Security Network
Munich

**SECURITY NETWORK MUNICH**
PRESENTS

# MCSC

MUNICH CYBER SECURITY
CONFERENCE **2022**

**DIGITAL EDITION**

## Drifting Clouds –
## Leadership Perspectives on Addressing Evolving Cyberthreats

Munich, 17 February 2022, 2:00-6:15 p.m. CET

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# MUNICH CYBER SECURITY CONFERENCE (MCSC) 2022 – DIGITAL EDITION

## Drifting Clouds –
## Leadership Perspectives on Addressing Evolving Cyberthreats

| 2:00–2:25 p.m. | **Welcome** | **Ralf Wintergerst**<br>Chairman of Security Network Munich and Group CEO Giesecke+Devrient (Munich) |
|---|---|---|
| | **Keynote Speeches** | **Margaritis Schinas**<br>Vice-President EU Commission (Brussels) |
| | | **Jen Easterly**<br>Director CISA (Washington D.C.) |
| 2:25–3:15 p.m. | **First Panel:**<br>Mitigating Challenges In An Evolving Cyberthreat Landscape<br><br>**Moderator: Kiersten Todt**<br>Chief of Staff CISA<br>(Washington D.C.) | **Lindy Cameron**<br>CEO National Cyber Security Centre (London)<br><br>**Arne Schönbohm**<br>President Federal Office for Information Security BSI (Bonn)<br><br>**Benjamin Ang**<br>Senior Fellow Center of Excellence for National Security (Singapore)<br><br>**Péter Szász**<br>Deputy Director National Cyber Security Centre (Budapest)<br><br>**Margiris Abukevicius**<br>Vice Minister of National Defence of the Republic of Lithuania (Vilnius) |
| 3:15–3:20 p.m. | **Coffee break** | |
| 3:20–4:05 p.m. | **Second Panel:**<br>Scaling Trust and Cyber Resilience in Supply Chains (of SMEs)<br><br>**Moderator: Alpha Barry**<br>Founder and CEO of secida<br>(Dortmund) | **Axel Deininger**<br>CEO secunet and Chairman of ECSO (Munich)<br><br>**George Stathakopoulos**<br>VP of Corporate Information Security Apple (Cupertino)<br><br>**Arvid Rosinski**<br>CISO Audi (Ingolstadt)<br><br>**Phil Venables**<br>CISO and VP Google Cloud (Mountain View) |
| 4:05–4:10 p.m. | **Tea time** | |

| Time | Session | Speaker |
|---|---|---|
| **4:10–4:20 p.m.** | **Insight View** | **Jürgen Stock**<br>Secretary General Interpol (Lyon) |
| **4:20–4:50 p.m.** | **Spot on:**<br>Between a Rock and a Hard Place –<br>Anticipating Future Cybersecurity<br>Challenges | **General David H. Petraeus**<br>Partner KKR (New York)<br><br>**Alex Stamos**<br>Director Stanford Internet Observatory (San Francisco) |
| | **Moderator: Stormy Mildner**<br>Executive Director Aspen Institute<br>Germany (Berlin) | **Jeff Moss**<br>Founder Black Hat and DEFCON Conference Series<br>(Seattle) |
| **4:50–4:55 p.m.** | **Coffee break** | |
| **4:55–5:20 p.m.** | **Keynote** | **Lisa O. Monaco**<br>Deputy Attorney General U.S. DoJ (Washington D.C.) |
| | **Moderator: Gordon Corera**<br>BBC (London) | |
| **5:20–6:05 p.m.** | **Transatlantic View:**<br>Government Cybersecurity Priorities | **Dmitri Alperovitch**<br>Co-Founder of CrowdStrike & Silverado Policy<br>Accelerator (Washington D.C.) |
| | **Moderator: Ellen Nakashima,**<br>National Security Reporter<br>Washington Post (Washington D.C.) | **Robert Silvers**<br>Under Secretary for Strategy Policy and Plans DHS<br>(Washington D.C.)<br><br>**Tonya Ugoretz**<br>Deputy Assistant Director FBI (Washington D.C.)<br><br>**Jaak Tarien**<br>Director NATO Cooperative Cyber Defence Centre of<br>Excellence (Tallinn) |
| **6:05–6:15 p.m.** | **Vantage Point:** | **Georg Eisenreich**<br>State Minister of Justice Government of Bavaria (Munich) |

For this edition of MCSC we asked distinguished Experts
to offer their perspective on this year´s topic
**"Drifting Clouds – Leadership Perspectives on Addressing Evolving Cyberthreats"**
and created a series of interviews which can be watched online: **www.it-security-munich.net.**

Please meet the **MCSC Talking Heads**:

**Kevin Jones,** CISO Airbus Group
**Christopher Ahlberg,** Co-Founder and CEO Recorded Future
**Christopher Krebs,** Partner KS Group
**Greg Lavender,** CTO Intel Corporation
**Massimo Mercati,** Head of ESA Security Office European Space Agency ESA
**Bentsi Ben-atar,** Co-Founder and CMO Sepio
**Joe Hubback,** Managing Director Istari EMEA
**Andy Purdy,** CSO Huawei Technologies USA
**Michael Beaupre,** Security Advisor and  former Global CISO at Merck

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## Steve Durbin

CEO Information Security Forum ISF

Steve Durbin is Chief Executive of Information Security Forum. He is a frequent speaker on the Board's role in cybersecurity and technology.

# Three Ways to Secure Unstable Supply Chains

Pandemic pressure has stretched and strained supply chains, forcing businesses to rapidly identify and build new routes, form fresh partnerships, and ensure a steady flow of product. The need to keep production lines running in difficult circumstances has unfortunately led many organizations to sideline information security as a priority.

There's a tangible danger that must be addressed to avoid catastrophic data breaches in the year ahead. Here are three steps to help secure supply chains under pressure.

