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Onboarding your Board on Cyber

Effective Cyber Risk Reporting to the Board: Insights and Strategies

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About NVISO



Our Company

NVISO is a pure play **Cyber Security services firm** of 300+ specialized security experts and founded in 2013.

Initially founded in **Belgium**, we've been in **Germany** since 2019, and **Greece & Austria** since 2022.

Our mission is to **safeguard the foundations of European society from cyber attacks**.



Our DNA

We are proud: we are proud of who we are and what we do.

We care: we care about our customers and people.

We break barriers: We challenge the status quo by continuous innovation.


No BS: We keep our promises and don't fool around.



Our Research

We invest 10% of our annual revenue in research of new security techniques and the development of new solutions.

Follow us on:

 @NVISO_security and @NVISO_Labs

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Agenda



- 1** Who do we report to?
- 2** What do we report on
 - 2a** Aspect 1: Evidence over Compliance
 - 2b** Aspect 2: Reporting on Security Roadmap
- 3** Additional Insights & Lessons Learned
- 4** Conclusions & Short Term Action Plan

Classification: Internal

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Who to report to?

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What reporting is expected by NIS2?



Risk-based implementation of cyber security measures

Entities assess their cybersecurity risk



Adoption of measures tailored to the degree of risk, size, probability of incidents, etc.



Compliance with NIS 2 has to be documented



Management **approves** the cybersecurity risk handling measures

Management is **trained** to identify and assess cyber risks

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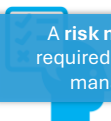
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What reporting is expected by NIS2?

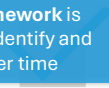


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Cyber security skills in ExCos and Boards must be built and maintained

A risk management framework is required to **consistently** identify and manage cyber risks over time

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Reporting Structures

Three Lines of Defense Model



Key Considerations

- Setup of an Information Security Steering Committee is essential (but can be limited to 1st LoD & 2nd LoD)
- Compose your information security steering committee carefully:
 - Ensure certain executive representation (mandate); &
 - Keep it mind it is better to meet less frequently with the right people than more frequently with the wrong people.
- Don't forget, however, periodic updates to the board, too. Possibly by leveraging the "Audit & Risk Committee", or ad-hoc.

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Bi-annual reporting to ExCo
Annual reporting to Board

Management **approves** the cybersecurity risk handling measures

Management is **trained** to identify and assess cyber risks

Annual cyber training to ExCo & Board

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What to report on?

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Aspect 1: Evidence Over Compliance



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- Too often, there's too much focus on reporting purely based on a compliance framework.
- Compliance checklists, while useful for ensuring adherence to regulatory requirements (such as NIS2), often **fail to address** the dynamic and evolving nature of cyber threats.
- To enhance board reporting and decision-making, it is essential to shift the focus from mere compliance to **evidence-based risk assessments**.
- Continuous monitoring and data-driven insights provide a more **accurate** and **nuanced** picture of the organization's security posture, enabling the board to understand the actual risks and make informed decisions.

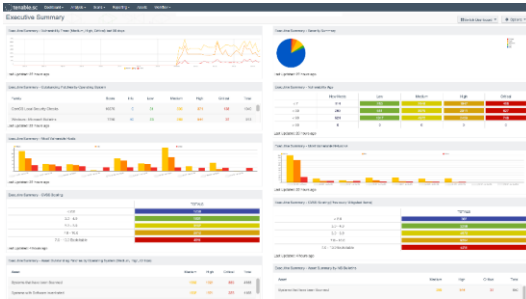


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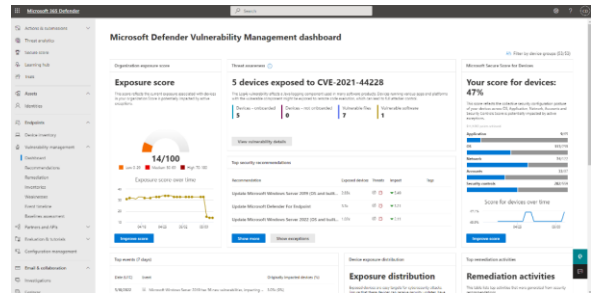
Aspect 1: Evidence Over Compliance Examples



Vulnerability Management Solution: Helps organizations proactively detect weaknesses that could be exploited by attackers, thereby enhancing their security posture. Typically, however Vulnerability Scanners/Management Solutions provide by default Executive/CISO-view dashboards, from which interesting insights can be reported.



