

MaxTune-SD_TSD_Kapitel-2.1_v2.1 – Technical System Documentation

Architecture Overview: Macrostructure of MaxTune

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.

2.1 Architecture Overview: Macrostructure of MaxTune

MaxTune's macro-architecture is built upon modular orchestration, segment-level process isolation, and parallelizable learning domains. Its design follows a segmented circular logic, in which each functional unit fulfills a discrete task within the learning cycle, while maintaining continuous interconnectivity.

The macrostructure consists of:

- Orchestration Layer: Receives input from MaxOneOpen, manages routing of learning intents and segmentation rules.
- Policy Compliance Layer: Validates all inputs against active MaxReg configurations and filters unacceptable training states.
- Learning Execution Layer: Deploys the approved segments into tunable containers with adaptive runtime control.
- Audit Output Layer: Prepares post-learning data snapshots, reason graphs, and traceable export events for MaxAudit validation.

Each layer is independently forkable and scalable. The system can thus evolve through modular iterations without monolithic restructuring.

MaxTune's macrostructure does not define algorithms—it defines responsibilities, flows, and enforcement logics. It is the skeleton upon which specialization, training depth, and scalability can be programmatically governed.

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