Ideation Session

Institute for Defense and Business
8/3/2020 – 8/24/2020

The Microsoft Reston MTC is exited to host the Institute for Defense and Business (IDB) 2020 virtual residency program for this series of two-hour technology briefings.

One thing is common among defense agencies: innovation has always been seen as a key to success, providing smarter services in a more efficient manner, and enabling better decision-making at every level of an organization. The value of digital transformation for defense and intelligence agencies goes beyond cloud infrastructure and platform models and the economic and efficiency gains of modernization. The cloud can multiply the value of siloed legacy systems and data through the application of intelligent services such as advanced analytics, cognitive services, artificial intelligence (AI), the Internet of Things (IoT), and augmented reality (AR). And with the addition of capabilities such as predictive maintenance and new intelligent approaches to cybersecurity, a defense cloud can provide an edge in operational readiness.

We have an exciting agenda where Microsoft Technical Architects will share with you the very latest technology innovations relevant to transformation in Defense industry.

Microsoft Team

- Paul Fisher, Technical Architect
- Brendon Colburn, Technical Architect
- Derrick Schwartz, Technical Architect
- David McDonald, Director Microsoft Technology Center
- Ed Hild, Chief Technical Architect
- Rhett Krulla, Technical Architect
- Frank La Vigne, Technical Architect

August 3 **1500-1700 EDT**	**The DoD Business Case for the Cloud and Virtual Datacenter Experience** Since opening our first datacenter in 1989, Microsoft has invested more than $15 billion on infrastructure, offering cloud options that meet country and government specific requirements. This includes our continued commitment to delivering the most trusted cloud for government in the U.S. with hardened datacenters, geo-replication over 500 miles apart, and 24x7 monitoring by US screened persons, that integrates with your existing IT environment through the largest network of secure private connections, hybrid database and storage solutions, and data residency. In this session we'll discuss how this infrastructure all works together to provide advanced capabilities for DoD agencies.	**Paul Fisher**
August 6 **1500-1700 EDT**	**Zero Trust and Cloud Security for Government and Defense** The security of Defense information systems is subject to constant attempted attacks and in need of a modern approach to cybersecurity. The Microsoft Cloud provides best-in-class productivity apps while protecting identities, devices, applications, networks, and data. With our security services, governments can take confident steps to adopt a Zero Trust security model where all users and devices—	**Rhett Krulla**

both inside and outside the network—are deemed untrustworthy by default and the same security checks are applied to all users, devices, applications, and data.

August 10
1500-1700 EDT

Business Intelligence, Artificial Intelligence and Cognitive Services

Frank La Vigne

Directing the right force to the right place at the right time is central to successful defense and intelligence operations. Cloud analytics are capable of ingesting enormous amounts of information and transforming it into visualizations and insights that drive effective action. With technology that reaches from the cloud to the intelligent edge, agencies can put data and tools to their best and highest use. Edge processing means sophisticated machine learning technology can be put to work on data at the point of origin, thus supporting the personnel who have to make decisions, and identifying which data should be sent to the cloud. With digital intelligence distributed at all levels of the command and control infrastructure, you can enable data-driven decision making in response to moment-by-moment changes in the operational environment.

August 13
1500-1700 EDT

Modern Workplace and Defense Collaboration

Ed Hild

This demonstration shows the art of the possible through "day in a life" scenarios of an organization that has undergone a digital transformation. We highlight how Microsoft solutions (such as Office 365, Microsoft Teams, SharePoint Online, etc.) enable a modern workplace where collaboration is accelerated but in secure and compliant environment. This demonstration will focus on the business value of the latest solutions and benefits to the end user.

August 17
1500-1700 EDT

HoloLens, Mixed Reality, and IOT at the Tactical Edge

Derrick Schwartz

From the first day of enlistment, Augmented Reality technology can help individuals perform complex tasks with 100 percent accuracy, helping them fulfill their potential faster and serve their nations better. The Internet of Things (IOT) along with the Tactical Edge enable new scenarios in Defense, including intelligent maintenance and supply chains. This session will give the direction Microsoft is taking with its Holographic computing devices and show the capabilities of the second generation Hololens 2. We will look at the capabilities with Mixed Reality services in the cloud. This demonstration will also show the Microsoft Edge Computing story and how the power of the cloud can be pushed all the way out to the tactical edge.

August 20
1500-1700 EDT

Low Code Platforms for enabling Defense processes

Brendon Colburn

As with any large organization, militaries rely on many complex systems and business processes to operate efficiently and effectively. They often have home-grown software solutions or worse, run on spreadsheets and other less effective tools. Low-code platforms are a new alternative to help your organization quickly build and deploy cloud solutions to automate your business processes and track your mission critical operational data.

August 24
1500-1700 EDT

Technology Futures – Blockchain for Supply Chain and Quantum Computing

Paul Fisher
Frank La Vigne

Over the course of this series we've presented a lot current Azure capabilities that DoD agencies can use to advance their organizational capabilities. In this session, we'll discuss one of the newest technologies, Blockchain, and how it can be used for protecting your supply chains. We will also talk about technologies in which

Microsoft is investing for future capabilities – Did you know that we hope to be able to record data in pieces of glass? Did you know that we are thinking of attaching fuel cells directly to server racks? We will spend a majority of the futures discussion focusing on Quantum Computing, which is not only real, but closer to coming into general use than you might think.