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Cybersecurity in Europe

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Introduction

The cybersecurity landscape in Europe is as diverse as the 44 countries in it. Their cyber outlook reflects the impact of multiple factors, including varying attitudes towards risk, privacy, and security in each country as well as in key organisations that operate nationally or regionally. This results in different country-specific regulations that vary in terms of scope, requirements, and enforcement.

In addition, the major industries in Europe have unique cybersecurity requirements based on the nature of their operations and the sensitivity of data they handle. The diversity in technology infrastructure and digital maturity levels of industries also influences the complexity and effectiveness of cybersecurity systems, at a time of an increase in the number and complexity of attacks.

This paper will showcase how you can help yourself to prevent these attacks. It outlines the big picture facing European businesses, and considers the regulatory and compliance picture impacting them. It also looks at the evolving cybersecurity landscape, and the implications for businesses.

The paper includes several examples of how organisations have improved their preventive position, and took on their cybersecurity challenges. It sets out the steps they took to gain – or regain – the necessary visibility, control, and planning in place to be able to **a)** prevent, and **b)** react properly and effectively to thwart and be resilient to attacks. Finally, it outlines some recommendations that organisations should follow to help achieve those goals.



ZAC WARREN
CHIEF SECURITY ADVISOR,
EMEA, TANIUM

“The cybersecurity landscape in Europe is undeniably complex and diverse, yet I firmly believe there are simple actionable steps organisations can take to bolster their preventive measures and shield themselves from potential attacks. This paper offers valuable insights into key challenges that European businesses are facing and provides real-world examples of how organisations are successfully elevating their cybersecurity defences.”

The big picture facing European businesses

Across the world, 2023 has been a challenging year for keeping ahead of cyberattacks. While the trends of both a growing number and also increasing sophistication of cyberattacks are global, there are specific factors impacting the European market.

These include the Russian invasion of Ukraine, that has increased geopolitical tension in the region and mobilised more state-sponsored groups, as well as the need for many established companies and institutions to undergo digital transformations and to manage the transition from legacy systems.

The stark picture is that spending on cybersecurity is increasing, because breaches are costing more, and that means organisations have to take preventive measures to counter them. According to IBM's Cost of a Data Breach Report for 2023, the average cost of a data breach in Europe is \$4.67m in Germany, \$4.21m in the UK, \$4.08m in France, and \$3.86m in Italy. Only Canada, the Middle East, and the United States are higher than Germany's cost.

European organisations that have been the victims of high-profile cyberattacks include the Royal Mail (UK), software provider Nebu (The Netherlands), eyewear company Luxottica (Italy), government software provider Xplain (Switzerland), and British Airways, Boots, and the BBC (UK). We are seeing breaches in all industries, from airlines to retail, from banking to manufacturing. And the pace of attacks is increasing.

As a result, the European cybersecurity market is evolving on the back of the digital transformation trend evident across the region. The European cybersecurity market was worth \$33.3 billion in 2022, compared to \$156.1 billion globally, according to GlobalData. By 2026, global security revenues will reach \$232.1 billion, while Europe alone will be \$48.7 billion.

In Europe, managed security services will be the largest segment of the differing products and services in 2026. Revenues will increase by a compound annual growth rate (CAGR) of 8.2% between 2022 and 2026, reaching \$20 billion in 2026 (or about 41% of the European market). Identity & access management will be a distant second, with a 9% revenue share, followed by endpoint security platforms. Fraud prevention and transactional security will be the fastest growing segment, expanding at a CAGR of 13% between 2022 and 2026.

The top three industries driving the growth of the cybersecurity market in Europe are manufacturing, information technology (IT), and retail. As the chart below shows, in manufacturing, information technology and retail, as well as insurance, cybersecurity market revenues are increasing. In the UK, cybersecurity revenues in manufacturing are set to rise from \$363m in 2022 to \$488m in 2026. In retail, the increase will be from \$332 to \$430m, and in insurance from \$221m to \$313m. In Germany, cybersecurity revenues in manufacturing will rise from \$928m in 2022 to \$1.2bn in 2026. In IT, the rise is from \$409m to \$721m, and in retail from \$312m to \$445m. Revenues for France, Ireland, The Netherlands, and Spain follow a similar upward trajectory.

