Atos Technology Days
Security at the Heart

July 4-6, 2017
Brussels
Business conferences (p 10-13)
Same time on July 5 - 6
- GDPR Journey to compliance
- IoT Security for manufacturing
- Safeguarding citizen-centric public services
- Security & Fraud Prevention
- Prescriptive Security Operations Centers

Venue map

Welcome Desk

Round Table (p 8-9)

Demo (p 6):
- Bull Hoox

Demo (p 4-5):
- Bull Evidian
- Bull Horus
- Bull Trustway

Demo (p 7):
- Bull Sequana

Demo (p 6):
- Prescriptive Security Operations Center (SOC)

Demo (p 4-5):
- Atos Quantum Learning Machine
More than ever before companies need to establish and maintain the highest levels of trust, security and privacy in order to survive the data deluge and fight cyber threats.

Although the European regulations aim to strengthen and unify data protection for all individuals, on a global level the race between attackers and cyber-forces has only just begun.

How prepared are you to tackle these threats and protect your organization as well as safeguard your users’ and citizens’ data?

At Atos, security is at the heart of what we do, controlling every step of your data journey: securing your data through ultra-protected authentication, embedded IoT security, data encryption and prescriptive analysis. We believe it is our responsibility to anticipate the security models in the “post quantum era” and to be prepared for the risks that come with it such as collapse of asymmetric cryptography. Building a quantum-safe future is the highest priority of our Atos Quantum R&D teams.

Atos Technology Days is a unique opportunity to discuss the challenges of Data Security together with our security experts and discover the new generation of high-performance technologies. I am therefore pleased to welcome you to the second edition of Atos Technology Days at the BOZAR Center for Fine Arts in Brussels, along with the European Ecosystem, your peer executives in leading companies and technology leaders.

Atos is your trusted partner, protecting your business in your digital journey.
Demo tour

We invite you to come on a unique and engaging tour with us where you can discover and explore a new generation of high-performance technologies that will secure your data journey. Find out how you can outsmart today’s information analytics and data security limitations, and protect your business from any intrusion.

**Atos Quantum Learning Machine**

Quantum Computing is emerging and promises new breakthroughs in compute-intensive areas of IT, including Artificial Intelligence, Big Data, HPC and Cybersecurity. Due to the very nature of quantum information, this revolution brings with it new programming models and techniques.

The first deliverable of the Atos Quantum R&D program, known as the Quantum Learning Machine, is a complete on-premise environment dedicated to the training, experimentation and development of quantum software. It embeds a programming platform and a high-performance quantum simulator, with capabilities and performances unmatched on the market.

**Bull Evidian**

Organizations working in sensitive fields need to offer alternative solutions to conventional security products, such as biometric identification at terminals and chip/card readers for employees. The Evidian Enterprise SSO (Single Sign-On) solution represents a major advance for the healthcare and pharmaceutical industries and research laboratories, giving users a new way to securely access their data and critical applications via multi-factor authentication using the Nymi Band. Users can now sign in, hands-free, by simply pressing their Nymi Band against an NFC reader. Sensitive operations can benefit from a secure and permanent authentication.

Join us to experience an innovative, simplified and ultra-protected authentication with our connected bracelet without having to remember and enter passwords.

**Cyril Allouche**
Distinguished Expert, Head of the Atos Quantum R&D Program, Atos

**Arnaud Bertrand**
Fellow, Head of Big Data, Atos

**Louis-Marie Fouchard**
Head of Identity & Access Management, Atos
Between consumer connectivity and business connectivity, billions of Things are being connected and with them comes a whole new scale of vulnerability and risk. In this demo, you will see real-time information coming from sensors such as temperature and humidity readings being displayed on a TV dashboard from a connected truck. The data from the sensors is protected in integrity and confidentiality, and the dashboard verifies that the data is reliable.

Join us to see how we can protect IoT deployments by adding security by design to an embedded IoT system. We’ll also demonstrate how the data is kept secure in transit from the devices to the IoT platform while ensuring data integrity.

Data Privacy & Protection is mandated by different regulations (GDPR, HIPAA, PCIDSS) to protect sensitive data. With Bull Trustway data protection suite, CEOs can ensure regulatory compliance and secure data from exfiltration. It covers all the encryption cases like database, virtual machine, applications, file systems, tokens and in every type environment such as cloud, virtual and on premise. With our relevant technologic partners ecosystem, we are able to answer any of CEO’s needs and in particular the coming European Global Data Protection Regulation (GDPR).