<https://www.tenable.com/sc-dashboards/executive-summary-dashboard>



<https://learn.microsoft.com/en-us/defender-vulnerability-management/tvm-dashboard-insights>

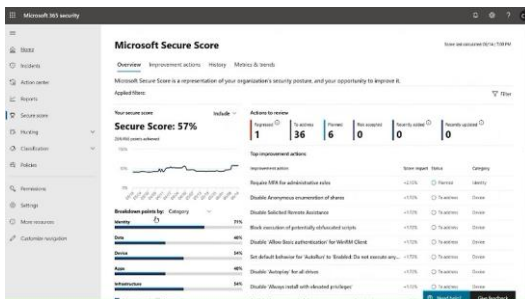
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Aspect 1: Evidence Over Compliance Examples



Provides a clear, numerical value that reflects how well your organization has implemented security controls. The score is determined by assessing the configurations, behaviors, and other security-related activities within your Azure Microsoft 365 tenant.



Source: <https://www.microsoft.com/nl-be/security/business/microsoft-secure-score>

Defender for Cloud Secure Score



Microsoft Defender for Cloud's Secure Score measures an organization's cloud security posture, identifying misconfigurations, vulnerabilities, and compliance gaps.



<https://learn.microsoft.com/en-us/azure/defender-for-cloud/overview-page>

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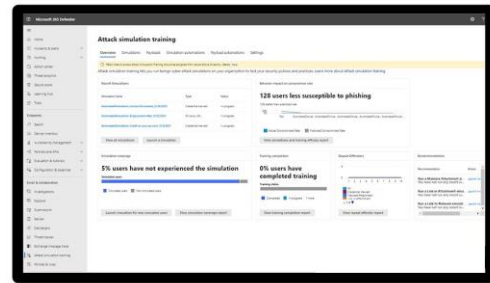
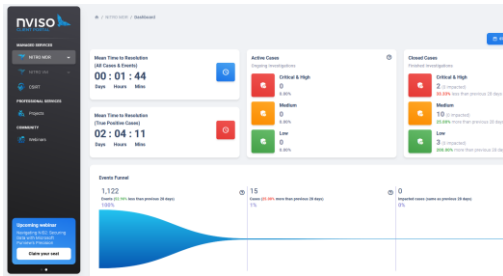
Aspect 1: Evidence Over Compliance Examples



Statistics can have a significant business impact by providing insights into the effectiveness of an organization's security posture and the efficiency of its incident response processes



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<https://www.microsoft.com/en-us/security/business/threat-protection/attack-simulation-training#tabx0116a224db0245ed8d83fd510b6d86c5>

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Aspect 2: Reporting on Security Roadmap

