer, but will create storage hot-spots. Yes, one HPSS can space manage and protect multiple Spectrum Scale file systems. Yes, HPSS is simultaneously optimized for tiny files and massive files flowing on and off tape! Yes, HPSS is designed to restore massive Spectrum Scale file systems in a way that puts the file system back online BEFORE the data restore process begins - reduced downtime! Learn how HPSS Spectrum Scale Interface performs all these tasks and more.
- Do you have a modern and cost-effective backup strategy for your HPC environment or your site? Learn what NASA Langley Research Center is doing with HPSS and Bacula Enterprise Edition.

Classification: Non-NDA Briefing

Owner: Isabel Schwerdtfeger

Speakers: Jim A. Gerry, Ramin Nosrat

Power Systems

S22 – Building Better Systems for HPC - Power Systems LC Line & Future Power Systems Servers – NDA Briefing

Abstract: Architecting better clusters means starting with systems built better for HPC. This presentation will introduce the architectural advantages of Power Systems LC Servers which make them better suited for HPC and accelerated computing. We'll explain what applications domains were behind the design choices, and we'll translate the results into real-world performance—especially for POWER8 with NVLink servers like S822LC for HPC/"Minsky" but also for future POWER9 offerings.

Through real customer usage model deployments, you'll see how peers have harnessed this superior architecture to dramatically rethink their HPC workflows.

This is the perfect deep exploration for anyone architecting their next cluster or interested in HPC hardware. We'll also explore future Power Systems offerings, what workloads they are matched for, and their forms and density.

Classification: NDA Session

Owner: Brett Newman

Speaker: Brett Newman, Dylan Boday

S23 - POWER9 Processor and Core Deep Dive for HPC

Abstract : This presentation will provide a deep dive into the features and capabilities of the POWER9 processor from the lens of our processor architects. Special attention will be paid to the features of POWER9 supporting HPC, other latency and security sensitive workloads and also unique interfaces to accelerators like FPGA, GPUs, Storage Class Memory.

Classification: NDA Session

Owner: Shakti Kapoor, Brett Newman

Speaker: Shakti Kapoor

S24 - Next Gen HPC System Technologies: OpenCAPI, next-gen memory, & advanced interfaces

Abstract : We're entering a new level of diversity in HPC system design. Learn about next-generation HPC technology that innovates at every level of the system stack. We'll dive deep into upcoming IBM and OpenPOWER Foundation innovations:

1. OpenCAPI, a consortium driving open interfaces deep into the processor for accelerator and IO innovation
2. Next-generation memory technology—which enables near-memory performance for caching, persistence and beyond
3. Other advanced systems interfaces—like those used to create large SMPs

These solutions are being used to build coherent accelerators, new caches, immense local memory, larger SMPs, and countless new uses that only you will begin to dream of. Feel free to specify your greatest area of interest.

This session is also an opportunity to provide feedback to our senior engineers—we're interested in both your dream HPC architectures for future designs and how you might use the architectures above (or wish they were adapted) for your application.

Classification: NDA Briefing

Owner/Speaker: Steve Fields

S25 – IBM POWER + NVIDIA Tesla Workloads and Roadmap- Proven for HPC

Abstract: POWER8 with NVLink and Tesla P100 are here, and they are revolutionizing GPU computing deployments for HPC, the enterprise, and AI. Our partners at NVIDIA will share how leaders in each of these fields are exploiting GPUs in ways you can leverage for both these and every HPC workload. We will briefly explore how the “Pascal” architecture is impacting applications and how NVIDIA hardware and software help enable you to realize the most out of OpenPOWER and Power Systems platforms.

In depth Tesla GPU product information will be discussed, a brief product roadmap delivered, as well as how you can get started today. **Attendees will need to bring signed non-disclosure agreements with them or sign non-disclosure agreements at the door.**

Classification: NDA Briefing

Owner: Brad Davidson, Brett Newman

Speakers: Brad Davidson, NVIDIA (bradd@nvidia.com), Brett Newman (brett.newman@us.ibm.com)

S26 - Mellanox InfiniBand Solutions and Directions

Abstract: Mellanox InfiniBand is the critical bridge between the ingredients of the highest performing clusters. Mellanox experts will review the latest portfolio of InfiniBand and fabric solutions and Mellanox's contributions to OpenPOWER ecosystem innovation. This includes technology unique to IBM Power Systems and OpenPOWER servers, how it can benefit you, and a comparison of industry fabrics. Upcoming products and directions will also be discussed.

