

2019 Deployable Communications Technology Forum

A premier educational engagement advancing edge solutions for today's warfighter



Hosted & Organized by:



Monday, April 15, 2019 - Thursday, April 18, 2019
The Shelbourne Hotel
Dublin, Ireland

AGENDA

Overview

www.deployablecommunicationsforum.com

<p>Program Design and Goals</p>	<p>Over half a decade ago, a small team of executive, expeditionary and tactical communications teams within the highest levels of the U.S. Department of Defense (DoD) assembled together with key industry technology companies for the first time to tackle common communication issues and challenges faced across the community. What was created, the annual Deployable Communications Technology Forum, emerged as an intimate educational engagement where delegates collaborate with one another and industry to develop solutions that address mission-critical communication needs. With an emphasis on distilling approaches to operational flexibility, security concerns, and enhanced networking capabilities across the full spectrum of deployment platforms and operational environments - including “denied” communication situations, the forum is a unique conduit for top communications organizations within the DoD to meet with similar teams outside of their respective offices to collaborate on common issues faced and generate solutions that directly impact their department’s mission success.</p> <p>This year, government and industry delegates will gather again, working to empower the warfighter with concerted attention on how the connected battlefield works in action. The agenda for this four-day event will include distinguished keynote speakers, working groups, preparatory certification training opportunities, panels and breakout sessions that will enable delegates to focus on goals pertinent to their respective organizations.</p>
<p>Operating Guidelines</p>	<p>The forum is hosted and organized by Catai Solutions, a 501c3/c4 tax-exempt organization. It provides a basis for communication that is fair and transparently consistent with DoD’s March 2, 2018 directive for engaging with industry and is designed to meet all relevant compliance requirements including Conflict of Interest (18 U.S.C § 208); Procurement Integrity (41 U.S.C § 2102 and 48 C.F.R § 3.104-4); Trade Secrets Act (18 U.S.C § 1905); Federal Advisory Committee Act (5 U.S.C. App.2) “FACA”; Impartiality (5 C.F.R § 2635.101 and § 2635.501-503); Nonpublic Information (5 C.F.R. § 2635.501-703).</p>
<p>General Target Audience</p>	<p>Communication systems program managers, active duty military supporting mobile executive and tactical communications, commanding general communications teams, J6/G6 organizations, security/IA managers, cybersecurity professionals, policymakers in defense, foreign relations, and decision makers from executive and tactical communications teams. Representatives from the special operations, Combatant Commands, DISA, NSA, COCOMs, the Services, and commanding generals’ communications teams have been invited to brief.</p>
<p>Specific Topics to be Addressed</p>	<ul style="list-style-type: none"> ➤ Software-Defined Networking (SD-WAN) ➤ Artificial Intelligence (AI) and Machine Learning (MI) for Military Application ➤ Lightweight, Mobile, Modular, and Scalable Tactical Network Systems ➤ Commercial Solutions for Classified (CSfC) with Support from the NSA ➤ Dedicated Track for Executive Communications Teams ➤ Operating in Contested Environments ➤ Cloud Computing at the Tactical Edge

<p>Monday, April 15</p>	
<p>0900 – 1700</p>	<p>Forum Check-In/Registration Location: <i>The Shelbourne Hotel Lobby</i></p>

	<p>Pick up your name badge and information packet at the dedicated forum check-in table located in The Shelbourne Hotel Lobby.</p>
0900 – 1200	<p>Training: Cisco Software Defined WAN (SD-WAN) Location: <i>The St. Stephen's Suite, Second Floor, The Shelbourne Hotel</i> <i>Tea/coffee/biscuits will be served</i></p> <p>Training will provide an overview and hands-on experience configuring an SD-WAN solution with advanced routing, segmentation, and security capabilities for interconnecting complex enterprise networks from home station to the tactical edge.</p>
1215 – 1415	<p>Training: Nutanix Automating Mission-Critical Applications for Tactical Deployments Location: <i>The St. Stephen's Suite, Second Floor, The Shelbourne Hotel</i> <i>Sandwiches will be served</i></p> <p>A hands-on workshop that will show you how field operators can rapidly deploy, provision and scale mission-critical applications in the field with one-click simplicity.</p> <p>With Nutanix Calm, field-operators can harness enterprise-grade features in the theater and support the mission with application automation and lifecycle management capabilities that span multi-cloud environments. Calm builds on a proven web-scale software platform to make the entire IT infrastructure more agile and application centric.</p> <p>During the workshop, students will receive access to Nutanix's Proof of Concept suite and hands-on experience with the following features:</p> <ul style="list-style-type: none"> ➤ Unified Management and governance across cloud, hypervisors, and application types ➤ Removing IT bottlenecks by turning specialized operations into push button automation ➤ Automated Self-Service for users with the Nutanix Marketplace ➤ Orchestrating across Virtual Machines (VMs), containers, and cloud resources to build any application ➤ Single Language for Application Modeling with flexibility to integrate with each team's tool of choice
1300 – 1700	<p>Exhibit Set Up Location: <i>Exhibit Hall</i> (For sponsors only)</p>
1430 -1630	<p>Training: VMware Introduction of NSX, Network Insight, and VeloCloud SD-WAN Location: <i>The St. Stephen's, Second Floor, Second Floor, The Shelbourne Hotel</i> <i>Tea/coffee/biscuits will be served</i></p> <p>This session covers an introduction to virtual networking, defined in software, and how to visualize it. VMware NSX elevates the network security and forwarding decisions to a distributed layer closest to the work loads. This enables automation, micro-segmentation, and cloud networking. Technologies introduced: NSX, Network Insight, and VeloCloud SD-WAN.</p>
1630 – 1700	<p>Presentation: RunSafe Security Assuring Reliability and</p>