**Identify the risks**

A high proportion of security incidents originate with third-party vendors and suppliers, and while a focus on production and distribution is understandable, no company can afford to ignore security. Delays in planning caused by remote working and pandemic disruption are exacerbating the situation, creating new opportunities for bad actors to worm their way in.

Make an in-depth evaluation of supply chain partners to better understand what information is being shared, and with whom. Build a clear and comprehensive picture of your data, and cross-reference it with business goals to understand where unnecessary risks remain. Areas of disproportionate risk, where information sharing isn't critical to the business, should be reconsidered.

Deeper integration of supply chains is desirable, so strive for real-time visibility and more effective collaboration. To make informed decisions on mitigating supplier vulnerabilities, risk management should be baked into technologies that provide oversight.

**Build security requirements into supplier contracts**

Contract negotiation can be complex and protracted and too often security takes a back seat, perceived as a barrier to reaching an agreement. Retroactively applying security standards can be challenging. Avoid building a secure and compliant framework under severe time pressure – that can spell disaster.

Before contracts go to tender, be sure to include security professionals early in the process. Lay out precisely what information you need from suppliers, and what processes they'll be expected to abide by.

When requirements are clearly defined upfront it can help to streamline negotiations, enabling agreements to be reached. Clarity is key with contracts, so provide guidance for different eventualities and enumerate recommended steps to benefit all parties.

**Establish real-time visibility into risk**

As business aims change, new technologies emerge with their own set of vulnerabilities; risk assessments age and begin to deteriorate. Merely a snapshot of supply-chain risk isn't enough to build a secure framework. You need to establish continuous monitoring to ensure a real-time view of emerging threats and potential disruptions.

While it may not be viable to perform in-depth audits repeatedly, there are automated tools that can be employed to flag developing security threats and to get ahead of any issues that may develop into stubborn problems. Consider what information is required to rate your supplier's security standards and try to establish a reporting framework that can furnish you with the latest data.
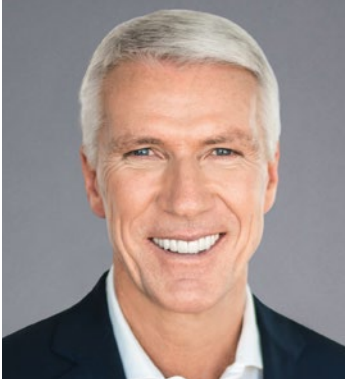
A supply chain should be continually assessed and improved to deliver maximum security and benefit. The temptation to ignore the urgencies of having a secure framework should be resisted, because it puts the long-term health of the business at risk.

Acting decisively to manage supply-chain risk will pay dividends in the long run.

**Steve Durbin**

**ISF**

# HOST

## Ralf Wintergerst

Chairman of Security Network Munich
and Group CEO Giesecke+Devrient (Munich)

Ralf Wintergerst is Chairman of the Management Board of Giesecke+Devrient (G+D) and the current Chairman of Security Network Munich, the host of the Munich Cyber Security Conference MCSC. Furthermore to his role at G+D, Wintergerst is Chairman of the Supervisory Board of secunet Security Networks AG. In addition, he holds various positions related to IT security issues, including member of the advisory board of the Cyber Defense research institute of the Bundeswehr University in Munich and co-chair of the Digital Summit Platform Security, Protection and Trust of the Federal Ministry of the Interior. Since mid-2019, he took over as chair of the North Africa Middle East Initiative of German Business (NMI) and has also became a member of the Executive Committee of Germany's digital association, Bitkom. Ralf Wintergerst studied Business Administration and holds a Master´s Degree in Management as well as in Politics, Philosophy and Economics.

# CONFERENCE MODERATOR:

## Bianca Sum

Head of Thematic Platform Cybersecurity Bayern Innovativ

Bianca Sum is head of Thematic Platform Cybersecurity at Bayern Innovativ. One of her main goals is to raise awareness of the importance of cybersecurity – especially among small businesses and SMEs. She studied at the Universities of Passau and Heidelberg and PhD candidate on cybersecurity at the University of the German Armed Forces' – Chair of Conflict Studies.

# INSTITUTIONAL PARTNERS:

# KEYNOTE SPEECHES:

## Margaritis Schinas

### Vice-President EU Commission (Brussels)

Margaritis Schinas took office as Vice-President of the European Commission under President Ursula Von Der Leyen in December 2019. He is entrusted with the portfolio for Promoting our European Way of Life. In this capacity, he oversees the EU's policies for Security Union, migration, skills, education and integration. As Vice-President in charge of the Security Union, he oversees and coordinates all strands of the European Commission's work under the Security Union, including tackling terrorism and radicalisation, disrupting organised crime, fighting cybercrime, stepping up cybersecurity, protecting critical infrastructures or addressing hybrid threats. Mr Schinas has also served as a Member of the European Parliament. Upon the completion of his parliamentary term of office, he returned to the European Commission and held various senior positions. In particular, in 2010, President Barroso appointed Mr Schinas as Deputy Head of the Bureau of European Policy Advisers. Later he served as Resident Director and Head of the Athens Office of the European Commission's Directorate-General for Economic and Financial Affairs (DG ECFIN). In 2014, President Juncker appointed Mr Schinas as the Chief European Commission Spokesperson. Mr Schinas has been working for the European Commission in various positions of responsibility since 1990. Margaritis Schinas holds an MSc on Public Administration and Public Policy from the London School of Economics, a Diploma of Advanced European Studies on European Administrative Studies from the College of Europe in Bruges and a Degree in Law from the Aristotelean University of Thessaloniki.