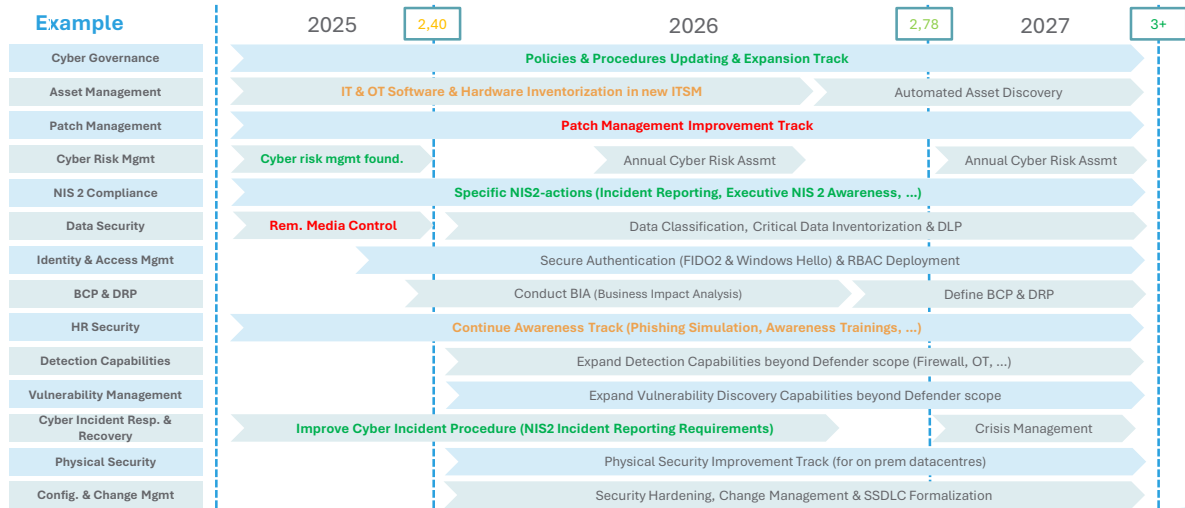
Prioritization of Key/Critical Controls



- In any organization, resources are **limited**, and it is not feasible to protect all assets equally. **Prioritizing key/critical controls** that mitigate the most significant risks is essential.
- In the healthcare sector, examples of critical controls include **data encryption**, **access controls**, and regular **security assessments** of internet-facing assets.
- Identifying the “**crown jewels**” of your organization—those assets that are most critical to patient care and business operations—is a key step in prioritizing controls.
- By prioritizing critical controls, organizations can **focus resources** where they are most needed and provide the board with assurance that key risks are being addressed.

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Aspect 2: Reporting on Security Roadmap



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Aspect 2: Reporting on Security Roadmap



Key Control Indicators

- As an extension to key controls, you can utilize key control indicators (KCIs).
- Key Control Indicators are metrics that provide insights into the effectiveness of critical security controls. For healthcare organizations, relevant KCIs may include:
 - Percentage of systems with Multi-Factor Authentication (MFA) implemented.
 - Percentage of critical assets with regular vulnerability assessments.
 - Time to recover key assets following a cybersecurity incident.
 - Percentage of endpoints with up-to-date antivirus software.
- By focusing on KCIs, IT and security professionals can provide the board with a clear and concise view of the organization's cybersecurity posture.
- In addition to identifying relevant KCIs, it is important to establish benchmarks and targets for each indicator. Regularly reviewing and updating KCIs ensures that they remain aligned with the organization's evolving risk landscape and strategic priorities.
- Not only relevant for the board. This is essential in CyFun & ISO27001 for your NIS2 compliance too.

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Insights & Lessons Learned

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7 Insights / Lessons Learned

- 1 Threat Informed **Approach**
- 2 **Transparency** about Gaps
- 3 Align with **Business Objectives**
- 4 Keep the Message **Simple**
- 5 **Regular** Updates and **Escalation** Process
- 6 Use **External** Benchmarks
- 7 Tell the Story with **Impact**

7 Insights & Lessons Learned

By Freddy Dezeure* and colleagues,
and witnessed at many of our
clients.

<https://www.freddydezeure.eu/24-reporting-cyber-risk-to-boards-ciso-edition>

<https://ccb.belgium.be/en/document/reporting-cyber-risk-boards>



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Wrap Up

Conclusion & advised next steps

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Struggling to onboard the board?



- Define a reporting structure, which involves executives and the board, fit for your organisation: *“It’s better to report less frequent to the right people, than more frequently to the wrong people”.*
- Identify what you want to report on, in the limited time you have with them.
 - Evidence over compliance; and
 - Reporting progress of your roadmap (with the goal to achieve risk-reduction and compliance).
- Keep messages simple and linked to the business objectives, so that it is relatable for people who are not cyber security experts.

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Struggling to onboard the board?

Short term action plan - Practical and essential steps for you to takeaway



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Questions & Answers

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