



ETSI TC eHEALTH

ETSI TC eHEALTH is the **horizontal coordination body** for ETSI activities in Health ICT. It addresses key aspects such as **data security and privacy, service quality, interoperability, testing, and usability.**

ETSI Guide: The Role of AI in eHealth, Draft ETSI EG 203 922 (V0.0.4)

Why AI Matters in eHealth

AI is a major enabler of modern healthcare, supporting large-scale data processing, pattern recognition, and decision support. It improves diagnosis, treatment, and health system efficiency while raising important challenges related to **trust, privacy, security, and ethics.**

This ETSI Guide defines a **framework for responsible AI use in healthcare**, identifying existing standards and future standardisation needs.

Key Objectives

The Guide promotes:

- Trustworthy and explainable AI

- Ethical alignment with healthcare values
- Strong privacy and security foundations
- Clear paths for future standardisation

Scope

The document:

- Explores how AI accelerates eHealth processes
- Addresses technical, ethical, privacy, and security aspects
- Supports transparency and accountability in healthcare AI

AI, Trust & Transparency

Healthcare depends on trust. To preserve it:

- AI systems must be **visible and understandable**
- The role of AI in decision-making should be clear to professionals and patients

ETSI supports:

- **Static explicability** (clear documentation)
- **Run-time explicability** (understanding AI behaviour)
- **Data transparency**

Responsible Use of AI

- **Non-autonomous AI:** decision-support tool, responsibility remains with health professionals
- **Autonomous AI:** must justify decisions and be subject to ethical oversight

Data Integrity & Privacy

- Health data must have **verifiable sources and traceable custody**
- Access must follow the **principle of least privilege**
- Alignment with ETSI frameworks for **secure and privacy-preserving AI/ML**

Representative AI Use Cases

- **Diagnostic support** (medical images, sensor data)
- **Therapeutic support** (e.g. closed-loop treatment systems)
- **Recovery support**
- **Health demographics and traceability**
- **Predictive incident analysis**
- **Incident monitoring and control**
- **Health professional consultation support** (speech-to-text, record automation)

ETSI TC eHealth plays a vital role in securing the future of AI by creating standards that ensure trustworthy, resilient, and ethical AI systems.

Contact ETSI TC eHealth



TC eHealth Portal:

<https://portal.etsi.org/ehealth>

Ms Wood Suno, ETSI TC eHealth Chair

Wood Suno

Mr Cadzow Scott, ETSI TC eHealth Vice-Chair

Cadzow Scott

Mr Da Silva Francisco, ETSI TC eHealth Vice-Chair

Da Silva Francisco

Dr Lanting Cees J.M., ETSI TC eHealth Vice-Chair

Lanting Cees J.M.

Ms Sylwia Korycinska-Bensaid, ETSI TC eHealth
Technical Officer

Sylwia Korycinska-Bensaid

About ETSI

ETSI is one of only three bodies officially recognised by the European Union as a European Standards Organisation (ESO). It is an independent, not-for-profit body dedicated to ICT standardisation. With over 900 member organisations from more than 60 countries across five continents, ETSI offers an open and inclusive environment for members representing large and small private companies, research institutions, academia, governments, and public organisations. ETSI supports the timely development, ratification, and testing of globally applicable standards for ICT-enabled systems, applications, and services across all sectors of industry and society.