Public investment on cybersecurity in the EU has been fragmented and often poorly supported by government-led initiatives. (Please see Compliance section for details of regulatory measures) As cybersecurity investment is dispersed across several budget categories (research and development, defense, digitalisation, IT, etc.), precise figures are hard to estimate, but EU public spending on cybersecurity is between €1 billion and €2 billion annually, according to the European Investment Bank's *European Cybersecurity Investment Platform* report.

Manufacturing, information technology (IT), and retail are the key drivers of cybersecurity in Europe

Cybersecurity market revenue in 2022 and 2026 by top five industries in select European countries

(Rollover the chart to see the values for 2022 and 2026)

Source:

GlobalData

Note:

The Others segment includes agriculture, arts entertainment, recreation, wholesale, business & professional services, construction & engineering, ICT-related services, miscellaneous services, and real estate, rental and leasing.

Germany and France are expected to maintain their leadership positions in the EU cybersecurity market, followed by Italy, Spain, Poland, and the Netherlands. Additionally, France and Germany spend the most money on cybersecurity in Europe. Prior to Brexit, the UK was the largest EU cybersecurity spender, both in terms of the total volume

of investments and in terms of the number of companies, according to the *European Cybersecurity Investment Platform* report.

As the chart below shows, by revenue, Germany, the UK, and France will continue to be the biggest cybersecurity markets in Europe by 2026.

Germany, followed by the UK and France, will lead the European cybersecurity market by 2026

(Rollover the chart to see the values for 2022 and 2026)

Preventive and resilient, not just responsive

The challenge facing Europe's biggest enterprises is not only in preventing cyberattacks, whether they are delivered through phishing attacks, supply chain hacks, or social engineered targeting, but being resilient enough to recover from them when they happen. Taking steps to defend against a cyberattack will not be guaranteed to prevent one – though it will help – but you can also plan to be as resilient as possible and give yourself the best chance to recover from one.

It helps if, as an organisation, you have cybersecurity investments in place. That is far from always being the case. Too often security practitioners feel their work is ignored or undermined until it is too late. According

to a survey in Tanium's 2022 'Cybersecurity: Prevention is better than the cure' research study, almost two-thirds of respondents (65 percent) agree that IT and security teams believe an event has to occur before they can receive higher cybersecurity investments.

A common feature of growing organisations is the value they place on trying to be responsive, after an attack. Rather less prominence is given to resilience, a less glamorous quality, which tends to float under the radar until it is needed. The 2022 Tanium analysis showed that it sometimes takes a cyberattack to happen before senior leadership teams sign off greater cybersecurity budget with 77% of organisations who have experienced a cyberattack/data breach in the last 6 months agreeing, 'the leadership in my organisation are only concerned by cybersecurity following a cyber security incident'.

79% Eight in 10 (79 percent) of professionals surveyed said that more cybersecurity budget is likely to be assigned following a data breach, not ahead of one. That is shutting the gate after the horse has bolted. The conclusion must be that some senior leaders still do not fully appreciate the preventative role that cybersecurity plays in protecting the business. Without the right toolset in place, an organisation lacks the visibility, control, and planning in place to be able to a) prevent an attack, and b) react properly to it.

32% Less than a third (only 32%) of European businesses have a cybersecurity strategy. The report found that 52% of respondents in Europe reported experiencing some kind of cybersecurity incident in 2022. The incidents cost 32% of European organisations affected at least \$500,000 or more. On the brighter side, 81% of European organisations indicated plans to increase their cybersecurity budget by at least 10% over the next 12 months.

<10% In almost all European countries, less than 10% of companies are deemed sufficiently prepared to tackle today's cybersecurity issues. The UK and Germany are exceptions, with 17% and 11% of companies in a mature state of readiness respectively, according to Cisco's Cybersecurity Readiness Index. Only 9% of European companies have the 'Mature' level of readiness needed to be resilient against cyber risks, says the report. Globally, 15% of companies are at a Mature stage.



While cybersecurity has become a global business issue, customer needs are extremely diverse. For instance, banking, insurance, and financial services, where transactions are primarily digital today, have been investing extensively for a long time to defend their systems. In contrast, the digital revolution in the manufacturing, retail, and healthcare sectors is only getting started. So, in these sectors, vulnerabilities are already being exploited by attackers when security upgrades to legacy systems are not implemented across the value chain.

Recognising these evolving threats, some companies are adopting tools like firewalls and data encryption to protect their IT systems. They are enhancing their expertise to prepare for attacks through crisis simulations and

communication plans. In addition, they must strategically focus and invest in tools for early detection and prompt response in order to be resilient against potential cyberattacks.