## Jen Easterly

### Director CISA (Washington D.C.)

Jen Easterly is the Director of the Cybersecurity and Infrastructure Security Agency (CISA). She was nominated by President Biden in April 2021 and unanimously confirmed by the Senate on July 12, 2021. As Director, Ms. Easterly leads CISA's efforts to understand, manage, and reduce risk to the nation's cyber and physical infrastructure. Before serving in her current role, Ms. Easterly was Head of Firm Resilience at Morgan Stanley. Prior to joining Morgan Stanley, she served as Special Assistant to President Obama and Senior Director for Counterterrorism on the National Security Council and separately as the Deputy for Counterterrorism at the National Security Agency. A two-time recipient of the Bronze Star, Ms. Easterly retired from the U.S. Army after more than twenty years of service in intelligence and cyber operations, including tours of duty in Haiti, the Balkans, Iraq, and Afghanistan. Responsible for standing up the Army's first cyber battalion, Ms. Easterly was also instrumental in the creation of United States Cyber Command. A distinguished graduate of West Point, Ms. Easterly holds a master's degree in Philosophy, Politics, and Economics from the University of Oxford, where she studied as a Rhodes Scholar. She is the recipient of the James W. Foley Legacy Foundation American Hostage Freedom Award.

# SPEAKERS

### Kiersten E. Todt
Chief of Staff CISA (Washington D.C.)

Kiersten E. Todt is the Chief of Staff at the Cybersecurity and Infrastructure Security Agency (CISA). Prior to her role at CISA, Kiersten served as the Managing Director of the Cyber Readiness Institute (CRI), a non-profit initiative that convenes senior executives of global companies to develop free cybersecurity tools and resources for small businesses, worldwide.  She co-founded CRI in 2017 with the CEOs of Mastercard, Microsoft, PSP Partners, and the retired CEO of IBM.  Ms. Todt most recently served in the federal government as Executive Director of President Obama's Commission on Enhancing Cybersecurity and has served in senior positions in the White House and United States Senate. Ms. Todt graduated from Princeton University, with a degree in public policy from the School of Public and International Affairs and a certificate in African-American Studies.  She holds a master's degree in Public Policy and a certificate in negotiation and conflict resolution from the John F. Kennedy School of Government at Harvard University.

### Lindy Cameron
CEO National Cyber Security Centre (London)

Lindy became CEO of the National Cyber Security Centre in October 2020 following more than two decades of national security policy and crisis management experience. She was previously a Director-General in the Northern Ireland Office and at the Department for International Development (DFID). After starting her career in the private sector, Lindy served across government both at home and abroad, including postings in Africa, Asia and the Middle East.

### Arne Schönbohm
President Federal Office for Information Security BSI (Bonn)

Arne Schönbohm took up his position as president of the Federal Office for Information Security (BSI) on 18. February 2016. Arne Schönbohm (born 1969 in Hamburg) studied international business administration at the International School of Management in Dortmund, as well as in London and Taipei. Between 1995 and 2008 he held several senior positions within EADS Germany, now Airbus, most recently as Vice President Commercial and Defence Solutions for EADS Secure Networks. From 2008 to 2016 he was Chief Executive Officer of BSS BuCET Shared Services AG (BSS AG), which advises companies and public authorities in the fields of digitalisation, cyber security and data protection. In addition to this activity, Arne Schönbohm served, beginning in August 2012, for more than three years as president of Cyber-Sicherheitsrat Deutschland e.V., a Berlin-based politically neutral association, that has set itself the task of advising companies, public authorities and policymakers on matters of cyber security and strengthening them for the fight against cybercrime. He is also the author of various books, including "Deutschlands Sicherheit – Cybercrime and Cyberwar" (2011).

# SPEAKERS

### Benjamin Ang

Senior Fellow Center of Excellence for National Security
(Singapore)

Benjamin Ang is the Senior Fellow leading Cyber and Homeland Defence research at the Center of Excellence for National Security (CENS), a policy research think tank in the S. Rajaratnam School of International Studies (RSIS), Nanyang Technological University, Singapore. His team examines how laws and public policy respond to developments in cybersecurity and information and communications technology, international law and norms, technology nationalism, smart cities, artificial intelligence, disinformation and information operations, foreign interference, social media, and emerging technology. His private sector experience includes time as a litigation lawyer, CIO, legal counsel, law lecturer, technology consultant, and even Novell Netware Administrator back in the day. More recently he has been a trainer for the UN/Singapore Cyber Diplomacy Programme, presented at the United Nations Open Ended Working Group on Developments in Information and Telecommunications in International Security, and testified before Singapore's Select Committee on Deliberate Online Falsehoods.

### Péter Szász

Deputy Director National Cyber Security Centre (Budapest)

Péter Szász got degrees as a computer programmer mathematician, teacher of informatics (MA), and as a master in library and information science. He holds cerfitications on the fields of IT and management. He is working for the Special Service for National Security since 2017, where he started as an IT Security Specialist and later became the head of Security Operations Center. In 2021 he became the head of the Incident Handling department and with it, the deputy director of the National Cyber Security Center.

### Alpha Barry

Founder and CEO of secida (Dortmund)

Alpha Barry is CEO of secida AG, a consultancy focused on designing and implementing secure IT infrastructures through competent use of identity and access management. Before founding secida, Alpha Barry was head of Group IT infrastructure and Cybersecurity at ThyssenKrupp, a large German industry conglomerate, where he introduced group-wide programs for identity and access management, as well as privileged access management. Alpha began his career as a consultant in McKinsey's Business Technology office. He holds a diploma in industrial engineering and management from Technische Universität Berlin.

