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AI Ethics Standards Framework

Version: 4.18.3

Last Updated: 2024-12-28

Overview

RADIANT's ethical AI behavior is guided by principles that map to established industry standards. This document provides full transparency into the standards framework and how each ethical principle aligns with recognized AI ethics guidelines.

Industry Standards

Government & Regulatory

NIST AI Risk Management Framework (AI RMF 1.0)

Field	Value
Code	NIST_AI_RMФ
Full Name	NIST AI Risk Management Framework

Field	Value
Version	1.0
Organization	National Institute of Standards and Technology
Published	January 26, 2023
Status	Required
URL	https://www.nist.gov/itl/ai-risk-management-framework

Description: Comprehensive framework for managing risks in AI systems throughout their lifecycle. Provides guidance on governance, mapping, measurement, and management of AI risks.

Key Functions: - **GOVERN:** Establish AI governance - **MAP:** Map and characterize AI context - **MEASURE:** Assess and analyze AI risks - **MANAGE:** Prioritize and act on AI risks

ISO/IEC 42001:2023 AI Management System

Field	Value
Code	ISO_42001
Full Name	ISO/IEC 42001:2023 AI Management System
Version	2023
Organization	International Organization for Standardization
Published	December 18, 2023
Status	Required
URL	https://www.iso.org/standard/81230.html

Description: First international AI management system standard. Provides requirements for establishing, implementing, maintaining and continually improving an AI management system.

Key Clauses: - **Clause 4:** Context of the organization - **Clause 5:** Leadership - **Clause 6:** Planning - **Clause 7:** Support - **Clause 8:** Operation - **Clause 9:** Performance evaluation - **Clause 10:** Improvement

EU AI Act

Field	Value
Code	EU_AI_ACT
Full Name	European Union Artificial Intelligence Act
Version	2024
Organization	European Union
Published	March 13, 2024
Status	Required
URL	https://artificialintelligenceact.eu/

Description: Comprehensive regulatory framework for AI systems in the EU. Establishes risk-based approach with requirements for high-risk AI systems.

Key Articles: - **Article 7:** Special attention to vulnerable groups - **Article 9:** Risk management system - **Article 10:** Data governance - **Article 13:** Transparency obligations - **Article 14:** Human oversight

Industry & Academic

IEEE 7000-2021

Field	Value
Code	IEEE_7000
Full Name	IEEE 7000-2021 Model Process for Addressing Ethical Concerns
Version	2021
Organization	Institute of Electrical and Electronics Engineers
Published	September 15, 2021
URL	https://standards.ieee.org/ieee/7000/6781/

Description: Standard for addressing ethical concerns during system design. Provides model process for identifying and addressing ethical values.

OECD AI Principles

Field	Value
Code	OECD_AI
Full Name	OECD Principles on Artificial Intelligence
Version	2019
Organization	Organisation for Economic Co-operation and Development
Published	May 22, 2019
URL	https://oecd.ai/en/ai-principles

Description: First intergovernmental standard on AI. Promotes AI that is innovative, trustworthy, and respects human rights and democratic values.

UNESCO AI Ethics

Field	Value
Code	UNESCO_AI

Field	Value
Full Name	UNESCO Recommendation on the Ethics of AI
Version	2021
Organization	United Nations Educational, Scientific and Cultural Organization
Published	November 23, 2021
URL	https://www.unesco.org/en/artificial-intelligence/recommendation-ethics

Description: First global standard-setting instrument on ethics of AI. Adopted by all 193 Member States.

Additional ISO Standards

ISO/IEC 23894:2023

Field	Value
Code	ISO_23894
Full Name	ISO/IEC 23894:2023 AI Risk Management
Version	2023
Organization	International Organization for Standardization
Published	February 1, 2023
URL	https://www.iso.org/standard/77304.html

Description: Guidance on managing risk for organizations using or developing AI systems. Complements ISO 31000 risk management.

ISO/IEC 38507:2022

Field	Value
Code	ISO_38507
Full Name	ISO/IEC 38507:2022 Governance of IT - AI
Version	2022
Organization	International Organization for Standardization
Published	April 1, 2022
URL	https://www.iso.org/standard/56641.html

Description: Guidance for governing bodies on AI governance. Extends IT governance to address AI-specific considerations.

Principle-to-Standard Mapping

Each ethical principle in RADIANT maps to specific sections of industry standards:

Love Others

Standard	Section	Requirement
NIST AI RMF	GOVERN 1.2	Organizations should ensure AI systems respect human dignity
ISO/IEC 42001	Clause 5.2	AI policy shall include commitment to human-centered values
Christian Ethics	Matthew 22:39	Love your neighbor as yourself

Golden Rule

Standard	Section	Requirement
NIST AI RMF	MAP 1.1	Intended purpose and context of use are documented
EU AI Act	Article 9	Risk management system shall consider effects on persons
Christian Ethics	Matthew 7:12	Do to others what you would have them do to you

Speak Truth

Standard	Section	Requirement
NIST AI RMF	GOVERN 4.1	Organizational transparency about AI system capabilities and limitations
ISO/IEC 42001	Clause 7.4	Communication shall be truthful and clear
EU AI Act	Article 13	Transparency obligations for high-risk AI systems
Christian Ethics	John 8:32	The truth will set you free

Show Mercy

Standard	Section	Requirement
NIST AI RMF	MEASURE 2.6	AI systems should minimize potential harms
EU AI Act	Article 14	Human oversight to minimize risks
Christian Ethics	Matthew 5:7	Blessed are the merciful

