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Digital Defence, Security & Policing Digest

May 2017

Executive Summary:

This digest presents an abridged thematic assessment of key security and counter-terrorism debate in the United Kingdom in May 2017, along with key conference information and news from the UK security industry.

The shocking terrorist attack in Manchester on May 22nd dominated the news agenda in the latter part of the month. The short but highly significant elevation of the UK terrorism threat level from Severe to Critical and the invocation of Operation Temperer underscored the significant risks posed by domestic and transnational Islamist extremism.

Counter-terrorism response featured in political and public discourse as campaigning for the June 8th general election restarted after the Manchester bombing. Competing narratives on the causes of (and optimal response to) the terrorist threat were offered by the major political parties and other commentators. The ethics and efficacy of the UK's PREVENT strategy was debated, as was the ability of the security services and counter-terrorism police to monitor terrorist suspects within the UK as well as those attempting to return from conflict zones in Libya, Iraq and Syria.

The WannaCry ransomware attack caused significant global impact with extensive outages experienced by the National Health System (NHS). This raised important questions about the protection of patient data, appropriate IT funding levels for public services and business continuity preparedness. The genesis of WannaCry was attributed to exploits developed by the US National Security Agency raising questions about the ethics and controls applied to 'government malware'.

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Contents

Key Reports and Guidance Published in May

A particularly interesting report from the Northern Ireland Affairs Committee on support for UK victims of Libyan sponsored IRA terrorism [1] was published on May 2nd. Given the link between Libya and the Manchester Arena bomber, Salman Abedi [2] the historical Libyan context (Gaddafi's support for the IRA, the killing of WPC Yvonne Fletcher [3], the attack on Pan Am Flight 103 over Lockerbie etc.) cannot go unnoticed.

Other key reports included:

- [April 25th]: Latest Project FALCON (Fraud and Linked Crime Online) briefing
- [April 28th]: Update to HMG CONSOLIDATED LIST OF FINANCIAL SANCTIONS TARGETS IN THE UK [4]
- [May 1st]: Home Affairs Select Committee: "Hate crime: abuse, hate and extremism online" [5]
- [May 2nd]: Northern Ireland Affairs Committee: HM Government support for UK victims of IRA attacks that used Gaddafi-supplied Semtex and weapons (Fourth Report of Session 2016–17) [1]
- [May 3rd]: Proscribed terrorist groups or organisations (updated list), Home Office
- [May 4th] British forces air strikes in Iraq and Syria: monthly list, Ministry of Defence
- [May 8th]: Financial sanctions, ISIL (Da'esh) and Al-Qaida organisations, HM Treasury and Office of Financial Sanctions Implementation
- [May 11th]: New partnership for Somalia for peace, stability and prosperity, DIFID, FCO, MoD
- [May 11th]: Overseas Business Risk – Mozambique, FCO
- [May 12th]: Cloud software services: how schools should protect data, Dept. for Education
- [May 15th]: Supporting Refugees and Their Host Communities in the Horn and East Africa, DIFID & FCO
- [May 16th]: Overseas Business Risk – Angola, FCO
- [May 17th]: Security Situation Statistics for Northern Ireland, period ending 31 March 2017, PSNI
- [May 18th]: MOD National and Official Statistics by topic, Ministry of Defence

- [May 18th]: Royal Navy and Royal Marines quarterly pocket brief: 2017, Ministry of Defence
- [May 19th]: Accelerator themed competition: revolutionise the human information relationship for Defence, Defence and Security Accelerator
- [May 19th]: Internet users in the UK, 2017, Office for National Statistics
- [May 23rd]: Bloodborne viruses: managing risk in bomb blast victims, Public Health England
- [May 25th]: Financial Sanctions, Central African Republic, HM Treasury
- [May 25th]: Armed forces continuous attitude survey 2017, Ministry of Defence
- [May 25th]: MoD Diversity Dashboard 2017, Ministry of Defence
- [May 26th]: Advice for security managers to improve your security stance, National Counter Terrorism Security Office
- [May 26th]: Overseas Business Risk, Mexico, FCO
- [May 26th]: Police and Criminal Evidence Detection (PACE) statistics for Northern Ireland 2016/17, PSNI
- [May 29th]: Overseas Business Risk, Dominican Republic, FCO

Key Industry Events held in May

The Security and Counter Terror Expo in London Olympia was the signature event in May. Other significant cybersecurity conferences underscored the seemingly escalating risks of cyber-attacks and cyber terrorism to both private and public-sector organisations. This was particularly relevant to the National Health Service and organisations across the globe as they fell victim to WannaCry ransomware, [6] an unprecedented assault on legacy and unpatched IT systems.