Classification: NDA Briefing

Owner: Scot Schultz, Brett Newman

Speaker: Scot Schultz (scots@mellanox.com), Brett Newman

S27 - The OpenPOWER Foundation

Abstract: The OpenPOWER Foundation was founded in 2013 as an open development community that will enable datacenters to rethink their approach to technology. Over 300 institutions and organizations have joined the Foundation to collaborate on the designs that advance. Foundation members may leverage POWER for custom open servers and components for Linux-based cloud data centers as well as for building a rich software ecosystem around.

This presentation will review the OpenPOWER Foundation and its mission, and share the realizations and growth in the last year.

Classification: Non-NDA-Briefing

Owner/Speaker: Greg Phillips

Deep Learning, Machine Learning, and Artificial Intelligence

S28 - Deep Learning with IBM Power AI

Abstract : The past three years have seen a rapid expansion in the use of cognitive and artificial intelligence technologies in enterprise and scientific domains. Machine Learning and Deep Learning open up new capabilities in understanding and working with data, and IBM has simplified and accelerated the use of these technologies with PowerAI. In this session, IBM will provide an overview of PowerAI, discuss the specific benefits and optimization IBM has made available in top deep learning frameworks such as TensorFlow, Caffe, Torch, Chainer, and Theano, particularly as it impacts training and operation at large scale. In addition, IBM will present future directions in deep learning, and how PowerAI and other cognitive tools can be incorporated within traditional and non-traditional high performance computing.

Classification : NDA-Briefing

Speaker : Scott Soutter

S29 - Exploring Large Models in Deep Learning with PowerAI

Abstract : In this session, IBM will present new capabilities in Deep Learning which are designed to specifically address problems involving larger training models and deeper neural networks. IBM will describe specific optimization incorporated in the PowerAI Deep Learning platform, how these new capabilities take advantage of the full NVLink connectivity within the IBM Cognitive Systems servers, and future directions in AI and Deep Learning.

Classification : NDA-Briefing

Speaker : Scott Soutter

S30 - IBM Power AI for the Data Scientist

Abstract : One of the biggest challenges to using cognitive and artificial intelligence technologies is to enable data scientists to access algorithms, model and corpii simply and productively. In this session, IBM will provide an overview of Data Science experience, particularly how it works with PowerAI. In addition, IBM will present future directions in Data Science on Power and how it can be used to leverage both ease of use and performance.

Classification : NDA-Briefing

Speaker : Mark Mattingley-Scott

Advanced Analytics and Databases

S31 - Exploring Graph Databases

Abstract : In this session, IBM will present examples of utilizing graph databases in the areas of security, fraud detection and entity insights. The performance of graph databases depends heavily on a scalable memory architecture, and the advantages of PowerAI will be discussed in this respect. In addition, IBM will present future directions on Graph Databases.

Classification : NDA Briefing

Speaker : Mark Mattingley-Scott

Cloud Technologies

S32 - Cloud Object Storage

Abstract: COS `s dsNet storage system is a breakthrough cloud object storage platform that solves multi-petabyte to exabyte storage challenges for companies and research institutes worldwide. This session summarizes the features that provide the scalability, availability, security, manageability, flexibility, and low TCO of the dsNet storage system. Additionally, it will show how COS integrates with the high performance IBM Spectrum Scale storage system and how it can be used in hybrid cloud deployments with IBM Softlayer.

Classification: Non-NDA Briefing

Owner: Karsten Tramborg

Speakers: Jens Mannteufel

Cross-Brand

S33 - Aspera : Streaming at 100 Gbps over IP

Abstract: Imagine you could create a 3D map of neural activity and send it across the Internet. That's exactly what IBM Aspera's latest technology enabled the University of South Florida to do where researchers inserted 16 probes into a mouse brain and were able to process the entire 80-gigabit-per-second stream in real time from a remote data center. Please join Aspera, an IBM company at ISC 2017 in the IBM booth where we will talk about the transfer technology that enabled this research.

Classification : Non-NDA Briefing

Speaker: Thomas Ahrens, Client Solution Professional – Aspera

S34 - IBM Q / Quantum Computing

Abstract: Quantum Computing has reached an inflection point, and its disruptive nature will be felt in certain industries in the coming years. Companies must understand how quantum computing will impact their industries, put long term strategies in place, and ensure they will be leaders in an era where cognitive and quantum systems work together in tandem to solve today's intractable problems.

This session will provide an overview of quantum computing and the IBM Q program, including new developments with the IBM Quantum Experience at ibm.com/ibmq. Attendees will gain an understanding for practical next steps that they can take on their road to quantum readiness.

Classification : NDA-Briefing

Speaker : Chris Schnabel, IBM Q Offering Manager