

MaxTune-SD_TSD_Kapitel-5.4_v2.1 – Technical System Documentation

Forkable Knowledge Paths and Policy-Based Isolation

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.

5.4 Forkable Knowledge Paths and Policy-Based Isolation

MaxTune enables forkable knowledge paths, allowing any learning process to be cloned, branched, or isolated under strict policy control.

Forking mechanisms are applied when:

- learning divergence is anticipated or detected
- parallel hypothesis testing is authorized
- policy revisions require independent validation
- stakeholder or audit mandate demands separation

Each forked path:

- inherits the parent context with traceable deviation
- operates in an isolated container with independent audit trails
- must fulfill policy revalidation before reintegration

Policy-based isolation ensures that forks cannot contaminate the main learning state without explicit approval. MaxTune thus enables exploration without compromising accountability.

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