Other key events included:

- Security and Counter Terror Expo, London Olympia, 3-4 May, Twitter @ct_expo, hashtag #SCTX17
- Launch of Armed Conflict Survey (Book Launch), Arundel House, London, 9th May, Twitter @IISS_org
- 2nd International Conference on Business and Cyber Security, Holiday Inn, Regents Park, London, 15thMay
- Global Cybersecurity Innovation Summit, The British Museum, London, May 16-17

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- Police Federation Annual Conference, Birmingham, May 16-17
- Public Sector Cyber Security Conference: Defending the Public from Cyber-Attacks, Old Trafford, Manchester, May 17th
- Counter UAS, Hilton London Olympia, 23-25 May
- Unmanned Maritime Systems Technology, London, 24-25 May
- Daily Telegraph Cybersecurity Conference, IET, London, May 25th

Looking Ahead (June 2017):

The funerals of victims of the Manchester Arena bombing will undoubtedly generate significant media interest and debate. Ariana Grande will play a 'benefit concert' [7] to raise funds for the victims on Sunday June 4th.

In the wake of the Manchester Arena bombing and renewed discussion about the effectiveness of PREVENT and the UK's approach to counter-radicalisation, the forthcoming Countering Violent Extremism Conference in London on June 20th to 22nd is important. Debate concerning the efficaciousness of PREVENT and its perceptions among certain communities and demographics is highly relevant [8]. Some political commentators have gone so far as to label PREVENT 'toxic' [9]. The Labour Mayor of Greater Manchester Andy Burnham has criticised PREVENT, a position that may face increased scrutiny. [10] Interesting counterpoint was offered by Khalid Mahmood writing in the Express. [11] Mahmood, Labour candidate for Birmingham Perry Bar provides a compelling argument for greater Muslim community engagement in counter-radicalisation initiatives.

As investigations continue into the Manchester Arena bombing and other terrorism plots in the UK, there will be extensive interest in unfolding investigations and progress on criminal prosecutions. The counter-terrorism operation against an alleged network of female Jihadists in Willesden [12] is likely to re-gain media attention, as will MI5's continuing internal investigation into intelligence, risk assessment and monitoring of Salman Abedi and his likely accomplices. [13]

As Operation Temperer comes to an end there will be debate about the role of the military in domestic counter-terrorism operations and the effectiveness of military counter-terrorism techniques within this context. Public perceptions of safety, policing and the necessity of military backup will influence narratives.

Counter-terrorism response will continue to shape political debate in the run up to the general election on June 8th. There are clearly divided political opinions on both the causes of terrorism and how to effectively respond to the threat and aftermath of terrorist outrages. This was perhaps most notable in the speech given by Labour leader Jeremy Corybn on May 26th in which he outlined his views on the failures of the 'War on Terror'. [14] The Labour leader will continue to face questions over the nature of historical 'associations' with groups such as Sinn Fein, the Provisional IRA and Hamas. [15]

Critical debates about effective use of funding and resources and counter-terrorism powers and legal frameworks will continue, as underscored in this recent article [16] by Max Hill QC (the government's independent reviewer of terrorism legislation).

The alleged leaking of information to the press [17] by members of US intelligence caused significant political difficulties in May. The 'special relationship' was quickly re-established and impacts on intelligence sharing and co-operation seem unlikely to go beyond harsh diplomatic scolding. As President Trump returns from the Middle East, renewed focus on Russia and the US Presidential election will reignite [18], with possible ramifications for US defence and security partners.