Compliance and regulation

The increasing frequency and multifaceted nature of cyber threats are challenging the status quo. Any organisation that fails to comply with its industry's specific regulations is at high risk of a cybersecurity breach. Noncompliance to regulations can lead to other consequences, including legal penalties, damage to the company's reputation, and loss of third-party trust. The need for cybersecurity compliance is now being espoused by governments worldwide, including the European Union (EU).

No business can be completely immune to cyberattacks. Most organisations are at risk.

The key factor in cybersecurity is how resilient you are to those cyberattacks.

At the country-level, the UK has introduced a mandatory reporting obligation for managed service providers to disclose cybersecurity incidents. It also introduced a minimum security requirement, which could see managed service providers fined GBP17 million (\$20 million) for non-compliance.

Please see the EU and national government regulations below and use them as a checklist for compliance (roll over each for more detail).

↓ ROLL OVER THE TABLES BELOW FOR MORE INFORMATION

↓ ROLL OVER THE TABLES BELOW FOR MORE INFORMATION

Source:
GlobalData

The evolving cybersecurity landscape

The evolving landscape for cybersecurity is full of both technology and business challenges. Russia's military aggression against the Ukraine reshaped the threat landscape in Europe in 2022 and that has continued in 2023. The conflict has mobilised

many hacktivists, cybercriminals, and state-sponsored groups.

The typical methods of cyberattacks in Europe include the following (roll over each to find out more):

↓ ROLL OVER THE GRAPHICS BELOW FOR MORE INFORMATION

Critical business sectors and infrastructure

Critical sectors such as transport, energy, health and finance, including insurance, have become increasingly dependent on digital technologies to run their core business. While digitalisation provides solutions for many of the challenges Europe is facing, not least during the COVID-19 crisis, it also exposes the economy and society to cyber threats. Critical national infrastructure is under threat, with criminals ready to take advantage of any IT/Operational Technology (OT) vulnerabilities. In industrial systems, including manufacturing, power, and oil and gas, there is a constant fear of a jump from IT into OT systems. Although it happened in the US, the Colonial Pipeline IT systems attack in May 2021 was a wake-up call for governments and critical national infrastructure organisations worldwide, including in Europe. The hack was the largest publicly disclosed cyber attack against critical infrastructure in the U.S. Fortunately, the pipeline's OT systems that actually move oil were not directly compromised during the attack.

A new approach to defending against cyberattacks – the growth of the zero trust model

A zero trust model provides security against ransomware and cybersecurity threats by assigning the least required access needed to perform specific tasks. Instead of assuming everything behind the corporate firewall is safe, the zero trust model assumes that there is a breach and verifies each request as though it originates from an open network.

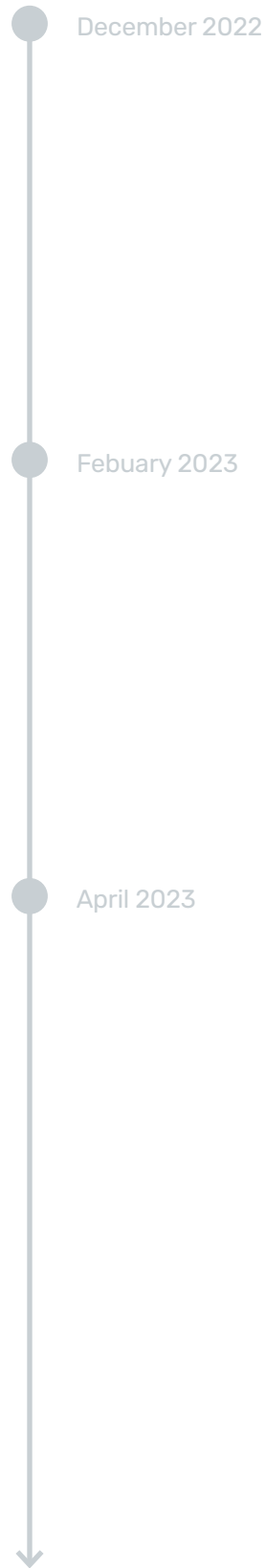
Regardless of where the request originates or what resource it accesses, zero trust teaches organisations to “never trust, always verify.” Every access request is fully authenticated, authorised, and encrypted before granting access. Zero trust offers a solution that is less likely to be breached, and offers better protection for users and data. By authenticating and authorising every user, device, and application – regardless of location – zero trust minimises the risk of a security breach. But it is not easy to implement.

