

RISK ANALYSIS WITH CMMI AND ANONYMOUS AI FROM A BUSINESS DEVELOPMENT PERSPECTIVEAUTHOR



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Secure Risk Management

- For many organizations, it is crucial that certain parts of company information remain protected.
- Risk analyses often—but not always—contain sensitive information that requires special handling.
- Riskmanager AI for Windows offers a secure and encrypted environment, both at rest and during transmission.
- AI services run via an anonymous external server to guarantee data integrity and confidentiality for your AI queries.
- The locally installed risk database is encrypted, as are all automatically generated PowerPoint presentations, PDF reports, and diagrams. This ensures the highest possible protection for both internal and external distribution.
- If needed, you can consolidate your encrypted analyses via encrypted transfer to a master database for centralized and secure risk management.



CMMI Framework

- CMMI stands for Capability Maturity Model Integration and is a framework for improving and evaluating organizational processes
- The method helps organizations:
- Assess how mature and effective their processes are
- Identify areas for improvement
- Achieve consistent and predictable results
- With CMMI, you create structure and quality in your risk work.

The system uses CMMI

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Secure and Encrypted Risk Management

The system is designed for organizations where information must be protected.

All data is encrypted: the local risk database, reports, PowerPoint files, and data transfers.

AI queries are processed through an anonymous external server to ensure confidentiality.

Analyses can be consolidated into a central master database via encrypted transfer.

Automated AI Functions

The AI can generate:

- Risks (including highly specific ones, e.g., cyber risks in autonomous vehicles)
- Consequences
- Mitigation actions
- Probability assessments (an advanced and unique feature)

The system includes automated assessment criteria for maturity and consequence levels.

Alg100 – Calculation of Deficiency Value

The Alg100 algorithm is used to calculate the deficiency value according to:

$$\text{Maturity} \times \text{Consequence} = \text{Deficiency Value}$$

Scale 1–100:

- 1–5: Negligible
- 6–24: Moderate
- 25–35: Significant
- 35–100: Severe

This provides a clear visual prioritization of risks.

Structured Workflow



The system follows a structured CMMI-based workflow:

- Identify or AI-generate risks
 - Identify or AI-generate consequences
 - Assess consequences
 - Assess maturity
 - Assess probability using AI
 - Determine or AI-generate mitigation actions
 - Specify risk owner, date, and status
 - Follow up and revise
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Visualization and Communication

The system automatically generates charts for maturity and deficiency values.

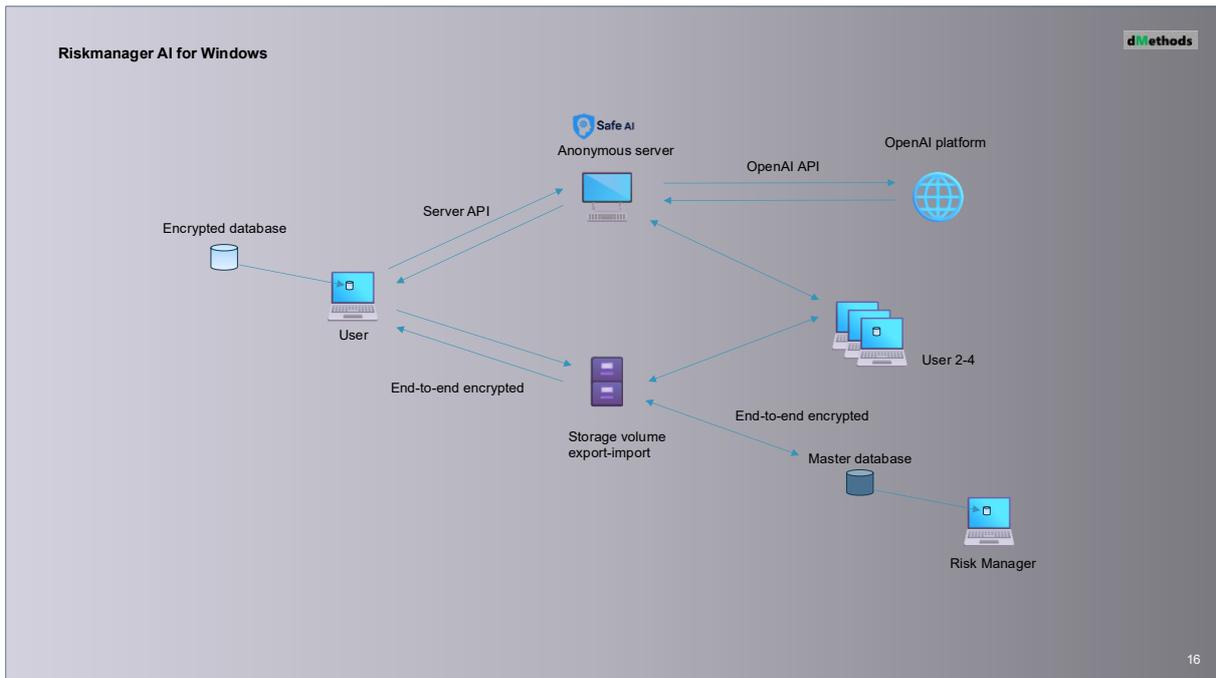
Risks and reports can be distributed securely, both internally and externally.

Advanced Probability Assessment

The method offers a highly advanced and unique AI function for probability assessment

System Architecture

- End-to-end encryption between users, server, and data storage
- Anonymous AI server via the OpenAI API
- Support for multiple users and a central master database



The image is a composite. On the left, a group of four business professionals (three men and one woman) are seated around a conference table, engaged in a meeting. They are looking at a laptop and various documents. In the background, there are charts and a whiteboard. On the right, there is a dark, stormy background with a large wave crashing. The text is overlaid on this background.

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Take Your Risk Management to the Next Level!

Whether you work with risks in:

- Industry
- Healthcare
- Cybersecurity
- Government
- Climate
- Research
- or anything else,

- Riskmanager for Windows helps you gain control over your risk

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