# SPEAKERS

## Margiris Abukevičius

Vice Minister of National Defence of the Republic of Lithuania (Vilnius)

Margiris Abukevičius is a Vice Minister of National Defence of the Republic of Lithuania. He is responsible for international cooperation (EU, NATO, bilateral defence cooperation, etc.) and cybersecurity. In his current position, he led national efforts in designing a legal framework to ensure that only trusted suppliers can participate in building 5G infrastructure in Lithuania. Previously, Margiris Abukevičius was the Senior Advisor at the Cyber Security and Information Technology Policy Group of the Ministry of National Defence, responsible for international cooperation projects in the area of cybersecurity and initiatives of bilateral cooperation with the US. When working as a Defence Advisor and Cyber Attaché at the Permanent Representation of Lithuania to the EU in 2015 – 2019, Margiris Abukevičius contributed to shaping the Lithuanian stance on the EU security and defence and cybersecurity issues. He was one of the negotiators concerning the Permanent Structured Cooperation (PESCO) and European Defence Fund establishment and development of EU legislation for the area of cyber security. He is also one of the initiators and developers of the Lithuanian-led PESCO Cyber Rapid Response Teams project. Margiris Abukevičius started working at the Ministry of National Defence in 2004. In 2004 – 2014 he held responsibilities concerning EU Common Security and Defence Policy and EU affairs coordination and was a member of the Lithuanian Presidency of the Council of the EU team. Margiris Abukevičius holds a BA and a MA received at the Institute of International Relations and Political Science of Vilnius University and studied in Berlin and Geneva. Married, raises four daughters.

## Axel Deininger

CEO secunet and Chairman of ECSO (Munich)

Axel Deininger has been on the Management Board of secunet Security Networks AG since January 2018 and took over as Chairman in June 2019. He is responsible in particular for Strategy/Business Development, International Sales, Marketing and Human Resources. Previously, Axel Deininger was Group Senior VP and Head of Division Connectivity & Devices at G+D Mobile Security GmbH. Axel Deininger's career has included positions at Siemens AG, Infineon Technologies AG and Samsung Semiconductor Europe GmbH. Most recently, Deininger held various positions at the Munich-based Giesecke+Devrient Group for more than ten years.

## Arvid Rosinski

CISO Audi (Ingolstadt)

After studying mechanical engineering, Arvid Rosinski worked in various IT positions, which were always strongly linked to the topic of IT security. In his IT security career, he has held positions in consulting, auditing and to this day as CISO in the automotive industry. He has been working for AUDI AG in this function for 7 years.

# SPEAKERS

### George Stathakopoulos

VP of Corporate Information Security Apple (Cupertino)

George Stathakopoulos is the Vice President of Corporate Information Security and Chief Information Security Officer for Apple, Inc. George is responsible for protecting Apple's enterprise-wide assets. Prior to this, George was Vice President for Information Security and Corporate IT for Amazon.com. Recruited out of college by Microsoft Corp, George remained there for 19 years, ultimately leading its global team of security professionals responsible for security engineering, incident response, and security community relations. George is a seasoned executive with 25+ years of security experience in multiple technology disciplines. He has designed, implemented and led the information security organization for three Fortune 10 corporations. George maintains a connection to the security community through regular customer and partner engagement, as well as speaking at industry and government conferences. He currently serves on the committee of the Executive Security Action Forum. The Forum is a recognized leader gathering security executives from Global 1000 companies to foster knowledge and influence that will shape the profession for generations to come. George holds over 24 issued US patents ranging from data protection using active data to crowdsourced analysis of decontextualized data. Born and raised in Greece, Stathakopoulos moved to the U.S. when he was 19. He currently lives in San Francisco with his wife.

### Phil Venables

CISO and VP Google Cloud (Mountain View)

Phil leads the risk, security, compliance, and privacy teams for Google Cloud.  Prior to joining Google Cloud, Phil was a Partner at Goldman Sachs where he held multiple roles over a long career, initially as their first Chief Information Security Officer, a role he held for 17 years. Before Goldman Sachs, Phil held multiple CISO roles as well as senior engineering roles across a range of finance, energy and technology companies. Phil earned a BSc (Hons) in Computer Science from the University of York and an MSc in Computation and Cryptography from the Queen's College at Oxford University.

### Jürgen Stock

Secretary General Interpol (Lyon)

Jürgen Stock was appointed as Secretary General of INTERPOL in November 2014 and was re-appointed in October 2019 to serve a second five-year term. He has more than 40 years of policing experience. Secretary General Stock has initiated changes in four key areas: to improve core business services to police, establish strong partnerships, embrace innovation, and strengthen governance structures and mechanisms. He established three global programmes to guide all INTERPOL's policing activities: Counter-Terrorism, Organized and Emerging Crime, and Cybercrime. Since 2014, Secretary General Stock has also overseen the creation of a specialized task force to review Red Notice requests, a new Statute for the Commission for the Control of INTERPOL's Files, a review of the legal framework around the Organization's governing bodies, and a change in the funding model to focus more on public sector contributions.

# SPEAKERS

## Stormy-Annika Mildner

Executive Director Aspen Institute Germany (Berlin)

In January 2021, Dr. Stormy-Annika Mildner (M.Sc.) became Director of the Aspen Institute Germany in Berlin, a renowned policy-oriented thinktank focusing on transatlantic relations and issues of global importance. As an adjunct professor, she teaches political economy at the Hertie School. From 2014 to 2020, she served as head of the department External Economic Policy at the Federation of German Industries (BDI), where she was responsible for international trade and investment issues. As Sherpa, she spearheaded the German Business7 Presidency (2015) and the German Business20 Presidency (2016-2017). Prior to joining BDI, she was Member of the Board of the German Institute for International and Security Affairs (SWP), worked as a lecturer at the John F. Kennedy Institute of the Free University of Berlin, and headed the program Globalization and the World Economy at the German Council on Foreign Relations (DGAP). She completed research fellowships at the American Institute for Contemporary German Studies and the Transatlantic Academy of the German Marshall Fund in Washington. She earned a Master of Science in international political economy from the London School of Economics and a PhD in economics from Freie Universität Berlin. During her doctoral studies, she conducted a one-year fellowship at the Yale Center for International and Area Studies (YCIAS) at Yale University.