THE BENEFITS OF CHOOSING A ZERO TRUST ARCHITECTURE

- 1 Reduces the attack surface and risk of a data breach.
- 2 Provides granular access control over cloud and container environments.
- 3 Mitigates the impact and severity of successful attacks, reducing cleanup time and cost.
- 4 Supports compliance initiatives.



A timeline of attacks



Going forward, the question is who will be next?

How organisations addressed the cybersecurity challenge

CASE STUDY 1:

FRASERS GROUP

One of the key cybersecurity tasks for organisations is improving their cyber hygiene. UK retailer Fraser Group operates hundreds of stores, employs over 25,000 people, and runs both brick-and-mortar and online operations in 25 countries. In Frasers' fiscal 2021 year, its sales topped £3.6 billion (approximately \$4.7 billion).

Much of Frasers' growth has come via acquisitions, often of troubled companies. It is a strategy that is ongoing. In early 2022, Frasers Group acquired bankrupt online specialist Studio Retail, adding it to a brand portfolio that now includes Sports Direct, Game and Sofa.com.

All that M&A activity also means merging IT systems, a complex task that includes applying cybersecurity best practices. To oversee this challenge, about a year ago, Frasers created a global group for information security and privacy, and which created Frasers' long list of cybersecurity must-haves. These included new capabilities for penetration testing, vulnerability scanning, and greater endpoint visibility. What Frasers really needed was to improve its cyber hygiene, gain visibility into its vulnerabilities and keep its systems secure. Using a dedicated platform enabled Frasers Group to detail what endpoint vulnerabilities it had and what it needed to do to mitigate them.



CASE STUDY 2:



Organisations should ensure that systems are well maintained and administered throughout their life. The devices and interfaces that are used for administrative purposes are frequently targeted, so should be well protected. Spear phishing remains a common method used to compromise accounts with privileged access. Preventing the use of these for routine activities such as email and web browsing significantly limits the ability for a hacker to compromise key systems.

Take the case of Sodexo Benefits and Rewards Services (BRS), a business unit of Sodexo S.A. that provides products and services to roughly 36 million consumers and beneficiaries in over 30 countries. Supporting the BRS group's IT is complex. Some of its entities have tiny IT departments, while others boast as many as 200 IT staff. Their skill sets vary widely, too.

One of Sodexo's problems was a lack of visibility across all its IT assets. BRS didn't know how many endpoints it had, meaning it also didn't know if all the endpoints were properly secured. The second was poor IT hygiene practices. Patching was inconsistent, and much of it was done manually. The third was a strong security roadmap that was hard to execute and follow across all 30+ markets, mainly due to inconsistent skills and tools on the field to push the activities forward, particularly in remote work conditions.

To overcome some of those challenges, BRS launched an initiative around asset patching with security and infrastructure groups teaming up to find and build a global patching solution. The main objectives were to regain visibility across all endpoints and support the deployment of Security solutions, which was not an easy challenge with so many employees working from home during the pandemic.

CASE STUDY 3:



Zurich Insurance Group has been in business for 150 years with a global presence in 210 countries and territories and well-known brands including Farmers Insurance. Zurich provides property and casualty (P&C) and life insurance products and services to individuals, small and mid size businesses, and multinational corporations.

But the company's success also attracts cybercriminals. With more than 100,000 digital endpoints in a geographically distributed and highly heterogeneous environment, Zurich must keep those endpoints safe and secure.

Where Zurich needed help was with incident response. If attacked, Zurich can determine

what occurred, when and where it happened, which devices were affected, and how attacked endpoints can be isolated, mitigated, and then returned to safe operation.

Previously, Zurich lacked tools that could both provide visibility into endpoints and manage them. Its new (Tanium) solution, means it has those capabilities in a centralised dashboard with a set of tools. Paige Adams, Zurich's global chief security officer and his team now have full visibility into their endpoints and are able to keep Zurich's patching up to date. Zurich estimates the savings at up to 100 resource hours a month, based on the automated patching capabilities Zurich has built on top of Tanium's patch tool.