Debates will continue about the resilience of public and private sector organisations to cyber-attack by criminals and cyber terrorists in the wake of WannaCry ransomware incidents. Risks of targeted cyber-attack during the general election campaign cannot be discounted. [19]

Social media and other internet companies will face continued pressure to remove online extremist material. In the transnational context, this will continue to pose significant challenges. End-to-end encryption and messaging services such as WhatsApp are likely to continue to face pressure to provide decryption capabilities to intelligence services and law enforcement [20]. Privacy versus security debates are likely to feature significantly in public discourse.

Debate will continue about the management of refugees transiting through North Africa, with a focus on the exodus of foreign Jihadists from the conflicts in the Levant. Debate over the utility of Temporary Exclusion Orders (TEOs) is relevant given an obvious lack of use to date. [21] The security situation in Egypt may deteriorate with attacks against the Coptic Christian minority [22] increasing in frequency and scale since Easter [23], characteristic of similar cycles of attacks in 2013 [24].

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The outcome of the general election on June 8th will be an important determinant for future defence and security policy. The security of post-BREXIT Britain will be debated in this context.

InfoSec Europe on June 6th to 8th will be a showcase event for the cyber security Industry. Expect significant trade press coverage including "Securing the Internet of Things" and innovation in cyber protection, including the increasing prevalence of Artificial Intelligence and Machine Learning. At the end of the month, the Cyber 2017 conference at Chatham House is a key event for policy makers and cyber influencers. The annual Royal United Services Institute (RUSI) land warfare conference (June 27th to 28th) will bring together senior figures from the armed forces, along with academics and public servants to explore key trends in modern warfare.

Important industry events in June include:

- InfoSec Europe, London Olympia, 6-8 June
- Electronic Warfare Europe, London Olympia, 6-8 June
- Digital Connectivity & Cybersecurity Seminar, Hamilton Place, London, June 7th
- Modernising Justice Through Technology, Innovation and Efficiency, London, June 8th
- London Tech Week (various security related events), London, 12-16 June
- International Conference on Cyber Situational Awareness, Data Analytics and Assessment (CyberSA 2017), London, 19-20 June
- Port Security Technology, London, 19-20 June
- Countering Violent Extremism, Open Source Intelligence, Social Media & Strategic Communications, London, 20-22 June
- IFSEC International, ExCel, London, 20-22 June
- Police Strategy Forum, Oxfordshire, 20-21 June
- IoT (Internet of Things) Global Congress, London, June 21-22
- Cyber 2017, Chatham House, London, 26-27 June
- Public Sector Show, ExCel, London, 27th June
- UK tech post-Brexit: investment, influence and policy priorities, London, 27th June
- RUSI Land Warfare Conference, Church House, London, 27-28 June
- Future Armoured Vehicles Weapon Systems, London, 28-29 June

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Thematic Assessments

Policing & Domestic Counter-terrorism

A suicide bomb attack on the Manchester Area on Monday 22nd May left 22 concert goers dead and injured dozens, some critically. Salman Abedi a British national of Libyan descent was quickly identified as the perpetrator [2]. The modus operandi of the attack indicated that Abedi had not acted alone. In a 'race against time', the security services and police sought to capture and disrupt Abedi's network. The UK threat level increased from Severe to Critical [25] and as part of a well-rehearsed response, troops were deployed as part of Operation Temperer to guard key sites and critical national infrastructure. The Home Secretary, Amber Rudd, welcomed news of an internal investigation [13] by the security services into the handling of intelligence on Abedi. Stories emerged about the Abedi family in Libya [26] and links to the al-Qaeda affiliated Libyan Islamic Fighting Group. In the aftermath of the attack there was extensive debate about the effectiveness of the UK government's PREVENT strategy with widely differing views and opinions expressed about the cause of and appropriate response to terrorism threats. Campaigning in the general election was suspended as a mark of respect for the victims of the attack and their families. On its recommencement, Labour Leader Jeremy Corbyn delivered a speech criticising the 'War on Terror' and UK foreign policy [14]. This met with aplomb in some quarters but was dismissed as "twisted thinking" by others [27]. With significant arrests made, primarily around Greater Manchester [28], the Joint Terrorism Analysis Centre (JTAC) advised downgrading of the UK treat level from Critical to Severe. Following the spring bank holiday, this led to a recall of troops. In Northern Ireland, Sinn Fein representatives refused to condemn the 1996 IRA bombing of Manchester [29] intimating that this was somehow part of 'Just War'.