	<p>Resilience A presentation on protecting the cloud/virtualized data center; the hidden costs of a detection-based approach <i>The Setanta Suite, Second Floor, The Shelbourne Hotel</i></p>
1730 – 2030	<p>Welcome Reception at The Shelbourne Hotel No.27 Bar; kindly sponsored by Inmarsat Government and Klas Telecom Location: <i>The Shelbourne Hotel No.27 Bar</i> Attire: <i>Smart Casual</i></p>

Tuesday, April 16	
0730-0830	<p>Late Registration Location: <i>The Shelbourne Hotel Lobby</i></p> <p>Pick up your name badge and information packet at the dedicated forum check-in table located in The Shelbourne Hotel Lobby.</p>
0800 – 0830	<p>Networking Location: <i>Exhibit Hall</i></p> <p>Light networking opportunity over coffee, tea, and scones.</p>
0830 – 0900	<p>Forum Welcome – Joseph M. Shields, Esq., Managing Director, Catai Solutions Location: <i>The Great Room</i></p> <p>Day One Kick-Off – Master of Ceremonies (MC) Introductions <i>MG (Ret.) Lawrence “Wayne” Brock III, U.S. Army</i> <i>MajGen (Ret.) Mark “Droopy” Clark, U.S. Marine Corps</i></p>
0900 – 1015	<p>Keynote Address – Ash Carter, U.S. Secretary of Defense (2015–2017)</p> <p>Building a Bridge to the Future: Silicon Valley and the Intersection of Public and Private Sectors</p>
1015 – 1045	<p>Refreshment Break Location: <i>Exhibit Hall</i></p>
1045 – 1100	<p>Synopsis of Forum Goals – David Huisenga, President and CEO, Klas Telecom Government (KTG)</p>
1100 – 1105	<p>Introduction to Software-Defined Networking (SDN) – Biney Dhillon, CEO, NexTech Solutions (NTS)</p> <p>An overview of SDN and how users can use it to orchestrate the deployment of</p>

	survivable, high-performance networks at the edge.	
1105 – 1300	<p>Panel: Software-Defined Networking</p> <p>This exciting technology enables virtualization of network devices and easier network management. It has great ramifications on network flexibility, performance and monitoring. This panel discusses what SDN is and its benefits, how it can be implemented, and how it fits into cloud computing in the enterprise and tactical edge.</p> <p>Moderated by: COL (Ret.) John McLaughlin, former Director, C4 Operations, SOCOM</p> <p>Panelists:</p> <ul style="list-style-type: none"> - Gregory J. Van Dyke, GS-14 Director J6/Chief Information Officer, JCSE - CW5 Robert Byrd, Chief Engineer, SOCOM J6 - CW4 (Ret.) Burke Brooks, former Chief Engineer, SOCOM J6 - Jack Hart, Division Chief, C2MA-CIPHER, Georgia Tech Research Institute - Mike Colson, Senior Solutions Architect, Amazon Web Services (AWS) - Michael Geist, VP Strategy and Technology, Envistacom 	
1300 – 1400	<p>Lunch Location: <i>Second Floor</i></p> <p>**Provided and included in the cost of registration</p>	
1400 – 1530	<p>TechTalks Location: <i>The Great Room</i></p> <p>1400 – 1430: NFVIS <i>Aaron Warner, Cisco</i></p> <p>1430 – 1500: Converging Network Operations <i>Suman Mallick, CodeMettle</i></p> <p>1500 – 1530: SD-WAN The Programmable Tactical Kit (ProTack) <i>Mark Nguyen, VMware</i></p>	<p>Executive Communications Track Location: <i>The Constitution Room</i></p> <p>Moderators: <i>CW3 (Ret.) Jason Blair Former Operations Chief Technical Officer at WHCA and Jace Hornage, Klas Telecom Government</i></p> <p>1500 – 1530: WAN Connectivity</p> <p>1630 – 1700: Software-Defined Network (SDN)</p> <p>1700 – 1730: Reduction of Classified Material</p>
1530 – 1545	<p>Refreshment Break Location: <i>Exhibit Hall</i></p>	
1545 – 1715	<p>Panel: Operating in a Contested Environment</p> <p>The military operates in contested environments in both peace and war. This panel discussion will shed light on the difficulties faced in this environment and ideas on how to improve our ability to operate and fight in the contested electronic warfare and cyber environments including all aspects of CEMA as we are confronted with everything from peer competitors, regional rouge states, terrorists, and ourselves.</p> <p>Moderated by: LTG (Ret.) John F. Mulholland Jr., former Associate Director of the CIA for Military Affairs, Deputy Commander of SOCOM, Commanding General of</p>	