The business implications of cybersecurity

While cybersecurity has become a global business issue, customer needs are extremely diverse. For instance, banking, insurance, and financial services companies, where transactions are now primarily digital, have been investing extensively for a long time to defend their systems. In contrast, the digital revolution in the manufacturing, retail, and healthcare sectors is only getting started. So, in these sectors, vulnerabilities are already being exploited by attackers when security upgrades to legacy systems are not implemented across the value chain.

Recognising these evolving threats, some companies are adopting tools like firewalls and data encryption to protect their IT systems. They are enhancing their expertise to prepare for attacks through crisis simulations and communication plans. In addition, they must strategically focus and invest in tools for early

detection and prompt response in order to be resilient against potential cyberattacks.

A critical problem in cybersecurity is resourcing, especially getting the right security leadership in place.

Finding the human resources: the vital role of the CISO

Chief Information Security Officers (CISOs) are responsible for protecting a company's assets (both physical and digital) from cyberattacks. As their role becomes more vital, CISOs tend to fall into one of three distinct categories (roll-over for more information):

TYPE OF CISO	FOCUS	RESPONSIBILITY	KEY SKILLS
 Technical	Hands-on experts in cybersecurity technology	Manage security tools, systems, and technical aspects to protect from cyber threats	Deep technical knowledge and experience in cybersecurity
 Business-centric	Bridge the gap between cybersecurity and the organisation's goals	Align security strategies with business objectives, ensuring that security supports growth and compliance	Business acumen, risk management, and effective communication
 Risk & compliance	Prioritise risk assessment, management, and regulatory compliance	Identify and mitigate security risks, ensure adherence to regulations, and protect the organisation's reputation	Risk assessment expertise, compliance knowledge, and audit capabilities

However, CISOs are traditionally under-represented on corporate boards. In Europe, Heidrick & Struggles's Board Monitor Europe 2022 report showed that only 5% of seats on boards in 2021 were filled by people with cybersecurity experience of any kind. The increasing frequency and multifaceted nature of cyber threats are challenging the status quo – CISOs are becoming invaluable for board governance.

In a 2023 survey by the World Economic Forum, only 25% of respondents indicated that the most senior cybersecurity executive in their organisation reports directly to the CEO. That said, a key challenge for CISOs is gaining the board's support to enable impactful action. This issue originates from the fact that CISOs often find it difficult to translate technical jargon into business language, such as risk, reputation, and resilience. Exacerbating this is the fact that board executives in many organisations lack the understanding and awareness needed to prioritise cybersecurity.

A Harvard Business Review paper 'Boards Are Having the Wrong Conversations About Cybersecurity' says boards too often focus on protection rather than resilience. In many board meetings, the primary topic is how often the company administers a phishing test and the statistical results. That is the wrong perspective for board oversight. No company can be immune to cyber threats, irrespective of the amount it spends on technologies to prevent attacks. While protecting the assets is critical, planning post-attack recovery is paramount. Every company must assume experiencing a cyberattack and prepare to respond and recover with minimal damage, cost, and reputational impact. The board must view cybersecurity resilience as a key operational parameter, asking the operating teams to design a vision for approaches to respond and recover from an attack.

CORPORATE BOARDS MUST VIEW CYBERSECURITY AS A STRATEGIC IMPERATIVE AND INSIST ON REGULAR UPDATES ON:

- 1 Technical and organisational risks the business faces from potential cyber breaches
- 2 The degree of readiness to temper any damage resulting from the identification of a specific risk
- 3 How quickly will the recovery happen from a breach
- 4 The supply chain risk from potential cybersecurity incidents
- 5 How protected are we to not lose a business day

One of the big factors that may see CISOs reconsidering their career in cybersecurity altogether is the fear of what will happen to their professional reputation if their company gets breached. Both CISOs and chief security officers (CSOs) worry about having their name dragged through the mud after a data breach, or even facing criminal charges. For instance, a breach at Uber in late 2022 resulted in CSO Joe Sullivan being sentenced to serve a three-year term of probation and ordered to pay a fine of \$50,000 after a jury found him guilty of two felonies, including covering up a data breach involving millions of Uber user records.

Closing the skills and responsibility gaps

There is a substantial cybersecurity skills gap, with demand significantly outweighing supply. According to GlobalData's job analytics, the average number of open cybersecurity jobs per month globally in 2022 was just under 180,000. The average number of closed cybersecurity jobs per month was significantly less at a little over 60,000, showing the challenge of filling these vacancies. A 2022 survey by the World Economic Forum found that 59% of businesses would struggle to respond to a cyberattack due to the shortage of cybersecurity talent and skills. Cyberattackers exploit skills gap in organisations to extract information. For example, in 2015 the German federal parliament, the Bundestag, was compromised. A skills gap within the Bundestag's cybersecurity team allowed attackers to exploit vulnerabilities in the network infrastructure.