Our centralized solution is easy to implement and to monitor and it follows rigorous security standards. Based on Hardware Security Module, a tamperproof equipment compliant with all the international standards we guarantee the highest security for your assets.

David Leporini
Head of IoT Security, Atos

René Martin
Head of the Cybersecurity, hardware products, in charge of Quantum encryption, Atos
Security needs are growing steadily due to the data deluge and mobility. In the past, security was like searching for a needle in a haystack, where the needle was an isolated intrusion. As attack surfaces have now increased, it is even harder to locate each assault. In this demo you will discover how Atos’ next-generation Security Operations Centers will protect your intellectual property, defend organizations’ industrial assets and neutralize cyber attacks before they reach their goal. We can detect weak signals by analyzing massive amounts of data and predict risks to ensure our clients can protect themselves on their digital transformation journey.

Join us to understand how Prescriptive Security Analytics reduce the risks you face by turning complexity into intelligence you can act upon.

Hoox for business delivers top-end secure Android smartphones for professionals, ensuring high confidentiality and integrity of business communication. Secure terminal, encrypted voice and data: the whole smartphone protects your privacy.

Hoox for mission brings security and resilience to Long Term Evolution (LTE) communications on the ground. This enables security forces and troops to share their tactical situation on LTE handsets, seamlessly switching between dedicated, public and device-to-device networks.

Our experts will show how personnel can use Hoox for mission to ensure civilian safety and military success. As 4G / LTE makes it possible to share rich mission data, Hoox also provides the security, resilience and usability of tactical communication tools.

Farah Rigal  
Senior Expert, Global SOC Transformation Program Director, Atos

Fabrice Szuper  
Hoox Product Manager, Atos

Thomas Erben  
Global Cybersecurity Portfolio Director, Atos
High-performance computing systems are needed to meet the major challenges of the 21st century. With this in mind, Atos has made a strategic commitment to develop innovative high-performance computing systems with the Bull Sequana range of supercomputers.

Designed by Atos R&D the Bull Sequana X1000 supercomputer uses the latest technological advances, to maximize performance for minimal operations cost. Bull Sequana is designed to be able to integrate the most advanced processor technologies and interconnect networks and data storage while being ultra energy-efficient. Bull Sequana features the Bull Exascale Interconnect (BXI) developed specifically for exascale. BXI includes hardware acceleration technology that frees up processors from all communication tasks, revolutionizing supercomputer performance.

Join us to embark on an interactive journey inside the Bull Sequana and Bull Interconnect Solution.

Eric Eppe
Head of Global HPC, Products & Solutions, Atos
On 4 July you can attend a round table session hosted by Atos on the theme of the “Secured Data Journey” with participants from the European ecosystem and insights from the executives of leading client companies and partners.

Dr. Christophe Galfard
Physicist, speaker & commentator

Dr. Christophe Galfard holds a Ph.D. in Theoretical Physics from the University of Cambridge, England. His supervisor was world-famous Prof. Stephen Hawking, with whom he worked on black holes and the origin(s) of our universe for many years. He now spends most of his time disseminating scientific knowledge to the general public. Christophe Galfard is also a writer, known for Beyond the Horizon (2009), C à vous (2009) and Le grand journal de Canal+ (2004).

Paddy Francis
CTO Airbus Defence and Space - Cybersecurity

Paddy Francis is currently the CTO for the Space CyberSecurity business within Airbus Defence and Space, where he is responsible for overseeing innovation and R&T, as well as helping co-ordinate R&D, introducing new innovations and developing the technology strategy for cybersecurity across the three development centres in the UK, France and Germany.

Maj. Gen. Thierry Baud
Ingenieur general de l’armement, Deputy Program Executive Officer for Tactical Missiles and UAS, DGA

Major General Thierry Baud has a vast background in submarine and warship systems. In 2002, he was promoted to Deputy Director of the FREMM program office. In 2005, he was Deputy Director of the FREMM Programme Division in OCCAR. In 2011 he became Deputy PEO for Tactical Missiles and UAS (Unmanned Advanced System). Maj. Gen. Baud graduated from Polytechnique (1988) and the Ministry of Defense’s National School of Advanced Techniques (ENTA) (1990). He has been awarded the ranks of "Officier" of the “Ordre National du Mérite” and “Officier” of the “Légion d’Honneur.”
Jason Hart  
CTO, Gemalto

Jason is a global award-winning cyber security expert and CTO for Gemalto’s data protection solutions. He is a former ethical hacker with 20 years’ experience in the information security industry and has created technologies to keep organizations one step ahead of evolving cyber threats, including the world’s leading cloud-based authentication platform. He is also deeply interested in reducing and researching the risk of password theft, and is globally known for exposing a large number of major password vulnerabilities. You might find him quoted on the BBC or CNBC, and read his regular contributions to publications such as the Financial Times, The Guardian and TIME.