	<p>USASOC, Deputy Commander of JSOC</p> <p>Panelists:</p> <ul style="list-style-type: none"> - CDR David Perry, Division Chief, SOCEUR - Lt Col Reynaldo “Champ” Champion, Deputy Commander, JCSE - Mary Ann Leslie, CIO Strategic Planner, SOCOM - LtGen (Ret.) Lawrence Nicholson, former Commanding General, III MEF - SES (Ret.) John A. Wilcox, former CIO, SOCOM J6 - Brigadier (Ret.) Mark Smethurst, DSC, AM, Australian Defence Forces
1815 - 2200	<p>Reception and Dinner at Croke Park Stadium; kindly sponsored by Haivision and Harman</p> <p>Location: <i>Croke Park Stadium, Jones’ Road, Dublin 3</i></p> <p>Transportation: <i>Please be in the Lobby by 1800. Buses depart from the hotel at 1815 sharp. Buses return to The Shelbourne at 2200.</i></p> <p>Attire: <i>Smart Casual</i></p> <p>Join us for dinner at Croke Park Stadium (home to the Gaelic Athletic Association which governs Gaelic Games - hurling and Gaelic football).</p>

<h2>Wednesday, April 17</h2>

0800 – 0900	<p>Networking</p> <p>Location: <i>Exhibit Hall</i></p> <p>Light networking opportunity over coffee, tea, and scones.</p>
0900 – 0905	<p>Day Two Kick-Off</p> <p>Location: <i>The Great Room</i></p> <p><i>MG (Ret.) Lawrence “Wayne” Brock III, U.S. Army</i></p> <p><i>MajGen (Ret.) Mark “Droopy” Clark, U.S. Marine Corps</i></p>
0905 – 0910	<p>Introduction of Artificial Intelligence (AI) and Machine Learning (ML) in Support of Military Operations – Suman Mallick, CodeMettle</p> <p>A brief overview of AI and ML and how it can be applied to support military operations.</p>
0910 – 1030	<p>Panel: Artificial Intelligence (AI) and Machine Learning (ML) in Support of Military Operations</p> <p>This panel explores important ideas and use cases for how AI and ML will support military operations. It will also explore some of the difficulties implementing AI and ML at the tactical edge and what can be done to address susceptibility to attack.</p> <p>Moderated by: COL (Ret.) John McLaughlin, former Director, C4 Operations, SOCOM</p> <p>Panelists:</p> <ul style="list-style-type: none"> - COL Wade Johnston, CIO, Army Futures Command - MAJ Randy Linnemann, J3, JCU

