

MaxTune-SD_TSD_Kapitel-3.4_v2.1 – Technical System Documentation

Audit-Integrated Learning Loops and Trace Markers

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.

3.4 Audit-Integrated Learning Loops and Trace Markers

MaxTune integrates audit mechanisms directly into its learning loops, enabling every transformation to be context-aware, permission-bound, and externally verifiable.

Each learning cycle automatically embeds:

- pre-authorized audit markers
- checkpointed justification steps
- rollback anchors and signatures
- trace linkages to the initiating policy context

Audit integration is not an afterthought—it is foundational. No model state update is accepted unless:

- it can be tied back to a documented learning event
- it satisfies all MaxAudit validation protocols
- it passes policy coherence checks enforced by MaxReg

This ensures that auditability is not an extra layer, but a defining characteristic of how MaxTune learns, adapts, and maintains trust.

Document Hash (SHA256):

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