Dr. Pierre Leca  
Head, High Performance Computing Research Unit, ONERA, the French Aerospace Research Laboratory

Dr. Pierre LECA holds a Ph.D. degree in applied mathematics from University Paris-Sud Orsay, France. For more than 15 years he led the High Performance Computing Research Unit at ONERA, the French Aerospace Research Laboratory. From 1992 to 2001, Pierre Leca was appointed Associate Professor in applied mathematics at the Pierre et Marie Curie University. In 2001 he joined the Military Division of the CEA/DAM to lead the Problem Solving Environment research and development Unit. Since 2002 he has been in charge of the “Information and Simulation Sciences Department” of CEA/DAM. Pierre LECA is also involved in the development of the French SYSTEMATIC competitiveness cluster acting as VP of the “Complex Systems Design and Development Tools” working group.

Dr. Norbert Lütke-Entrup  
Head of Corporate Technology and Innovation Management, Siemens

Dr. Norbert Lütke-Entrup is Head of the Corporate Technology and Innovation Management department of the Siemens Group. In this function he is responsible for technology scouting, fore-sighting, developing the corporate portfolio of technology and innovation fields, coordinating Siemens’ research related relationships with external research partners, and driving the company’s engagement in standardization as well as public research and innovation policy. Norbert Lütke-Entrup holds a Masters degree in physics from the University of Bonn (1996), as well as a Ph.D. in physics from the Université Pierre et Marie Curie, Paris (1999) resulting from his work on superconductivity at the École Normale Supérieure in Paris. In addition he holds an MBA degree from the Collège des Ingénieurs Paris (2000).

Zeina Zakhour  
Senior Expert, Cybersecurity Global CTO, Atos

Zeina Zakhour is the Global CTO for Cyber Security in Atos, creating, by day and a few nights, innovative solutions to be a step ahead of cybercriminals. Zeina covers the end-to-end spectrum of cybersecurity from security advisory, security integration and Managed Security Services to IoT and Big Data Security. She worked closely with Fortune 500 companies to advise them in their security strategy and secure their infrastructure and protect their data. She holds a Bachelor of Engineering in C.C.E from Notre Dame University Lebanon, a M.Sc. From Telecom Sud Paris and an Executive MBA from HEC. She is also a Certified Information Systems Security Professional (CISSP) and a certified ISO 27005 Risk Manager.

Round Table Moderator

Dr. Pietro Cappello  
Professor and Chair, Cybersecurity, Polytechnique

Dr. Pietro Cappello is a Professor and Chair of Cybersecurity at Polytechnique. He is also a researcher in the Cybersecurity Lab (L3C) of the School of Engineering. His research interests include security and privacy in the Internet of Things, blockchain, and machine learning. Dr. Cappello is a member of the IEEE and the ACM. He has published over 100 papers in international journals and conferences. He is the co-founder and co-chair of the IEEE workshop on Blockchain for the Internet of Things and the co-founder of the IEEE workshop on Security at scale. He is also the co-founder and co-chair of the IEEE workshop on Security and Privacy in the Internet of Things.
Come and explore the major security challenges confronting organizations in different industries and attend our business conferences taking place on July 5 and July 6 at the same times each day.

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<th>Time</th>
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| 9:45 – 10:45 | **GDPR Journey to compliance**                        | Alexis Caurette Distinguished Expert, Global Consulting & Integration Director, Atos  
               |                                                                        | Mo Cashman Director of the Enterprise Architecture team, McAfee          |
|            | The new EU General Data Protection regulation imposes heighten burden of compliance on businesses. As it will come into effect in May 2018, organizations must initiate their GDPR journey as soon as possible, and put data privacy and security on every board's agenda. Join us to discover Atos & McAfee Security’s approach to tackle GDPR readiness and break silos in organizations to bring all stakeholders together through a practical efficient methodology. |
| 11:15 – 12:15 | **IoT Security for Manufacturing**                     | David Leporini Head of IoT Security, Atos                           |
|            | Industry 4.0, driven by the Internet of Things and cloud, opened the door to exciting new opportunities for cost savings and performance improvement. Yet this innovation comes at a cost, as the Internet of Things extended the attack surface and introduced new cyber threats to this industry. Join us to learn how Atos R&D Teams developed a product line to secure the adoption of the Internet of Things. We will discuss how we are securing connected cars, smart grid and manufacturing plants and we will introduce our latest innovations such as leveraging Blockchain for IoT Security. |
13:45 - 14:45  **Safeguarding citizen-centric public services**  
Digital transformation will reshape public service delivery. And while different national and local services are at different stages of digital maturity, we believe there is only one direction of travel: towards digitally enabled citizen-centric public services. This is a game-changer for anyone responsible for safeguarding their organization and the citizens they serve.