## General David H. Petraeus

Partner KKR (New York)

General David H. Petraeus (US Army, Ret.) is a Partner with the global investment firm KKR and Chairman of the KKR Global Institute, which he established in May 2013.  He is also a member of the boards of directors of Optiv and FirstStream, a venture investor in more than 15 startups, and engaged in a variety of academic endeavors. Prior to joining KKR, General Petraeus served over 37 years in the U.S. military, culminating his career with six consecutive commands, five of which were in combat, including command of the 101st Airborne Division during the fight to Baghdad and the first year in Iraq, command of the Multinational Security Transition Command in Iraq, command of coalition forces in Iraq during the Surge, command of U.S. Central Command, and command of coalition forces in Afghanistan. Following retirement from the military and after Senate confirmation by a vote of 94-0, he served as Director of the CIA during a period of significant achievements in the global war on terror, the establishment of important Agency digital initiatives, and significant investments in the Agency's most important asset, its human capital. General Petraeus graduated with distinction from the U.S. Military Academy, and he is the only person in Army history to be the top graduate of both the demanding U.S. Army Ranger School and the U.S. Army's Command and General Staff College.  He also earned a Ph.D. from Princeton University's School of Public and International Affairs.  General Petraeus taught international relations and economics at the U.S. Military Academy in the mid-1980s, he was a Visiting Professor of Public Policy at the Honors College of the City University of New York from 2013 through 2016, and he was for 6 years a Judge Widney Professor at the University of Southern California and a Senior Fellow at Harvard University's Belfer Center.

# SPEAKERS

## Alex Stamos
### Director Stanford Internet Observatory (San Francisco)

Alex Stamos is a cybersecurity expert, business leader and entrepreneur working to improve the security and safety of the Internet through his teaching and research at Stanford University. He is the Founder and Director of the Stanford Internet Observatory. He is also the co-founder of the Krebs Stamos Group, a cybersecurity consulting firm. Prior to joining Stanford, Alex served as the Chief Security Officer of Facebook. In this role, Stamos led a team of engineers, researchers, investigators, and analysts charged with understanding and mitigating information security risks to the company and safety risks to the 2.5 billion people on Facebook, Instagram, and WhatsApp. Before joining Facebook, Alex was the Chief Information Security Officer at Yahoo, rebuilding a storied security team while dealing with multiple assaults by nation-state actors. Alex has been involved with securing the US election system as a contributor to Harvard's Defending Digital Democracy Project and involved in the academic community as an advisor to Stanford's Cybersecurity Policy Program and UC Berkeley's Center for Long-Term Cybersecurity. He is a member of the Aspen Institute's Cyber Security Task Force, the Bay Area CSO Council and the Council on Foreign Relations. Alex also serves on the advisory board to NATO's Collective Cybersecurity Center of Excellence in Estonia and to the Cybersecurity and Infrastructure Security Agency (CISA) Advisory Committee.

## Jeff Moss
### Founder Black Hat and DEFCON Conference Series (Seattle)

A career spent at the intersection of hacking, professional cybersecurity and Internet governance gives Mr. Moss a unique perspective. He created DEF CON, the world's largest hacking conference and is also the founder of The Black Hat Briefings, a global information security event. Mr. Moss is an angel investor to startups in the security space, serves on the Board of Directors for Compagnie Financière Richemont SA., and was a technical advisor to the TV Series Mr. Robot, and Mr. Moss actively seeks out opportunities to help shape the cybersecurity conversation. He is a member of the US Department of Homeland Security Advisory Council (HSAC) and a commissioner on the Global Council on the Stability of Cyberspace (GCSC). He is a Nonresident Senior Fellow at the Atlantic Council Cyber Statecraft Initiative, and a member of the Council on Foreign Relations. In a prior life Mr. Moss served as the Chief Security Officer and Vice President of ICANN, the Internet Corporation for Assigned Names and Numbers.

## Gordon Corera
### BBC (London)

Gordon Corera has been a Security Correspondent for BBC News since June 2004. In that role he covers national security issues including counter-terrorism, espionage and cyber security for BBC TV, Radio and Online. He was previously a foreign affairs reporter on the Today programme, BBC Radio 4's flagship news programme. Gordon has also been a State Department Correspondent based in Washington DC and the US Affairs Analyst for BBC News. He is the author of a number of books, most recently, Russians Among Us: Sleeper Cells, Ghost Stories and the Hunt for Putin's spies.

# SPEAKERS

## Lisa O. Monaco

Deputy Attorney General U.S. DoJ (Washington D.C.)

Lisa O. Monaco is the 39th Deputy Attorney General of the United States. As the Deputy Attorney General, she is responsible for the overall supervision and direction of all organizational units of the Department of Justice, and she also advises and assists the Attorney General in formulating and implementing the Department's policies and programs. From 2013-2017, Deputy Attorney General Monaco was the Homeland Security and Counterterrorism Advisor to the President. In that role, she coordinated the Executive Branch's activities relating to matters of national security–including the response to international and domestic terrorist incidents, cyber threats, and natural disasters–and advised the President on all aspects of counterterrorism policy and strategy. From 2017 until 2021, the Deputy Attorney General was at a private law firm. She was born and raised in Massachusetts, and is a graduate of Harvard University as well as the University of Chicago Law School.

## Tonya Ugoretz

Deputy Assistant Director FBI (Washington D.C.)

TTonya Ugoretz is the Deputy Assistant Director in the FBI's Cyber Division where she oversees national-level cyber policy, analysis of cyber-criminal and national security threats, and partner engagement. Prior to this position, she spent three years at the Office of the Director for National Intelligence as the first director of the Cyber Threat Intelligence Integration Center (CTIIC), for which she received the National Intelligence Distinguished Service Medal. Ms. Ugoretz began government service in 2001 as a Presidential Management Fellow. In 2003, she became the first analyst to serve as the FBI Director's daily briefer and thereafter served in various roles at FBI and other agencies, including assignments with CIA, Customs and Border Protection, and the National Intelligence Council.