	<ul style="list-style-type: none"> - CW5 Robert G. Byrd, Chief Engineer, SOCOM J6 - Maj (Ret.) Josh Kiihne, U.S. Marine Corps, MITRE - Biney Dhillon, CEO, NexTech Solutions (NTS) 		
1030 – 1130	<p>Refreshment Break Location: <i>Exhibit Hall</i></p>		
1130 – 1300	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>TechTalks Location: <i>The Great Room</i></p> <p>1130 – 1230: ISR combined with AI & ML <i>Biney Dhillon, Nextech Solutions, Jithin Raghunath, Haivision, & Herman Leybovich, Klas Telecom Gov</i></p> <p>1230 – 1300: Quantum: What Is It and Why Should You Care; A High Level Discussion <i>COL (Ret.) John McLaughlin, former Director, C4 Operations, SOCOM</i></p> </td> <td style="width: 50%; vertical-align: top;"> <p>Executive Communications Track Location: <i>The Constitution Room</i></p> <p>Moderators: <i>CW3 (Ret.) Jason Blair Former Operations Chief Technical Officer at WHCA and Jace Hornage, Klas Telecom Government</i></p> <p>1130 – 1245: Multi-Enclave, Secure, Mobile Communications</p> <p>1245 – 1300: Cyber Security</p> </td> </tr> </table>	<p>TechTalks Location: <i>The Great Room</i></p> <p>1130 – 1230: ISR combined with AI & ML <i>Biney Dhillon, Nextech Solutions, Jithin Raghunath, Haivision, & Herman Leybovich, Klas Telecom Gov</i></p> <p>1230 – 1300: Quantum: What Is It and Why Should You Care; A High Level Discussion <i>COL (Ret.) John McLaughlin, former Director, C4 Operations, SOCOM</i></p>	<p>Executive Communications Track Location: <i>The Constitution Room</i></p> <p>Moderators: <i>CW3 (Ret.) Jason Blair Former Operations Chief Technical Officer at WHCA and Jace Hornage, Klas Telecom Government</i></p> <p>1130 – 1245: Multi-Enclave, Secure, Mobile Communications</p> <p>1245 – 1300: Cyber Security</p>
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1300 – 1400	<p>Lunch Location: <i>Second Floor</i></p> <p>**Provided and included in the cost of registration</p>		
1400 – 1500	<p>Panel: Cloud in Support of Military Operations in a Tactical Environment</p> <p>Increasingly, the cloud is in wide use as part of our nation’s defense. There are important benefits and challenges affecting the military as it determines how to implement the use of the cloud by utilizing public, private, and/or hybrid capabilities. This panel discusses the benefits, pitfalls, challenges, and methodologies for how to utilize the cloud in harrison and tactical environments.</p> <p>Moderated by: LTG (Ret.) Mark Bowman, former Director C4/Cyber, CIO, Joint Staff J6/CIO, the Pentagon, Washington, D.C.</p> <p>Panelists:</p> <ul style="list-style-type: none"> - COL Wade Johnston, CIO, Army Futures Command - Col Robert King, Senior Materiel Leader, Air Force Life Cycle Management Center - CW5 Robert G. Byrd, Chief Engineer, SOCOM, J6 - SES (Ret.) John A. Wilcox, former CIO, SOCOM J6 - COL (Ret.) John Conniff, COO, ORock Technologies, Inc. 		
1500 – 1530	<p>Refreshment Break Location: <i>Exhibit Hall</i></p>		
1530 – 1700	<p>TechTalks Location: <i>The Great Room</i></p>		

	<p>1530 – 1630: Cloud to Edge <i>Richard Gallant, NexTech Solutions & Michael Maice</i></p> <p>1630 – 1700: Use Application and End User Performance Profiling to Smartly Move to the Cloud <i>Marlin McFate, Riverbed & Bob Addis, Klas Telecom Gov</i></p>
1830	<p>Dinner at Brasserie Sixty6; kindly sponsored by Zscaler and Klas Telecom Location: 66-67 South Great George's Street, Dublin 2 Transportation: Brasserie is within a 10 minute walking distance from The Shelbourne Hotel. Please depart the hotel at 1815 to arrive at the restaurant at 1830 Attire: Smart Casual</p> <p>Join us for dinner at Brasserie Sixty6.</p>

Thursday, April 18	
0800 – 0900	<p>Networking Location: <i>Exhibit Hall</i></p> <p>Light networking opportunity over coffee, tea, and scones.</p>
0900 – 0905	<p>Day Three Kick-Off <i>MG (Ret.) Lawrence "Wayne" Brock III, U.S. Army</i> <i>MajGen (Ret.) Mark "Droopy" Clark, U.S. Marine Corps</i> Location: <i>The Great Room</i></p>
0905 – 0930	<p>The National Security Agency (NSA) Commercial Solutions for Classified (CSfC) – Mr. Jeff Watkins, Communications Director, CSfC, NSA</p>
0930 – 1045	<p>Panel: Commercial Solutions for Classified (CSfC)</p> <p>Since NSA approved the use of CSfC, they have become a great tool for organizations and individuals. This panel explores the benefits of CSfC, how it is being utilized, and how to implement the gray networks that support it, and the next mission areas that can benefit from these network use.</p> <p>Moderated by: MajGen (Ret.) Mark Clark, Most recently served on active duty as the fourth commander of Marine Corps Special Operations Command (MARSOC)</p> <p>Panelist:</p> <ul style="list-style-type: none"> - COL Wade Johnston, CIO, Army Futures Command - CDR Dave Perry, Division Chief, SOCEUR - CW3 Shawn Petermann, JCSE J6 - CWO5 (Ret.) David Cabrera, MITRE - CW4 (Ret.) Burke Brooks, former Chief Engineer, SOCOM J6 - Mr. Jeff Watkins, Communications Director, CSfC, NSA

