

# The CISO Function in the Face of AI: The State of Play

2025 GRC: Be Connected! Lustrum Event

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# The disruption of GenAI – and AI at large.

## The 4 situations and their challenges

**GenAI offered by  
Third-Parties**

**GenAI for end-  
users**

**GenAI  
developments**

**GenAI within the  
security team**



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## GenAI offered by Third-Parties



GenAI tools will need extensive access to your data to provide value, and these tools are often third-party software solutions that are managed by small, agile and potentially less secure third-party.



**How would you deal with this?**

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### How would you deal with this?

- Review access privileges of the AI tools on the data
- Review Data leakage prevention controls
- Confirm whether your data is used to further train the models
- Encryption at rest & in transit
- Disaster Recovery of the tool, especially if it can cripple or significantly slowdown a process
- ...

**Execute your Vendor Risk Management process and potentially update it to include AI-specific questions**



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## GenAI for end-users



GenAI, as productivity enablers for end-users, have a vast adoption rate and are being used covertly, outside your span of control. Your data is potentially being copied in tools used under a free or very permissive user license.



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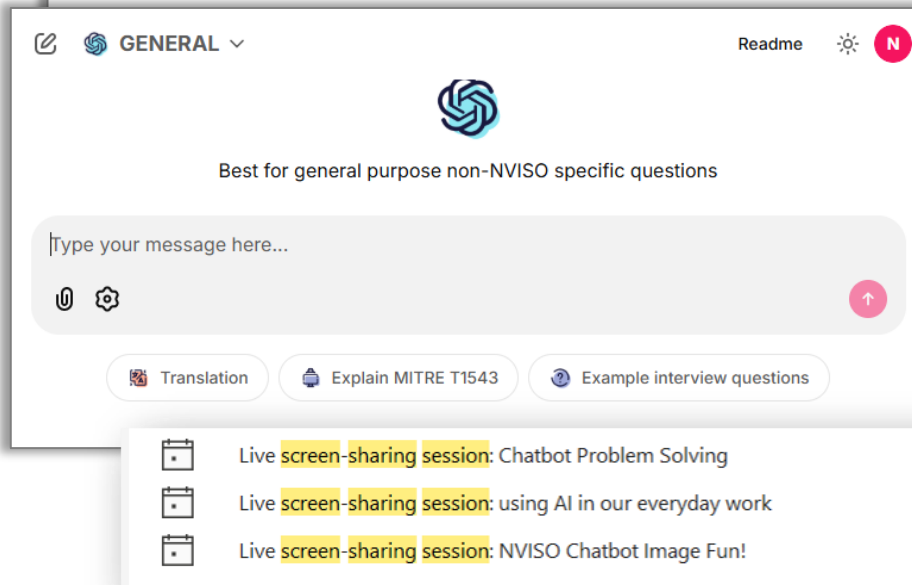
- Trying to limit the use through endpoint management tools, proxies and firewall rules can be a first step, but is very tough
- Implementing DLP is another step
- Develop or update your acceptable use policy to include the use of GenAI
- Clearly define which AI tools are vetted by the company
- Change the culture/perception around the use of AI – communicate openly about it and applaud for its correct use

One of the parties involved, so what is our position as CISO?

## ACCEPTABLE USE POLICY – Artificial Intelligence

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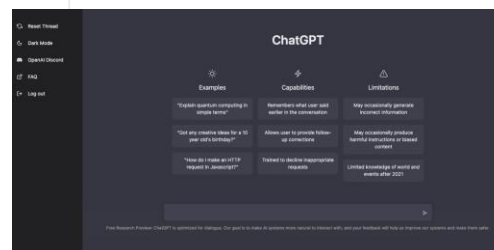


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GenAI for end-users



ChatGPT =



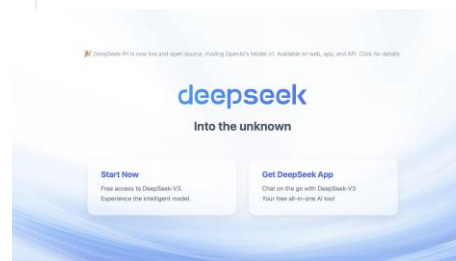
Web Application



Large Language Model  
("LLM")



=



Web Application



Large Language Model  
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## GenAI AGAINST end-users



GenAI being used by hacking groups, for social engineering reasons, luring end-users into doing something they should not do (e.g. connecting on LinkedIn, BEC, money wires etc.)



### How would you deal with this?

- Training & Awareness
- Setup authentication procedure
- Confirm your email (MFA, EUBA tool, DMARC) & browser security (Content filtering, DNS filtering, blocking active content)
- Incident response plan
- Network segmentation

**Extension of your current Training & awareness program**



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## GenAI developments



GenAI tools being developed or embedded into your own products will go beyond the usual functional requirements and the CIA triad. Think about the reliability of the model, bias and fairness, ethics, hallucinations...



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GenAI tools being developed or embedded into your own products will go beyond the usual functional requirements and the CIA triad. Think about the reliability of the model, bias and fairness, ethics, hallucinations...



### How would you deal with this?

- Hire or train people to understand this new technology
- Apply Risk Management (ISO 42001 and/or NIST AI Risk Mgt Framework core)
- Update your SDLC process (to include AI threat modelling and follow OWASPAI)
- Don't forget about the AI Act 😊
- Show; don't tell (e.g. live demos, product roadmap, screen sharing sessions)

**SDLC requires a multidisciplinary approach (legal, compliance, ethics, data privacy, ...), to which security teams can contribute. But security teams also need to broaden their vision beyond the CIA triad**

Sub Domain	ID	Enforce	Statement
Secure Storage - ML Model Training	AI-001	MUST	Data is stored in a secure manner (e.g. encryption with salts).
Secure Storage - ML Model Training	AI-002	MUST	Data is indexed, versioned and considered to be subject to asset management and access control policies.
Secure Storage - ML Model Training	AI-003	MUST	Data is stored on approved and managed systems.
Secure Storage - ML Model Training	AI-004	MUST	Data is never exposed on the internet.

- Live screen-sharing session: Chatbot Problem Solving
- Live screen-sharing session: using AI in our everyday work
- Live screen-sharing session: NVISO Chatbot Image Fun!



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## GenAI within the security team



You could consider this case an actual combination of the 3 previous situations, whereby the security team either has to address the use of AI in acquired tools from the vendors, consumes AI or develops AI for its own benefits (and productivity)



**How would you deal with this?**



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## GenAI within the security team



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### How would you deal with this?

- (Besides what we discussed already in the previous slides)
- Train your people to understand the models / the tools

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**Be an enabler, be in the driving seat of using AI  
securely & everyone wins**





**Thank you very much  
& have a great lunch!**