Cyber Benchmark

Market maturity and cybersecurity trends

June 2024



Gérôme BILLOIS Partner gerome.billois@wavestone.com (+33) 6 10 99 00 60



Clément JOLLIET Manager clement.jolliet@wavestone.com (+33) 6 46 14 80 12

WAVESTONE

W-CyberBenchmark: A result-driven methodology for an in-depth analysis of the level of cybersecurity maturity

Based on NIST Cybersecurity framework and ISO 27001/2, the **W-CyberBenchmark**, our **360° assessment approach**, goes further and provides:



A comprehensive approach with an **organizational** and a **technology** maturity **assessment**



An assessment that takes into account the **complexity of organizations** that have different entities with different maturity levels



A benchmark vision: **150+ Wavestone customers** have already completed the assessment over the past years, presenting more than 7 millions employees .



How mature are large organizations?



Based on **Wavestone 2024 CyberBenchmark**, overall maturity for large organizations is still increasing **(+1 point since 2023)**, but the pace is slowing down

*Companies with a turnover over \$1B (100+ org.)



Regulations have a major impact on maturity



© WAVESTONE | 3

Cybersecurity spending remain mostly stable in large organizations



Despite the lack of resources, cyber teams are still growing...

Average FTE dedicated to cybersecurity per employee in large organizations



... but differences between sectors remain significant



Talent management is a challenge that must not be overlooked

The cybersecurity workforce landscape is not without complexity...

Persistent talent shortage	Persistent talent shortage Lack of diver		les	Increasing skill gaps
4 million unfilled cybersecurity jobs in the world (+13% compared to 2022) <i>(ISC2 2023)</i>	nillion unfilled cybersecurity jobs in ne world (+13% compared to 2022) (ISC2 2023) (ISC2		cyber	92% of professionals reported having cybersecurity skill gaps within their organizations (<i>ISC2 2023</i>)
Some are starting to invest on <mark>short term</mark> and individual posture		but actions taken are still lacking long term and collective view		
47% of the companies have defined a salary policy and monitoring gaps with HR		0%	of the companies have a materialized career path (66% are building their first)	
60% of the companies have a clear mobility process		6%	of the companies have initiated actions to enhance their internal branding image (20% for external branding)	

How does the MARKET stand against the latest cyberattacks?



Average maturity against **Ransomware** for large organizations

How does the market stand against the latest cyberattacks?

Based on the latest **cyberattacks managed by CERT-Wavestone**, we have selected 29 anti-ransomware measures and assessed our customers' maturity on each of them (concerned topics: attack entry point protection, crisis management, backups, red button...)



Olympic and Paralympic Games expose French companies to a heightened cybersecurity risk

Hacktivist groups are likely to launch widespread DDoS (Distributed-Denial-of-Service) attacks aimed at rendering proposed services unavailable via multiple requests and website defacements aimed at modifying the content shared on the affected sites



Global overview on cyber topics

Large organizations' performance on key cyber topics in our 2024 CyberBenchmark

Maturity level



Cloud security, which was one of the less mature topics the previous year, has experimented the most important increase of maturity between 2023 and 2024 (+5%).

In many cases, the will to carry out a **quick migration** to cloud resulted in an **unsatisfactory** level of security that is being enhanced over the years.

Data

Cloud

Data security has also strongly evolved since 2023 (+4%). Nonstructured data (such as emails and documents) are better classified according to their confidentiality, which is a key prerequisite to implement Artificial Intelligence solutions that will facilitate access to data.

Moreover, data leaks are better **detected** than last year, thanks to manual or automated monitoring.

Cloud security is the biggest progress in 2024, reaching 48.3% for large companies (+5.1%)





New opportunities and challenges

CSPM (Cloud Security Posture Management) solutions and the challenge of **scaling up and putting the responsibility outside cyber teams**



CNAPP (Cloud-Native Application Protection Platform) solutions and the challenge of **converging existing security tools**



Cloud Eraser resilience scenario and the challenge of rebuilding a Cloud IS from scratch

Data security is progressing, while Artificial Intelligence is aiming at disrupting Cybersecurity

Cybersecurity for AI

Artificial Intelligence solutions feed on enterprise data. Before implementing AI, it is essential to secure the access to data and to properly manage access control. Then, you can start thinking about securing the AI solution itself.



Al for Cybersecurity

Cybercriminals have seized AI technologies, which facilitate and accelerate their attacks. Therefore, **CISOs should** level up and also **adopt AI** for the **improvement** of their cyber capabilities. Some identified use cases are:

- Anti-phishing and anti-malware protection
- Threat detection and response
- Identity and Access Management
- Data classification
- **Network filtering** (review of firewall rules and verification of compliance to filtering policy)

Some entry points are being increasingly exploited by cybercriminals...

THIRD PARTIES

OPERATIONAL TECH & INDUSTRIAL SYSTEMS

...and the path to progress on these issues is both long and tortuous

The implementation of a third-party security operational model remains a challenging issue for large organizations





of large organizations include **security clauses in contracts** they signed



of large organizations **regularly audit** their critical suppliers* *Among the 60% that correctly inventory their suppliers

16%

of large organizations test their **incident response** and **recovery plans** with their suppliers across **all critical areas**

...which slow down some clients...

...where others succeed!

Challenges that our clients often face due to the proliferation of suppliers (several thousands or even tens of thousands):

- Lack of synergy and communication with procurement teams
- Lack of understanding of third-party risks
- Unreliable third-party inventory, resulting from a lack of detailed processes

The success Story of a high-performing large group:

- An efficient TPRM operational model (synergy between security and purchasing)
- **30+ FTEs** dedicated to third-party monitoring
- Implementation of a Data Warehouse, inventorying all third parties continuously
- Ability **to link third parties to relevant business chains**, their level of risk, and underlying technical dependencies

A slow but constant improvement of Industrial Control Systems' security for large organizations: 39.9%

Network protection and filtering is the Industrial Control Systems topic that has progressed the most (+4%) since last year **Cyber Resilience** is one of the current challenges for the industrial sector: only **36%** of large organizations manage safely **backups** and prioritize the most critical resources

The industry-related sectors present significant differences in maturity

depending on whether the sector is **regulated** or not.



Of maturity for Sectors with **strong regulatory** constraints ...whereas **other sectors** are noticeably less mature





However, this is meant to change with **NIS 2 directive** in all EU countries. All sectors considered "essential" or "important" (many of which are industry-related) will need to be compliant to the directive (see dedicated focus).

What **TO EXPECT** in the years to come?

NIS 2: what should EU countries expect?

NIS 2 directive **extends the number of sectors** covered compared with NIS 1, will be applied to a lot more of organizations (+50 employees and sales over 10M€) What's more, NIS 2's coverage now extends to the entire company, and not just to perimeters qualified as essential.

Are large organizations ready?

Through the NIS 2 directive, the European Union has set a number of cybersecurity topics that all EU countries must comply with. These topics include:



Let's state the obvious, the cybersecurity landscape will constantly uncover NEW CHALLENGES



How do you fare? Get your own evaluation!