1045 – 1100	<p>Refreshment Break Location: <i>Exhibit Hall</i></p>
1100 – 1230	<p>TechTalks Location: <i>The Great Room</i></p> <p>1100 – 1130: Gray Networks Discussion CW4 (Ret.) Burke Brooks, former Chief Engineer, SOCOM J6</p> <p>1130 – 1200: Utilizing Network Service Orchestration and High Assurance Real-Time Operating System for CSfC Mobile and Wireless Capabilities <i>Dylan Conner, ID Technologies and Chris Nienke, Klas Telecom Gov</i></p> <p>1200 – 1230: Cellular: TBD <i>Ryan Kendrick, Klas Telecom</i></p>
1230 – 1330	<p>Lunch Location: <i>Second Floor</i></p> <p>**Provided and included in the cost of registration</p>
1230 -1415	<p>Training: Klas Telecom Introduction of Tactical Radio Systems with VoyagerEMm Location: <i>The Constitution Room, Second Floor, The Shelbourne Hotel</i> <i>Sandwiches will be served</i></p> <p>During this training, attendees will become familiar with Klas Telecom’s Voyager Tactical Radio Integration Kit (TRIK) solution. TRIK allows users the ability to extend the Voyager 8 system’s capabilities to support a range of radios without compromising on size, weight, and power (SWaP). Learn why the flexibility to deliver route, switch, compute, and storage along with seamless tactical radio integration makes Voyager 8 the deployable networking system of choice.</p> <p>Klas Telecom is proud to introduce the next generation in Radio over IP (RoIP) tactical communication modules. Fueled by CISTECH Solution technology, the VoyagerEMm is an integrated RoIP system with interfaces for radio, Ethernet, and handset audio. Learn how to integrate VoyagerEMm into your existing tactical network.</p>
1330 – 1530	<p>Exhibit Hall Open Location: <i>First Floor</i></p>
1330 – 1700	<p>Meeting Rooms Open Location: <i>TBC</i></p>
1415 – 1615	<p>Training: Haivision Streaming Video Considerations for Deployable ISR Location: <i>The George Moore Suite, Second Floor, The Shelbourne Hotel</i> <i>Tea/Coffee and biscuits will be served</i></p> <p>In order to properly construct, manage, and diagnose end-to-end full-motion video (FMV) streaming applications, it is important to understand the various components that comprise video contribution, video distribution, and video consumption workflows. Moreover, video can be better optimized for processing, exploitation and</p>

	dissemination (PED) with careful planning and knowledge of how various components interact and affect video stream quality, latency, and bitrate. This training course will educate users on video compression fundamentals, the proper way to configure Haivision video encoding and transcoding systems, and deployment options to meet specific mission requirements.
1530 – 1700	Exhibit Hall Tear Down Location: <i>Exhibit Hall</i> (For sponsors only)
1830 – 2400	Gala Reception and Dinner at Guinness Storehouse; kindly sponsored by Klas Telecom Location: <i>St. James' Gate, Dublin 8</i> Transportation: <i>Please be in the Lobby by 1815. Buses depart from the hotel at 1830 sharp.</i> Attire: <i>Smart Casual</i>

General Information	
<ul style="list-style-type: none"> ➤ Registration: Registration is available on the homepage of the forum website at www.deployablecommunicationsforum.com ➤ Hotel accommodations: We have a contracted rate with The Shelbourne Hotel that applies Sunday, April 14 - Saturday, April 20, 2019. Please book through the Forum website www.deployablecommunicationsforum.com. If you would like to book outside of these dates, the special rate will not apply to additional nights. ➤ Conference attire: Business Casual (sport coat is fine, no tie required) ➤ Transportation: Transportation during the forum (for non-walkable events) will be provided. ➤ Detailed Transportation Guide: The easiest way to get to The Shelbourne Hotel from Dublin Airport is by Taxi or Aircoach. Please see our detailed transportation guide with everything you need to know on the forum website page www.deployablecommunicationsforum.com. ➤ Classification: UNCLASSIFIED ➤ The forum is open to all U.S. DoD and federal employees and those invited from partner and coalition nations. The event is considered an educational and training forum. The forum is CLOSED TO PRESS / NO RECORDINGS / NON-ATTRIBUTION. 	