## Jaak Tarien

Director NATO Cooperative Cyber Defence Centre of Excellence (Tallinn)

Colonel Jaak Tarien is the Director of the NATO Cooperative Cyber Defence Centre of Excellence (CCDCOE) based in Estonia since September 2018. CCDCOE is a NATO-accredited cyber defence hub focusing on research, training and exercises. The international military organisation based is a community of currently 29 nations providing a 360-degree look at cyber defence, with expertise in the areas of technology, strategy, operations and law. Prior to joining CCDCOE Colonel Tarien served as Commander of Estonian Air Force from August 2012 to July 2018. Among other assignments he has also served as Staff Officer with NATO's Supreme Allied Command Transformation (ACT), as Deputy Director of the Regional Airspace Surveillance Coordination Centre and as Commander of the Estonian team at the BALTNET Regional Airspace Surveillance Co-ordination Centre in Lithuania. Colonel Tarien, a graduate of the United States Air Force Academy, earned his Master's degree from the Air Command and Staff College of the USAF Air University. He recently also acquired Master of Science degree in National Resource Strategy at the U.S. National Defence University.

# SPEAKERS

## Dmitri Alperovitch

Co-Founder of CrowdStrike & Silverado Policy Accelerator (Washington D.C.)

Dmitri Alperovitch is the Co-Founder and Executive Chairman of the Silverado Policy Accelerator, a non-profit focused on advancing American prosperity and global leadership in the 21st century and beyond. He is a Co-Founder and former CTO of CrowdStrike Inc., a leading cybersecurity company. A renowned computer security visionary, he is a thought-leader on cybersecurity strategy and state tradecraft and has served as special advisor to the Department of Defense. He is a frequent strategic cybersecurity advisor to CEOs and Board of Directors of public and private companies. Alperovitch is also an active angel investor and board member at multiple high-growth technology companies. Alperovitch was named Foreign Policy Magazine's Leading Global Thinker for 2013, an award shared with Secretary of State John Kerry, Elon Musk and Jeff Bezos. Prior to founding CrowdStrike, Dmitri was a Vice President of Threat Research at McAfee, where he led company's global Internet threat intelligence analysis and investigations. Prior to joining McAfee, Alperovitch led the research team and the Cloud Security business unit at Secure Computing. Alperovitch holds a master's degree in Information Security and a bachelor's degree in Computer Science, both from Georgia Institute of Technology.

## Robert Silvers

Under Secretary for Strategy Policy and Plans DHS (Washington D.C.)

Robert Silvers was confirmed by the Senate as the Under Secretary for Strategy, Policy, and Plans on August 5, 2021. He is responsible for driving policy and implementation plans across all of DHS's missions, including counterterrorism; cybersecurity, infrastructure security, and resilience; border security and immigration; international affairs; and trade and economic security. Mr. Silvers previously served in the Department of Homeland Security during the Obama-Biden Administration as Assistant Secretary for Cyber Policy. In that role he oversaw private sector engagement, federal government incident response, and diplomatic outreach pertaining to cybersecurity and emerging technology. Mr. Silvers also previously served as DHS's Deputy Chief of Staff, managing execution of policy and operational priorities across the entire Department. Prior to his appointment, Mr. Silvers was a partner at the law firm Paul Hastings LLP, where his practice focused on cybersecurity and data privacy, government security review of foreign investments, and investigations and litigation at the intersection of law and national security. After graduating law school, he clerked for Judge Kim McLane Wardlaw of the U.S. Court of Appeals for the Ninth Circuit. Mr. Silvers holds a J.D. from New York University School of Law and a B.A. from the University of Pennsylvania. He taught as an adjunct professor in the M.S. in Cybersecurity Risk and Strategy Program co-offered by the NYU Law School and NYU Tandon School of Engineering. A New York City native, Mr. Silvers lives in Washington, D.C. with his wife and their two children.

# SPEAKERS

## Ellen Nakashima

National Security Reporter Washington Post (Washington D.C.)

Ellen Nakashima is a national security reporter for The Washington Post. She covers cybersecurity counterterrorism and intelligence issues. She has probed Russia's efforts to influence the outcome of the 2016 presidential election and contacts between aides to President Trump and Russian officials, work which led her and her colleagues to win a Pulitzer Prize in 2018. She was part of another team awarded the Pulitzer Prize for Public Service in 2014 for reporting on the hidden scope of government surveillance and its policy implications. Nakashima has also served as a Southeast Asia correspondent and covered the White House and Virginia state politics. She joined The Post in 1995.

## Georg Eisenreich

State Minister of Justice Government of Bavaria (Munich)

Georg Eisenreich studied law at LMU Munich and has been a licensed lawyer in Munich since 2001 (currently not exercised due to a public office). Georg Eisenreich has been a member of the Bavarian Landtag (State Parliament) since 2003. From 2013 to 2018, he was Bavarian Vice-Minister for Education and Religious Affairs, Science and the Arts, from March to November 2018 Bavarian State Minister for the Digital Agenda, Media and Europe. Georg Eisenreich was appointed Minister of Justice on November 12, 2018.

## Greg Lavender

CTO Intel Corporation (Santa Clara)

Greg Lavender is senior vice president, chief technology officer (CTO) and general manager of the Software and Advanced Technology Group (SATG) at Intel Corporation. As CTO, he is responsible for driving Intel's future technical innovation and research programs. He is also responsible for defining a singular artificial intelligence software stack to support Intel's range of business and hardware offerings. Lavender joined Intel in June 2021 from VMware, where he served as senior vice president and CTO. He has more than 35 years of experience in software and hardware product engineering and advanced research and development. Before VMware, Lavender was managing director and CTO for Cloud Architecture and Technology Engineering at Citigroup, where he led the global transformation of Citi IT to adopt modern mobile technology, cloud IaaS and PaaS, big data and advanced analytics, high performance computing, and agile software development models. Prior to Citi, Lavender was corporate vice president of Network Software Engineering at Cisco, where he led network operating system engineering and platform independent protocol engineering for both enterprise and data center switching and routing products, including the next-generation virtualized multicore network operating system for software-defined networking. Prior to Cisco, he worked at Sun Microsystems in various engineering leadership roles, including vice president of Engineering for the Solaris Operating System. Lavender holds a Bachelor of Science in computer science from the University of Georgia, and a Master of Science and Ph.D. in computer science from Virginia Tech.

