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ISO 42001 – Executive Summary for Organizations (2 Pages)

The AI Management System (AIMS) explained in clear language.

The rise of artificial intelligence in business processes brings major opportunities as well as new risks. Where traditional IT systems operate on fixed logic, modern AI models rely on data, statistics, and learning mechanisms. This makes them powerful yet less transparent and more sensitive to bias, errors, and unintended consequences.

To help organizations adopt AI in a responsible, controlled, and safe manner, the international standard ISO 42001 was introduced in 2023 — the world's first globally recognized framework for an Artificial Intelligence Management System (AIMS).

The standard outlines how organizations can develop, procure, use, and monitor AI systems in alignment with their strategy, risks, stakeholders, and legal requirements. ISO 42001 follows the same High-Level Structure used in ISO 27001 (information security) and ISO 9001 (quality management), making it easy to integrate AIMS into existing governance and compliance processes.

1. Purpose of ISO 42001

ISO 42001 aims to ensure responsible and controlled use of AI. The standard helps organizations to:

- Make AI systems explainable, controlled, and safe.
- Manage risks such as bias, model drift, incorrect decisions, and data issues.
- Strengthen governance and oversight related to AI.
- Demonstrate responsible development and use of AI systems.
- Meet legal requirements, including the EU AI Act.

Organizations working with ISO 42001 can demonstrate professional and transparent handling of AI within their operations and services.

2. Who is ISO 42001 for?

The standard applies broadly to organizations that develop, supply, integrate, or use AI. It is suitable for technology providers, financial institutions, governments, healthcare, retail, transport, and industry — and is scalable from small departments to complex enterprises.

3. Structure of an AI Management System

ISO 42001 consists of ten chapters, each addressing a core component of effective AI management.

3.1 Context of the organization

Defining which AI systems fall within scope, the organization's role (developer, user, provider), and internal and external factors.

3.2 Leadership and AI policy

Top management must be visibly engaged and establish clear AI policies that form the foundation for governance and risk control.

3.3 Planning – AI risks and objectives

Organizations must identify, assess, and manage AI risks — including safety, privacy, explainability, data quality, and societal impact — and define measurable AI objectives.

3.4 Resources, competencies and documentation

The standard requires demonstrable knowledge, roles, responsibilities, data quality processes, tools, and documentation for each AI system.

3.5 Operational controls and lifecycle

Organizations must manage the full lifecycle of AI systems: design, development, testing, deployment, monitoring, updates, and decommissioning. An AI Impact Assessment is required.

3.6 Evaluation – audits and monitoring

Periodic internal audits, management reviews, and monitoring activities are required to track performance, risks, and compliance.

3.7 Continuous improvement

AI systems and processes must be improved continuously based on incidents, new insights, and changing risks.

4. Annex A – Core controls for responsible AI use

Annex A includes a comprehensive set of controls to help organizations implement and operate AI responsibly. These controls are grouped into ten themes:

1. AI policy and strategy
2. Roles and responsibilities
3. Resource management (data, tools, expertise)
4. Impact assessments for individuals and society
5. AI lifecycle management (design to decommissioning)
6. Data management and data quality
7. Transparency and stakeholder communication
8. Responsible use and human oversight
9. Event logging and monitoring
10. Supplier and partner management

Organizations select relevant controls and document them in the Statement of Applicability (SoA).

5. ISO 42001 in practice – What it means for organizations

ISO 42001 is practical in nature and requires:

- Explainability of AI systems.
- Demonstrable data quality — including origin, representativeness, and completeness.
- Documentation of model development, tests, validations, and monitoring.
- Regular risk assessments.
- Clear oversight structures like an AI board.
- Defined incident escalation processes.
- Supplier compliance with the same standards.

For organizations that use AI but do not develop models themselves, the emphasis lies on governance, data management, supplier oversight, and monitoring.

6. Relationship with the EU AI Act

ISO 42001 aligns closely with the EU AI Act requirements, particularly for high-risk systems. It provides an operational framework covering lifecycle management, risk assessment, documentation, transparency, and incident reporting.

Implementing ISO 42001 positions organizations strongly for AI compliance-by-design.

7. What ISO 42001 delivers

- Increased trust from customers, boards, and regulators.
- A structured and auditable approach to AI.
- Reduced exposure to incidents and reputational harm.
- Strong alignment with EU regulation.
- A foundation for external AI assurance.

8. Conclusion

ISO 42001 helps organizations use AI responsibly, transparently, and safely. It provides a concrete framework linking governance, technology, and ethics, supporting growing expectations around AI compliance and assurance.

Integrating AIMS into existing management systems transforms AI from an innovation experiment into a well-governed organizational capability.