Questions over internment and deportation of terrorist suspects were raised by seasoned commentators including Col. Richard Kemp [30] and (former Metropolitan Police Assistant Commissioner) Tarique Ghaffur. [31] Lessons learned from the use of internment in Northern Ireland in the 1970s does however suggest 'draconian' measures are likely to exacerbate grievances,

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perpetuate and potentially escalate violent conflict. Internment may be tactically beneficially, yet prove strategically disastrous.

Brendan Duddy [32] who played a central role in the Northern Ireland peace process died aged 80. He acted as a conduit for secret negotiations between the British government and the IRA for several decades. Duddy brokered meetings with former Secret Intelligence Service (SIS) officer Sir Michael Oatley and leading members of the Irish republican movement, including former IRA chief, Martin McGuiness. Duddy's contacts with republicans and the British government is well described in Jonathan Powell's book Great Hatred, Little Room. [33] Duddy's contribution to the peace process was undeniably extensive. Powell in his later book Talking to Terrorists, How to end Armed Conflicts [34] explores important moral and ethical questions relating to peace negotiations with terrorist groups and their political representatives.

Further details emerged about Khalid Mohamed Omar Ali, arrested in a counter-terrorism operation near Westminster on April 27th. The suspect was detained carrying knives. It was reported that Omar Ali participated in a Gaza aid convoy in 2010. [35] He claimed to have been the subject of a prior recruitment attempt by the UK security services. [36]

A separate counter-terrorism operation in Willesden led to the shooting of a female suspect, who was subsequently arrested in hospital. [12] In follow up investigations, a further three female suspects were detained. [37] An unusual aspect of these linked detentions is the number of female suspects, hinting at the possibility of an exclusively female terrorist cell.

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Countering Violent Extremism (CVE) Online

In early May, a report from the Commons Home Affairs Select Committee [5] "Hate crime: abuse, hate and extremism online" accused social media companies including Twitter and Facebook of failing to address online hate crime and terrorist propaganda. [38] The situation worsened for the internet companies, as online extremism became a central agenda item for Theresa May at the G7 summit in Sicily. [39] The British Prime Minister called on other G7 leaders to do more to combat online extremism, characterising the 'internet as a battlefield.' [40] Minister of State for Security, Ben Wallace pulled few punches in his criticism of the internet giants [41].

The ability of companies including Facebook, Google and Twitter to deal with the magnitude of the challenge raises important questions. Is it as some suggest [42] 'Mission Impossible?' With billions of users, extremely large volumes of information, definitional grey space in terms of what constitutes 'extremist material' and immature global governance and regulation of cyber space, is this battle simply unwinnable? Some solace may be found in re-examining the technological history of the last decade. Was it imaginable 10 years ago that Facebook and Twitter would scale to multi-billion user pan-global platforms? Vanguard users of Twitter in 2007 (experiencing regular outages) would have had significant doubts. The digital technology revolution (not least cloud computing) was a response to the challenge of developing massively scalable, massively distributed systems. Increasing maturity of Artificial Intelligence and Machine Learning may be the necessary response to the 'social media moderation' challenge. Looking 10-years ahead it certainly seems imaginable that greatly improved algorithms and automation capabilities will neutralise (or vastly minimise) the task at hand. Charles Arthur writing in the Guardian offers interesting thoughts on additional measures that could be taken, including changing the economic and social motivations of internet giants. [43] Arthur rightly highlights that blocking 'internet services at the border' is a blunt instrument reserved for the censorious. This is a particularly salient point in light of free-speech and internet debate in Turkey where the government blocked access to Wikipedia, citing defamatory anti-government 'editorialisation' of articles. [44]

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The question of the Dark Web and the rise of dark-social platforms must also be considered. Exploitation of the Dark Web is clearly on the agenda of Islamic State and other terrorist actors. If successful, they will effectively circumvent efforts to close down use of mainstream services. [45] Driving the threat down into the Dark Web may help protect mainstream 'audiences' from exposure. It will however require increased technological capabilities in law-enforcement and other security agencies to ensure it can be robustly monitored and countered.