In addition, there are also responsibility gaps, which refer to situations where there is a lack of clear accountability or defined roles among cybersecurity teams. Cybersecurity professionals move from one company to another, creating ambiguity or a lack of consensus on who is responsible, and to what degree, for specific aspects of cybersecurity. This leads to potential gaps in the system. The general lack of cybersecurity staff everywhere compounds the problem.

Addressing it demands developing clear lines of accountability and clearly defined roles, promoting awareness and education among employees, and fostering collaborations among stakeholders, especially third-party vendors. Regulators also have a vital role to play in this. They must enforce robust security frameworks that clarify responsibilities and incentivise compliance, promoting a secure digital ecosystem.

The table below highlights the key complications faced by European businesses related to cybersecurity (roll over each one for more information).

Recommendations

1

THE INCREASING FREQUENCY AND MULTIFACETED NATURE OF CYBER THREATS ARE CHALLENGING THE STATUS QUO, WHICH IS WHY CHIEF INFORMATION SECURITY OFFICERS (CISOS) ARE BECOMING INVALUABLE FOR BOARD GOVERNANCE.

But they are under-represented on corporate boards in Europe. Only 5% of seats on boards in 2021 were filled by people with cybersecurity experience of any kind. Readers of this paper should ensure they are part of that virtuous 5% quota, and not the opposing 95%.

2

PREVENTION IS ALWAYS BETTER THAN CURE.

Research shows that organisations who take a mainly preventative approach to cybersecurity are significantly less likely to have experienced a cyberattack/data breach than those taking a mainly reactive approach. Given how commonplace cyberattacks/data breaches are, the importance of a robust preventative approach to cybersecurity is a key solution to counteract such threats.

3

TOO OFTEN, MORE CYBERSECURITY BUDGET IS LIKELY TO BE ASSIGNED ONLY FOLLOWING A DATA BREACH, NOT AHEAD OF ONE.

That is shutting the gate after the horse has bolted. The conclusion must be that senior leaders still do not fully appreciate the preventative role that cybersecurity plays in protecting the business. Without the right toolset in place, an organisation lacks the visibility, control, and planning in place to be able to **a)** prevent an attack, and **b)** react properly to it.

4

ANY ORGANISATION THAT FAILS TO COMPLY WITH ITS INDUSTRY'S SPECIFIC REGULATIONS IS AT HIGH RISK OF A CYBERSECURITY BREACH.

Noncompliance with regulations can lead to other consequences, including legal penalties, damage to the company's reputation, and loss of third-party trust. The need for cybersecurity compliance is now being espoused by governments worldwide, including the European Union (EU). No business can be completely immune to cyberattacks. The key factor in cybersecurity is how resilient you are to those cyberattacks.

5

A ZERO TRUST MODEL PROVIDES GREATER SECURITY AGAINST RANSOMWARE AND CYBERSECURITY THREATS BY ASSIGNING THE LEAST REQUIRED ACCESS NEEDED TO PERFORM SPECIFIC TASKS.

It provides a solution that is less likely to be breached, and offers better protection for users and data. By authenticating and authorising every user, device, and application zero trust minimises the risk of a security breach.

Sponsor



Tanium, the industry's only provider of converged endpoint management (XEM), leads the paradigm shift in legacy approaches to managing complex security and technology environments. Only Tanium protects every team, endpoint, and workflow from cyber threats by integrating IT, Compliance, Security, and Risk into a single platform that delivers comprehensive visibility across devices, a unified set of controls, and a common taxonomy for a single shared purpose: to protect critical information and infrastructure at scale.

Tanium has been named to the Forbes Cloud 100 list for six consecutive years and ranks on Fortune's list of the Best Large Workplaces in Technology. In fact, more than half of the Fortune 100 and the U.S. armed forces trust Tanium to protect people; defend data; secure systems; and see and control every endpoint, team, and workflow everywhere. That's the power of certainty.

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HEAD OFFICE

John Carpenter House
7 Carmelite Street
London
EC4Y 0AN
UK

Tel: +44 20 7936 6400

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