# SPEAKERS

## Kevin Jones
### CISO Airbus Group (Cardiff)

Dr Kevin Jones is the Group Chief Digital / Information Security Officer (CISO) at Airbus, responsible for the digital security programme including; risk management, design architecture, red team, detection and response, plus cyber security research & innovation, across; IT, ICS, people and product security domains. He provides strategic, organisational, and technical programmes within the digital security function. Kevin's is an industry recognised expert having previously worked in technical fields of both offensive and defensive cyber security,and more recently in strategic and senior leadership roles. His specialist areas include; Information Security Management & Risk, Security Auditing, Security Architecture, Cloud Security, Threat & Vulnerability Analysis, and Incident Response. In addition he is known as an expert in cyber security for industrial control systems and safety critical systems. He is active in the cyber security research community, has published over 50 articles, holds a multiple patents within the domain, and regularly engages with the security community and businesses on implementing best in class digital security programmes. Kevin works closely with Government agencies on cyber security topics in addition to European and academic programmes. He is industry Chair of the UK National Cyber Security Centre (NCSC)Industrial Control Systems Community of Interest and member of the associated expert group. He holds a BSc in Computer Science and MSc in Distributed Systems Integration from De Montfort University, Leicester where healso obtained his PhD: A Trust Based Approach to Mobile Multi-Agent System Security in 2010 He is a recognised thought leader and innovation, plus a frequent public speaker; on cyber security, security innovation, and the protection of safety crucial systems / critical national infrastructure. In addition he is an advisor to numerous cyber security research programmes and events. Kevin is an advocate and champion for cyber security in academia, development of cyber skills and for multi-disciplinary research. He is a founding member of CyberWalesrepresenting the cyber security ecosystem across Wales and on the International stage.

## Massimo Mercati
### Head of ESA Security Office European Space Agency ESA (Rome)

Senior Manager expert of complex Space and Security multinational programmes, such as ISS (International Space Station), MEADS (Medium Extended Air Defence System) and GALILEO, with high knowledge in identifying and managing innovative engineering and technology solutions with regard to complex dual use or military space systems. More than 20 years of experience in Space, in Security and the Electronic Technology field, most of which was spent leading teams in Industries, in International and Intergovernmental Agencies/Organisations, such as NATO, the Italian Space Agency and the European Space Agency, along with Governmental Institutions as Space Security and Galileo Public Regulated Service Expert for the Italian Prime Minister, Military Advisor Cabinet Office. In ESA since the 2010, working in the Galileo Programme, and, since the beginning of 2019, filling the role of ESA Security Authority leading the ESA Security Office Team, with direct reporting line to the ESA Director General. This responsibility, performed in synergy with Member States' security specialists (the ESA Security Committee), includes the identification and analysis of the ESA Security Strategy, the definition of the ESA Security policy and establishment of the security framework, the Corporate and Space Programme Security implementation supervision and Accreditation Engineering Management, and, finally, as Cyber Security Authority, the establishment of specific ESA Cyber Procurements. The Goal, for the ESA Security Office, is to grant an appropriate level of security applied to the ESA environment and ESA Space Infrastructure in order to safeguard the investments of the European Member States.

# SPEAKERS

## Christopher C. Krebs

### Founding Partner KS Group (Washington D.C.)

Christopher Krebs is Founding Partner of the Krebs Stamos Group and Chair of the Commission on Information Disorder at the Aspen Institute as well as founding partner of the Krebs Stamos Group. He previously served as the first director of the Department of Homeland Security's (DHS) Cybersecurity and Infrastructure Security Agency (CISA) where he oversaw the Agency's efforts to manage risk to the nation's businesses and government agencies, bringing together partners to collectively defend against cyber and physical threats. Before serving as CISA Director, Mr. Krebs was appointed in August 2017 as the Assistant Secretary for Infrastructure Protection. Mr. Krebs joined the DHS in March 2017, first serving as Senior Counselor to the Secretary. Prior to coming to DHS, he led Microsoft's U.S. cybersecurity policy efforts. Mr. Krebs holds a bachelor's degree in environmental sciences from the University of Virginia and a J.D. from the Antonin Scalia Law School at George Mason University.

## Christopher Ahlberg

### Co-Founder and CEO Recorded Future (Boston)

Dr. Christopher Ahlberg is the CEO of Recorded Future, Inc. (the world's largest intelligence company) and Chairman of Hult International Business School. He advises a series of start up companies. Earlier Ahlberg was the president of the Spotfire Division of TIBCO, which he founded in 1996 and in 2007 sold to TIBCO (Nasdaq: TIBX). Spotfire was founded based on his ground-breaking research on information visualization. Dr. Ahlberg earned his doctorate from Chalmers University of Technology, worked as a visiting researcher at the University of Maryland, and has lectured and consulted extensively for industry, academia, military, and intelligence communities - as well as published & lectured in computer science, cyber security, psychology, linguistics, biology, and chemistry. He has five granted software patents, and multiple pending. Dr. Ahlberg was named among the World's Top 100 Young Innovators by Technology Review, MIT's Magazine of Innovation in 2002. He is a member of the Royal Swedish Academy of Engineering Sciences.