A multi-government, multi-agency response is clearly needed and a recent Europol crackdown targeting thousands of items of online extremism [46] provides some optimism.

Cyber Security & Counter Cyber-terrorism

The global WannaCry ransomware attack raised serious concerns about legacy IT systems and underfunding of cyber security [47]. The source of the WannaCry attack was debated, with theories ranging from hostile foreign governments and criminal actors in North Korea, Russia and China [48]. Theft of the exploit from the US National Security Agency raises concerns [49], [50]. The NHS was particularly affected although it was readily apparent that the attack was global in nature and not a targeted against the UK NHS [51]. Statistics from Kryptos Logic suggested China had been hardest hit. [52] Discovery of a kill-switch in the WannaCry code assisted in its containment and damage limitation [53]. WannaCry bitcoin accounts netted circa $70,000, highlighting that some ransoms were paid, but overall the financial reward to the perpetrators was paltry. [54] The true cost of the attack in lost productivity and public confidence however is extremely high. Reassurances were sought from the UK Defence Minister Sir Michael Fallon that the UK's nuclear submarine fleet was not exposed to similar risks. [55] This raises questions about protection of critical infrastructure, including civil nuclear, from similar attack. Carian Martin from GCHQ gave a very interesting interview to Wired Magazine discussing cyber security threats from hostile foreign governments, transnational criminal and terrorist actors [56].

UK security services successfully accessed WhatsApp messages sent by Khalid Masood prior to the terrorist attack on Westminster Bridge and Parliament. [57] Despite the success, delays in accessing the messages could have hampered speed of investigation, thereby increasing the risk to the public from additional outrages.

Cyber terrorist Samata Ullah was jailed for collation and distribution of Jihadist 'self-help' materials which he concealed in USB cufflinks. [58] Ullah, operating from a bedroom in Wales provided online terrorist training materials world-wide. His arrest demonstrates the diversity of threat actors in the cyber domain. The complexity of dealing with online threats was further illustrated by reports from Europol that extremists had begun setting up their own internet services. [59] Other innovations include the use of gift cards [51] as a means of terrorism financing.

British Airways suffered a major global IT systems failure [60]. Flights were effectively grounded at Heathrow and Gatwick for several days during the spring bank holiday weekend. No evidence of a cyber-attack has been suggested. The impact of the outage highlights however the complexity, interconnectivity and fragility of modern business systems. Robust business continuity / disaster recovery capabilities and well-planned and regularly drilled disruption management processes are the necessary response.

Brexit, Domestic and European Security Implications

A central thread in political discourse in the UK and across Europe is post-BREXIT security. Former leader of the Liberal Democrats, Nick Clegg claimed that the UK will lose access to Schengen Information System (SIS) II systems on leaving the European Union. [61] Security experts have advised Prime Minister Theresa May of the need to ensure continued access to intelligence databases after Brexit [62]. Alternative views suggest that there will be little or no impact on UK intelligence capabilities. [63] Britain's role in transnational European policing structures and organisations such as Europol are important considerations. Czech officials have highlighted the need for ongoing security co-operation across Europe to tackle terrorist networks and organised crime [64], a sentiment shared across EU member states.

A key analysis report from the RAND Corporation, Defence and Security after Brexit: understanding the possible implication of the UK's decision to leave the EU is an excellent source for further critical evaluation. The report discusses a broad range of issues including counter-terrorism and organised crime, migration and border security, defence spending and research, and Scotland and the nuclear deterrent. Key findings of the report include "Defence may be less immediately affected by Brexit than areas such as labour policy or trade. Much international defence cooperation takes place through NATO or bilaterally — as will remain the case after the UK leaves the EU [65]."

