



## Conference Programme

**8 June 2020**

<b>08:30</b>	<b>Registration and refreshments</b>
<b>Milsatcom landscape</b>	
09:00	IET & Chairman's welcome and introduction  <i>Dave Davis, MBE, Technical Director, VT iDirect</i>
09:10	MoD Keynote : Analysing the space landscape and how is Brexit impacting the UK's space industry?  <i>Senior Representative, MoD</i>
09:50	Case study by Airbus: challenges and opportunities for the Milsatcom industry
<b>10:30</b>	<b>Refreshments and networking</b>
<b>Defining your space strategy</b>	
11:00	Delivering certainty in an uncertain world: the path to growth and sustainability in military satcom  <i>Nick Shave, Vice President, Strategic Programmes, Inmarsat Global Government</i>
11:40	Evolving landscape of milsatcom and what can be learnt from enterprise and consumer solutions <ul style="list-style-type: none"> <li>- Emerging behaviours and technologies</li> <li>- Futureproofing your business capabilities</li> <li>- Industry best practices and procedures</li> </ul> <i>Neil Fraser, Director – Defence and Space Programmes, NSSLGlobal Ltd</i>
<b>12:20</b>	<b>Lunch and exhibition</b>
13:20	Building scalable, resilient and innovative infrastructures for milsatcom <ul style="list-style-type: none"> <li>- What are the space and ground segments to consider for new infrastructure?</li> <li>- Overcoming the challenges around security and bandwidth</li> <li>- Upcoming projects and solutions</li> </ul> <i>Mike Rudd, Head of Telecommunications Strategy, UK Space Agency</i>

14:00	<p>What secondary payloads makes sense for a military comsat?</p> <ul style="list-style-type: none"> <li>- Going beyond the information exchange requirements of the war fighter</li> <li>- Assessing the novel secondary payload capabilities</li> <li>- Providing these capabilities without major, expensive modifications to either the satellite platform or its communications payload</li> </ul> <p><i>Stuart Eves, Director, SJe Space</i></p>
<b>14:40</b>	<b>Refreshments and networking</b>
<b>Overcoming space threats</b>	
15.10	<p>Mitigating the impact of extreme weather and dynamic space environment on satellite communication</p> <ul style="list-style-type: none"> <li>- Understanding the ever-changing space environment</li> <li>- Mitigation for satellite communications</li> <li>- New developments in space weather sensing and monitoring</li> </ul> <p><i>Gemma Attrill, Principal Scientist, Space Environment Project Technical Authority and Space Weather Lead, Dstl</i></p>
16.10	<p>Overcoming security challenges through Space Situational Awareness</p> <ul style="list-style-type: none"> <li>- Regulations and SST guidelines across Europe</li> <li>- Mitigating the risks of collisions by effectively monitoring and avoiding debris</li> <li>- Lessons learned from the current debris removal missions</li> </ul> <p><i>Serge Plattard, Deputy Director, Space Domain, UCL</i></p>
<b>16:50</b>	<b>Close of Day One</b>
<b>17.00</b>	<b>Networking Drinks</b>

## 9 June 2020

09:00	<p>Chairman's opening</p> <p><i>Dave Davis, MBE, Technical Director, VT iDirect</i></p>
<b>Industry trends</b>	
09:05	<p>Mobile Milsatcom applications – all you need to know!</p> <ul style="list-style-type: none"> <li>- Mobile applications on a high throughput and new military satellite</li> <li>- Looking at land, air and maritime mobile applications</li> <li>- Case studies and lessons learned</li> </ul> <p><i>Paul Wells, Vice President Government Satellite Communications, GovSat</i></p>
09:45	<p>Emerging trend and challenges for the global milsatcom industry</p> <p><i>Ian Annett, Deputy CEO for Project Delivery, UK Space Agency</i></p>
<b>10:25</b>	<b>Refreshments and networking</b>
11:00	<p>Utilising satellite communication for disaster relief and capacity building</p> <ul style="list-style-type: none"> <li>- Building communication networks in extrema conditions</li> </ul>

	<ul style="list-style-type: none"> <li>- Satellite communications for mobilising support and resources</li> <li>- Future humanitarian missions and case studies</li> </ul> <p><i>Chris Lyon, Head of Tech &amp; Innovation, Team Rubicon</i></p>
11.40	<p>Overview of Dstl's satcom research and development</p> <ul style="list-style-type: none"> <li>- The Milsatcom Umbrella Support Project (phase 2)</li> <li>- Approaches to undertaking future demand analysis</li> <li>- Priorities for future SATCOM technology development</li> <li>- The role of the private sector in supporting defence requirements</li> <li>- Future SATCOM concepts</li> </ul> <p><i>David Dean, Senior Principal Engineer, Dstl</i></p>
	<b>Upcoming technologies</b>
12:20	<p>Assessing the disruptive technologies for milsatcom</p> <ul style="list-style-type: none"> <li>- Hybrid threats and emerging technologies</li> <li>- Impact of digital transformation and 5G on satellite communication</li> <li>- Artificial intelligence and cognitive electronic warfare systems</li> </ul> <p><i>Ralph Thiele, President, EuroDefense</i></p>
<b>13:00</b>	<b>Lunch and exhibition</b>
14:00	<p>Synthetic Swarm Satellite Systems and what they mean for the 21st century milsatcom</p> <ul style="list-style-type: none"> <li>- Principles and applications for swarm technologies</li> <li>- Risk mitigation for future physical space threats through swarm systems</li> <li>- Upcoming launches and lessons learned</li> </ul> <p><i>Paul Febvre, CTO, Satellite Applications Catapult</i></p>
14:40	<p>Technology trends for small terminals</p> <ul style="list-style-type: none"> <li>- Analysing the industry shift towards very small aperture terminal (VSAT)</li> <li>- Man-Portable Data Terminal (MSAT) for rapid deployment</li> <li>- Trends in antenna technology for small terminals</li> </ul> <p><i>Chris Dalton, Director of Product Management, Vislink</i></p>
<b>15.20</b>	<b>Chairman's Closing Remarks</b>
<b>15.30</b>	<b>Close of Conference</b>