

v3.4-FND-002 – KPI / CAPEX / OPEX

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1. Objective & Relevance

This document defines the KPI structure, CAPEX/OPEX logic and performance-cost planning models for MaxOneOpen deployments. It supports certification teams, regulators and institutional operators in evaluating economic viability and performance benchmarks.

2. KPI Categories & Value Logic

KPI categories are defined to cover both technical and economic performance aspects. Metrics are validated against live cluster operations and simulated edge deployments.

Benchmark KPI Matrix (excerpt):

KPI Category	Unit	Layer	Twin Type	Cluster Size	Target Value
Latency	ms @ P95	Inference	Standard	4-Node	< 120 ms
Energy Efficiency	I-WpT	Inference	Specialized	8-Node	< 0.35 Watt/token
Resilience Score	Twin Failover Index	Control	Critical	Any	> 0.95 Twin continuity
Cost Efficiency	EUR/output-token	Full Stack	Any	4–12 Nodes	60–80 % vs. OpenAI

3. CAPEX Structure

- Primary categories: Compute Infrastructure, Edge Nodes, Local Storage, Twin Licenses
- Optional add-ons: Visual Interface Shells, Audit Backends, Inference Twin Expansions

4. OPEX Logic

- Electricity consumption per token unit (I-WpT)
- Twin runtime quotas (based on Task Duration & Twin Type)

- Re-certification or audit cycles (per cluster or module)
- Public-fork incentives & subsidy logic

5. Certification Relevance

All forks or deployments must present reproducible KPI metrics and CAPEX/OPEX estimations as part of their certification dossier. Metrics must be transparently logged and externally verifiable through open diagnostic layers.