Following the election of French President, Emmanuel Macron, the future of the Le Touquet agreement [66] was raised. Under this agreement, Britain operates a juxtaposed border on French soil. A resurgence of migrant activity around the French port of Calais has been reported [67] raising questions about effective (yet proportionate) border security management pre and post-Brexit.

Coverage of the 20th anniversary of the election of former British Prime Minister Tony Blair focused on the legacy of the Iraq war and its effect on international terrorism. Blair confirmed his return to front line, anti-Brexit politics [68] suggesting that the UK would want to re-join the EU [69]. John Wright's article [70] in Russia Today (RT) offered a particularly stinging assessment of Blair's return.

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Appendix A

Defence, Security and Policing Conferences, UK 2017

Calendar of key events in 2017

January

For 2018 dates see:

- Cyber Defence and Network Security, London
- Cyber Security Exchange FS, London
- DGI, Geospatial Intelligence for National Security, London

February

For 2018 dates see:

- Hereford Defence & Security Expo

March

For 2018 dates see:

- Gartner Identity and Access Management Summit, London
- World Cybersecurity Congress, London
- Cloud Expo Europe (including Cloud Security), London
- DPRTE (Defence Procurement, Research, Technology & Exportability), Cardiff
- Future Soldier Technology, London
- Underwater Defence and Security, Portsmouth
- Security and Policing, Farnborough

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April

For 2018 dates see:

May

- Security and Counter Terror Expo, London Olympia, 3-4 May
- OWASP AppSec EU, Belfast, 11-12 May
- 2nd International Conference on Business and Cyber Security, Holiday Inn, Regents Park, London, 15th May
- Global Cybersecurity Innovation Summit, The British Museum, London, May 16-17
- Police Federation Annual Conference, Birmingham, May 16-17
- Public Sector Cyber Security Conference: Defending the Public from Cyber-Attacks, Old Trafford, Manchester, May 17th
- Counter UAS, Hilton London Olympia, 23-25 May
- Unmanned Maritime Systems Technology, London, 24-25 May
- Daily Telegraph Cybersecurity Conference, IET, London, May 25th

June

- InfoSec Europe, London Olympia, 6-8 June
- Electronic Warfare Europe, London Olympia, 6-8 June
- Digital Connectivity & Cybersecurity Seminar, Hamilton Place, London, June 7th
- Modernising Justice Through Technology, Innovation and Efficiency, London, June 8th
- London Tech Week (various security related events), London, 12-16 June
- International Conference on Cyber Situational Awareness, Data Analytics and Assessment (CyberSA 2017), London, 19-20 June
- Port Security Technology, London, 19-20 June
- Countering Violent Extremism, Open Source Intelligence, Social Media & Strategic Communications, London, 20-22 June
- IFSEC International, ExCel, London, 20-22 June
- Police Strategy Forum, Oxfordshire, 20-21 June

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- IoT (Internet of Things) Global Congress, London, June 21-22
- Cyber 2017, Chatham House, London, 26-27 June
- Public Sector Show, ExCel, London, 27th June
- UK tech post-Brexit: investment, influence and policy priorities, London, 27th June
- RUSI Land Warfare Conference, Church House, London, 27-28 June
- Future Armoured Vehicles Weapon Systems, London, 28-29 June

July

- The Cybersecurity Summit, London, July 4th
- PCI London, July 5th
- Cityforum Cybersecurity Round Table, supported by the National Cyber Security Centre, London, July 11th
- The International Security and Intelligence Programme and Conference, Cambridge, 17th July – 11th August

August

- Military Radar, London, 22-24 August

September

- Information Security Network, Reading, 11-12 September
- Defence and Security Equipment International (DSEI), Excel, London, 12-15 September
- 44Con, London, 12-13 September
- CBI Cyber Security Conference, London, 13 September
- Gartner Security and Risk Management Summit, London, 18-19 September
- 4th Annual Industrial Control Cyber Security Europe Summit, London, 19-20 September
- Internal Threat, London, 19-20 September
- Securing the Law Firm, London, 21st September
- Military Airlift, London, 26-28 September
- Defence Exports Conference, London, 27-28 September