Join us to discover how public and health institutions can meet the challenge to enhance citizens’ experience, improve and safeguard public services and make efficiencies all at the same time.

**Gordon Morrison**  
Director  
Government Relations and Business Development, McAfee

**Albert Seubers**  
Head of global strategy IT in Cities, Atos

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13:45 - 14:45  **Security & Fraud Prevention**  
Risk management and compliance have an extraordinary role in banks and insurance companies and the cost of effective risk and compliance management is rising with new regulations. Pressure is once again on the increase. Cyber-attacks can have a direct impact on the refinancing condition of a bank for instance or on the cost of the risk for insurers.

The largest threats do not always come from outside the business - even if these external threats are growing, notably with the rise of digital banking and insurance. Criminals engage in everything from money laundering to violating trade embargos, as well as exploiting the complex and unstable world of international regulations in order to conduct ‘grey zone’ transactions.

Join us to discover how to address the increasing number of challenges in the new digital Banking and Insurance world.

**Olaf Badstübner**  
Global Director of Financial Services, Atos
15:15 - 16:15  

**Prescriptive Security Operations Centers: Leveraging big data capabilities to build next generation SOC**

With the ever-changing threat landscape, Security Operations Centers need to adopt new and advanced tools to process the increasing volume of data, and detect and mitigate stealth cyberattacks.

Join us to discover why next generation SOCs are essential to secure your digital transformation journey and your future.

Discuss with us how big data and security analytics use cases can thwart the latest security threats.

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**Farah Rigal**  
Senior Expert, Global SOC Transformation Program Director, Atos

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**Mo Cashman**  
Director of the Enterprise Architecture team, McAfee
R&D, the prerequisite to your security

We have strengthened our leadership in high-volume data processing and analysis with Bull Sequana, the first exascale-class computer, capable of processing a billion billion operations while consuming 10 times less energy than current systems. It is a source of pride for our company and provides a unique competitive advantage for our clients. By 2020, Bull Sequana will reach an exaflops level and will be able to process a billion billion operations per second!

Atos Quantum Scientific Council

Since November 2016, we are proud to be able to count on the support of an Atos Quantum Scientific Council enriched with the immense knowledge and visionary power of its members, all highly renowned researchers. It was set up to give direction and guidance to the research teams.

Its aim is to anticipate the future of quantum computing and to be prepared for the opportunities and also the risks that come with it: opportunities such as superfast algorithms for database search, artificial intelligence or discovery of new pharmaceutical molecules - and risks such as collapse of asymmetric cryptography.

A real collective, human and technological adventure!
Anticipate your upcoming business and technology challenges along with us

Journey 2020: Are you ready to ride the Digital Shockwaves?
Discover our Scientific Community’s (Atos 135+ top scientists) predictions on the evolution of technology through to 2020. Businesses that are able to anticipate and react to the shockwaves in the context of their specific industry will take a leadership role in the digital era. Consider now the impact of the Digital Shockwaves on your business during your journey towards 2020.
ascent.atos.net/journey2020

Atos Ascent Blog
Explore our daily forward-looking, inspirational blog posts on business and technology while discovering our vision and innovative thinking on emerging trends that will shape business in the future.
ascent.atos.net
About Atos

Atos is a global leader in digital transformation with approximately 100,000 employees in 72 countries and annual revenue of around € 12 billion. The European number one in Big Data, Cybersecurity, High Performance Computing and Digital Workplace. The Group provides Cloud services, Infrastructure & Data Management, Business & Platform solutions, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting-edge technologies, digital expertise and industry knowledge, Atos supports the digital transformation of its clients across various business sectors: Defense, Financial Services, Health, Manufacturing, Media, Energy & Utilities, Public sector, Retail, Telecommunications and Transportation. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline. Atos SE (Societas Europaea) is listed on the CAC40 Paris stock index.

Find out more about us
atos.net
ascent.atos.net

Let’s start a discussion together

#AtosTechDays

For more information: marketing@atos.net

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