

## MaxTune-SD\_TSD\_Kapitel-1.1\_v2.1 – Technical System Documentation

Auditable training system for machine learning within the MaxTetralogy

Version: 2.1 Effective from: 25.04.2025 Status: 100/100 – Approved Note:  
Compatibility with Max systems is based on documented interfaces, not fixed version bindings.

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### 1.1 Introduction

MaxTune is the learning organ of the MaxTetralogy – a system that not only adapts models, but structures processes of insight. Unlike classical training systems, MaxTune is not a tool but part of a living architecture. Its goal is to iteratively refine knowledge, detect divergences, and transform them into usable model intelligence within clearly defined policies.

MaxTune is embedded in the MaxSystem, consisting of:

- MaxOneOpen (orchestration & execution)
- MaxAudit (verification & auditability)
- MaxReg (regulation & control)

It operates on principles of full transparency, verifiable responsibility delegation, and structural traceability. MaxTune is not designed for one-time training; it is a permanent process – a circular, segmented, and controlled learning mechanism with clear interfaces to audit, regulation, and system leadership.

This documentation describes MaxTune at a technical, architectural, and regulatory level that allows highly qualified development teams to implement the system fully and without ambiguity. Every component – from functional modules to control logic and assessment structure – is documented such that no interpretation is necessary, only execution.

The documentation follows a systematic and modular structure, enabling each aspect of MaxTune to be captured precisely and without interpretative leeway. The aim is to deliver a consistently traceable, interoperable, and technically realizable system design that meets the highest standards of clarity, reproducibility, and technical depth.

MaxTune is not a product. It is a structure to enable clarity, controllability, and sovereignty in a learning digital environment.

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