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- Wired Security, Kings Place, London, 28th September

October

- 3rd Annual Securing Online Gaming, London, 3rd October
- IP Expo Europe, Excel, London, 4-5 October
- Cybersecurity for Critical Assets (CS4CA) Europe, London, 4-5 October
- Forrester Privacy & Security Europe, London, 5-6 October
- Excellence in Policing Conference, Coventry, 11-12 October
- UNISON Police and Justice Conference, Llandudno, 12-14 October
- Cybersecurity EU 2017, Leeds, 18th October
- 9th e-Crime and Information Security Mid-Year Summit, London, 19th October
- Security Cleared Expo, QEII Centre, London, 24th October
- Airborne ISR Conference, London, 25-26 October
- The National Security Summit, London, 25th October
- CSX Europe, London, 30th October – 1st November

November

- The Future of Cybersecurity, London, 9th November
- Big Data LDN, London Olympia, 15-16 November
- Cyber Threat Intelligence & Incident Response, London, 15-16 November
- Smarter Border Management, London, 28-29 November
- UK Security Expo 2017, London Olympia, 29-30 November

December

- Black Hat Europe, London, 4-7 December
- Ideas in Practice Conference - Police Mobile Information – Technology, Operations and Implementation, London, 5th December
- Social Media in the Defence and Military Sector, London, 6-7 December

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Defence, Policing and Security Organisations and Initiatives

For further reference / research:

- Action Counters Terrorism
- ADS
- Association of Police and Crime Commissioners
- British American Security Information Council
- Bond
- Border Force
- City of London Crime Prevention Association
- City of London Police
- College of Policing
- Counter-terrorism Command (Metropolitan Police)
- Counter-terrorism Internet Referral Unit
- Centre for the Protection of National Infrastructure (CPNI)
- CST
- Cyber Security Research (Chatham House)
- Department for Exiting the European Union
- Department for International Development

- Defence Chemical Biological Radiological and Nuclear Centre
- Defence Industry Security Association
- DefenceIQ
- Defence Science and Technology Laboratory (DSTL)
- Defence Select Committee
- Digital Marketplace (G-Cloud)
- Digital Outcomes & Specialists 2
- Docklands Victims Association
- Experience IMPACT
- EU Internet Referral Unit
- Europol
- Foreign Travel Advice
- Forensic and Policing Services Association
- Global Cyber Alliance
- Home Affairs Select Committee
- Information Security Europe
- International Institute for Counter-terrorism
- International Institute for Strategic Studies
- IoT (Internet of Things) Security Foundation

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- Janes
- Joint Forces Command
- Joint Terrorism Analysis Centre (MI5)
- Metropolitan Police
- Ministry of Defence
- National Crime Agency
- National Counter Terrorism Security Office
- National Police Chiefs' Council
- NATO
- NATO Allied Joint Force Command
- Niteworks
- Northern Ireland Affairs Committee
- Northern Ireland Policing Board
- Police Federation
- Police ICT
- Police Oracle
- Police Service of Northern Ireland (PSNI)
- Project Argus
- Project Griffin
- Rail Cybersecurity
- Research Cloud, R-Cloud
- Royal Air Force
- Royal Navy
- Royal Ulster Constabulary George Cross Foundation
- Royal United Services Institute (RUSI)
- SANS Institute
- Security and Counter Terror Expo
- SINET (Security Innovation)
- Society of IT Practitioners in the Public Sector (SOCITM)
- Stabilisation Unit (UK Government)
- TellMAMA
- The National Cyber Security Centre
- The Police Foundation
- The Whitehall and Industry Group
- UK Counter-terrorism Commentary (RUSI)
- UK counter-terrorism policy (UK Government)
- UK National Defence Association
- Victims and Survivors Service (N. Ireland)
- Westminster Forum Projects

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Academia: Research on Defence, Security and Policing

For further reference / research:

- Centre for Intelligence and International Security Studies, University of Aberystwyth
- Center for International Security and Cooperation, Stanford University
- Center for Security Studies, Georgetown University
- Defense/National Security, Harvard Kennedy School (John F. Kennedy School of Government)
- Department of International Relations, London School of Economics
- Department of War Studies, Kings College London
- Global Terrorism Database, University of Maryland
- Information Security Studies, Royal Holloway, London
- John Grieve Centre for Policing and Community Safety
- Mapping Militant Organizations, Stanford University
- The Handa Centre for the Study of Terrorism and Political Violence

Defence, Security and Policing Strategy & Policy

For further reference / research:

- A Secure Europe in a Better World, European Security Strategy, 2003
- Britain's Security: Labour's Defence Policy Review, January 2016
- CONTEST, UK Counter-terrorism Strategy
- Defence Information Strategy, MoD/JFC, 2016
- Defence Policy, UK Parliament
- DIFID, Single Departmental plan: 2015-2020
- Digital in Defence, MoD, 2012
- National Security Strategy and Strategic Defence and Security Review, 2015
- ONE MET, Digital Policing Strategy 2017-2020, Metropolitan Police
- Peace and Stability in the Middle East and North Africa, DIFID
- Policing 2026, Police Scotland
- Policing Vision 2025, National Police Chiefs' Council
- Police Service of Northern Ireland (PSNI) annual policing plan, 2016-17
- Stabilisation Unit Business Plan 2016-2020, UK Government
- Strategic Policing Requirement, Policy Paper, UK Government
- UK Digital Strategy, UK Government
- United States National Security Strategy, Feb 2015

Defence, Security and Policing Journals & Magazines

For further reference / research:

- Behavioural Sciences of Terrorism and Political Aggression
- Blogs of War
- Critical Studies on Terrorism
- CTC Sentinel – Combating Terrorism Center, West Point
- CTX (Combating Terrorism Exchange) Journal
- Defence Academy Journal
- Defence Contracts Bulletin
- Defence Journal
- Defence Procurement International
- Defence News
- E-International Relations
- Forbes Tech / Security
- Foreign Affairs Magazine
- Global Defence Technology Magazine
- Government Computing
- International Journal of Cyber Warfare and Terrorism
- Journal of Bioterrorism & Biodefense
- Journal of Policing, Intelligence and Counter Terrorism
- Journal of Strategic Studies
- Long War Journal
- Perspectives on Terrorism
- Policing and Society: An international journal of research and policy
- Policing: A Journal of Policy and Practice
- Professional Security Magazine
- RUSI Journal
- Schneier on Security
- Security Studies
- Small Wars Journal
- Soldier Magazine (British Army)
- Studies in Conflict and Terrorism
- Terrorism and Political Violence
- The Journal of Defense Modeling and Simulation: Applications, Methodology, Technology
- The National Interest
- The Police Journal – Theory, Practice and Principles
- UK Defence Journal
- War on the Rocks
- When IT Meets Politics

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Defence, Security and Policing Correspondents

For further reading and analysis:

- Ewen MacAskill, Defence Correspondent, the Guardian
- David Bicknell, Editor, Government Computing
- Alistair Bunkall, Defence Correspondent, Sky News
- Robert Fox, Defence Correspondent, Evening Standard
- Frank Gardner, Defence Correspondent, BBC
- Marco Giannangeli, Defence and Diplomatic Editor, Sunday Express
- Deborah Haynes, Defence Editor, The Times
- Thomas Harding, Defence Correspondent, Daily Telegraph
- Chris Hughes, Defence and Security Editor, Daily Mirror
- Rohit Kachroo, Security Editor, ITV News
- Richard Kerbaj, Security Correspondent, the Sunday Times
- Sam Kiley, Foreign Affairs Editor, Sky News
- Mark Nicol, Defence Correspondent, Daily Mail
- David Pratt, Foreign Affairs Editor, The Herald
- Kim Sengupta, Defence Correspondent, the Independent
- David Snelling, Online Technology Editor, Express
- Matthew Symonds, Defence and Security Editor, the Economist
- Loren Thompson, National Security & Business, Forbes
- John Thornhill, Innovation Editor, FT
- Mark Urban, Diplomatic and defence editor, Newsnight (BBC)
- David Willetts, Defence Editor, the Sun

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Appendix B

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