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Methods for Testing & Specification (MTS); Continuous Auditing Based Conformity Assessment for AI-enabled systems

Document Preview

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Methods for Testing and Specification (MTS).

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Executive summary

The present document specifies the key aspects of Continuous Auditing-Based Conformity Assessment (CABCA) to ensure that AI-enabled systems maintain conformity with evolving standards and regulations throughout their lifecycle. CABCA enables automated, continuous assessment and reporting of AI system compliance, addressing the limitations of traditional point-in-time audits.

Introduction

Artificial Intelligence (AI) systems are increasingly deployed in critical domains, where their compliance with regulations, standards, and ethical guidelines should be continuously assured. The dynamic and adaptive nature of AI, coupled with stringent requirements under frameworks like the EU Artificial Intelligence Act, creates a need for robust, continuous assessment methodologies. CABCA addresses this need by introducing a structured approach to ongoing auditing, replacing static, periodic evaluations with automated, real-time conformity checks. The present document outlines the principles, prerequisites, processes and documentation practices for implementing CABCA within organizations. It emphasizes stakeholder trust, adaptability, and transparency as core principles for sustainable AI assurance. By operationalizing high-level requirements into measurable metrics and continuous evidence collection, CABCA enables organizations to demonstrate reliable and verifiable AI system conformity throughout the entire lifecycle.

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