Serve Humbly

Standard	Section	Requirement
NIST AI RMF	GOVERN 1.1	Policies reflect commitment to accountability
ISO/IEC 42001	Clause 5.1	Top management shall demonstrate leadership and commitment
Christian Ethics	Mark 10:45	The greatest among you shall be your servant

Avoid Judgment

Standard	Section	Requirement
NIST AI RMF	MAP 2.3	Scientific integrity and objectivity in AI assessments
EU AI Act	Article 10	Data governance to avoid bias
Christian Ethics	Matthew 7:1	Do not judge, or you too will be judged

Care for Vulnerable

Standard	Section	Requirement
NIST AI RMF	MAP 1.5	Potential impacts on individuals and communities identified
EU AI Act	Article 7	Special attention to vulnerable groups
ISO/IEC 42001	Clause 8.4	Consider impacts on interested parties
Christian Ethics	Matthew 25:40	Whatever you did for the least of these, you did for me

Alignment Levels

Principles map to standards with different alignment levels:

Level	Description	Icon
derived	Principle was directly derived from this standard	
aligned	Principle aligns with this standard's requirements	
supports	Principle supports this standard's goals	
extends	Principle extends beyond this standard	

Database Schema

ai_ethics_standards

Column	Type	Description
<code>id</code>	UUID	Primary key
<code>code</code>	VARCHAR(50)	Unique standard code (e.g., 'NIST_AI_RMФ')
<code>name</code>	VARCHAR(255)	Short name
<code>full_name</code>	VARCHAR(500)	Complete standard title
<code>version</code>	VARCHAR(50)	Version number
<code>organization</code>	VARCHAR(255)	Issuing organization
<code>organization_type</code>	VARCHAR(50)	government, iso, industry, academic, religious
<code>description</code>	TEXT	Summary description
<code>url</code>	VARCHAR(500)	Link to official standard
<code>publication_date</code>	DATE	When published
<code>is_mandatory</code>	BOOLEAN	Required for compliance
<code>display_order</code>	INTEGER	UI ordering
<code>icon</code>	VARCHAR(50)	Lucide icon name

ai_ethics_principle_standards

Column	Type	Description
<code>id</code>	UUID	Primary key
<code>principle_id</code>	UUID	FK to ethical_principles
<code>standard_id</code>	UUID	FK to ai_ethics_standards
<code>standard_section</code>	VARCHAR(100)	Specific section (e.g., 'MAP 1.1')
<code>standard_requirement</code>	TEXT	Requirement text
<code>alignment_level</code>	VARCHAR(20)	derived, aligned, supports, extends

API Endpoints

GET /admin/ethics/standards

Returns all active AI ethics standards.

Response:

```
{  
  "standards": [  
    {  
      "code": "NIST_AI_RMФ",  
      "name": "NIST AI RMФ",  
      "fullName": "NIST AI Risk Management Framework",  
      "version": "1.0",  
      "organization": "NIST",  
      "organization_type": "government",  
      "description": "The NIST AI Risk Management Framework (RMФ) is a set of guidelines and best practices for the responsible development and deployment of AI systems.",  
      "url": "https://www.nist.gov/rmf",  
      "publication_date": "2023-05-01",  
      "is_mandatory": true,  
      "display_order": 1,  
      "icon": "fa fa-globe"  
    },  
    {  
      "code": "ISO_25000",  
      "name": "ISO 25000",  
      "fullName": "ISO 25000 Quality Management Systems",  
      "version": "2018",  
      "organization": "ISO",  
      "organization_type": "international-organization",  
      "description": "ISO 25000 is an international standard for quality management systems, providing a framework for organizations to improve their processes and products.",  
      "url": "https://www.iso.org/iso-25000-quality-management-systems.html",  
      "publication_date": "2018-01-01",  
      "is_mandatory": false,  
      "display_order": 2,  
      "icon": "fa fa-globe"  
    }  
  ]  
}
```

```

        "organization": "National Institute of Standards and Technology",
        "organizationType": "government",
        "description": "Comprehensive framework for managing risks...",
        "url": "https://www.nist.gov/itl/ai-risk-management-framework",
        "publicationDate": "2023-01-26",
        "isMandatory": true,
        "icon": "Shield"
    }
]
}

```

GET /admin/ethics/principles

Returns ethical principles with their standard mappings.

Response:

```
{
  "principles": [
    {
      "principleId": "uuid",
      "name": "Love Others",
      "teaching": "Love your neighbor as yourself",
      "source": "Matthew 22:39",
      "category": "love",
      "weight": 1.0,
      "standards": [
        {
          "code": "NIST_AI_RMF",
          "name": "NIST AI RMF",
          "fullName": "NIST AI Risk Management Framework",
          "section": "GOVERN 1.2",
          "requirement": "Organizations should ensure AI systems respect human dignity",
          "isMandatory": true
        }
      ]
    }
  ]
}
```

Admin Dashboard

Location: Admin Dashboard → Ethics → Standards

Features

1. **Standards List:** All industry frameworks with metadata
2. **Principle Mapping:** See which standards each principle aligns with

3. **External Links:** Direct links to official standard documents
 4. **Mandatory Indicators:** Red badges for required standards
 5. **Organization Types:** Color-coded by type (government, ISO, industry, academic, religious)
-

Related Documentation

- [RADIANT Admin Guide - Ethics Section](#)
- [Ethical Guardrails Service](#)