## Joe Hubback

### Managing Director Istari EMEA (London)

Joe is the author of the 2020 independent report "Cybersecurity technology efficacy: is cybersecurity the new market for lemons?" and is co-leading the follow up work on a "SAFER Cybersecurity Buyers Charter" with Professor Ciaran Martin. His report is the subject of his short video for the conference. If you'd like to read the report or see the launch event video these can be found here: https://www.debatesecurity.com/cybersecurity-technology-efficacy-is-cybersecurity-the-new-market-for-lemons/ . Joe has a broad background including McKinsey & Company (where he was a partner and co-led the creation of their cybersecurity practice) and has also held corporate leadership roles (as MD for North West Europe in Keller running a full P&L). He started his career in the industrial sector as an engineer designing and installing electronic control and robotics systems. He is also passionate about entrepreneurship and is a trustee of the Centre for Entrepreneurs charity.

# SPEAKERS

## Bentsi Ben-atar

### Co-Founder and CMO Sepio (Tel Aviv)

Bentsi Ben-atar is the co-founder and CMO of Sepio. He has a strong intelligence community background and over 25 years of experience. Further, Bentsi has a BSC in Electrical Engineering and is a MBA Graduate. He is a hardware security expert, as well as an expert on Rogue Device Detection, supply chain attacks, internal abusers, and is a leader in Zero Trust Hardware Access.

## Andy Purdy

### CSO Huawei Technologies USA (Washington D.C.)

Andy is Chief Security Officer for Huawei Technologies USA overseeing Huawei USA's cyber security assurance and user privacy protection program. Andy was the senior cyber security official of the U.S. Government from 2004-2006.  Prior to joining the Department of Homeland Security, Andy was a member of the White House staff where he helped to draft the U.S. National Strategy to Secure Cyberspace (2003), after which he went to the Department of Homeland Security (DHS) where he helped to form and then led the National Cyber Security Division (NCSD) and the U.S. Computer Emergency Readiness Team (US-CERT). Immediately prior to joining Huawei, Andy was the Chief Cybersecurity Strategist for Computer Sciences Corporation.

## Michael Beaupre

### Security Advisor and  former Global CISO at Merck (Frankfurt)

Michael is as technology leader with over 25 years of experience guiding international public sector organizations, DAX 30 businesses, and mid-sized international firms through strategic technology initiatives. Among others, he was the Global CISO for Merck KGaA. He is an expert in digitization and IT transformation and a thought leader in Cybersecurity, organizational risk management, and IT compliance. Throughout his career Mike has led complex organizations towards enhanced operations while saving hundreds of millions in operating costs. He is passionate about mentorship, coaching, and removing cultural barriers in diverse organizations. He was born in the US, raised in Texas, and has travelled the world helping people maximize potential. Mike resides in Germany and is focused on family, volunteer work, and supporting international clients.

Founded in 1989, the Information Security Forum (ISF) is an independent, not-for-profit organisation with a Membership comprising many of the world's leading organisations featured on the Fortune 500 and Forbes 2000 lists. It is dedicated to investigating, clarifying and resolving key issues in information security and risk management, by developing best practice methodologies, processes and solutions that meet the business needs of its Members.

**ISF**

# THREAT HORIZON 2024
## The disintegration of trust



**Technology choices diminish control**

**Well-intentioned regulations have unintended consequences**

**Dirty data disrupts business**

2024

Machines seize control

THREAT HORIZON 2022 – 2024

2023

Identity is weaponised

2022

Security fails in a brave new world

A crisis of trust undermines digital business

Neglected infrastructure cripples operations

Invasive technology disrupts the everyday

### Threat Horizon 2022
**Digital and physical worlds collide**

1.1 Augmented attacks distort reality

1.2 Behavioural analytics trigger a consumer backlash

1.3 Robo-helpers help themselves to data

2.1 Edge computing pushes security to the brink

2.2 Extreme weather wreaks havoc on infrastructure

2.3 The internet of forgotten things bites back

3.1 Deepfakes tell true lies

3.2 The digital generation become the scammer's dream

3.3 Activists expose digital ethics abuse

### Threat Horizon 2023
**Security at a tipping point**

1.1 Artificial intelligence industrialises high-impact attacks

1.2 Automated defences backfire

1.3 Layered security causes complacency and confusion

2.1 Digital doppelgängers undermine identity

2.2 Biological data drives a rash of breaches

2.3 Gamed algorithms cause commercial confusion

3.1 Smart grids succumb to an attack surge

3.2 Isolationism creates a security disconnect

3.3 Security struggles to adjust to the never normal

### Threat Horizon 2024
**The disintegration of trust**

1.1 Ransomware evolves into triple extortion

1.2 Regulators inhibit data-driven innovation

1.3 Attackers undermine central cryptocurrencies

2.1 The cloud risk bubble bursts

2.2 Activists pivot to cyber space

2.3 Misplaced confidence disguises low-code risks

3.1 Attackers poison the data well

3.2 Misleading signals subvert cyber fusion centres

3.3 Digital twins double the attack surface

# ACKNOWLEDGMENTS

## This conference was organised by:

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# SECURITY NETWORK MUNICH
## Europe's leading expert network for information security

The Security Network Munich (Sicherheitsnetzwerk München) is an association of leading players, organisations and research institutes in the field of information and cyber security in the greater Munich area. Our goal is to foster industry cooperation through joint research and innovation projects. Our members meet regularly to discuss pressing industry challenges with government and research institutions. We also convey the industry´s insights and concerns to a political and broader societal audience, through education and communication, spreading awareness of the importance of information security.

Set up as a project funded by the Bavarian Ministry of Economic Affairs ten years ago, the network founded the non-profit association "Sicherheitsnetzwerk München e.V." in January 2019. The new association will promote cooperation and exchange among its members across different industries and academia, foster innovation projects and education initiatives directed especially to students and young adults. The Security Network Munich is committed to engage -together with its partners- in awareness and best practice campaigns with special emphasize on SMEs.

For more information on the network and membership, please visit https://it-security-munich.net.

**Security Network Munich**