DEVELOPER TOOLS

KALDONE Compiler Cloud

Standalone local/private compiler service with parser/IR, constant folding, dead-code elimination, profile weights, target-aware lowering, content-addressed cache keys and HTTP compile API

IP-4325 · Engineering software · CLI / local API

Function and architecture

• Standalone local/private compiler service with parser/IR, constant folding, dead-code elimination, profile weights, target-aware lowering, content-addressed cache keys and HTTP compile API

• Separately packaged release

• No mandatory sibling-product runtime

Integration summary

KALDONE Compiler Cloud: Separately runnable local/private compiler service implementing source parsing, compact IR, constant folding, dead-code elimination, profile weights, target-aware lowering, content-addressed cache identity, CLI and HTTP compilation. Delivered as CLI / local API. Integrate the selected version at its documented input/output boundary; retain source and configuration identity with each result. The exact callable API, dependencies and runtime environment are supplied with the controlled release; this public description is not a substitute for that release contract.

Technical record

Canonical identity	IP-4325
Responsibility	Separately runnable local/private compiler service implementing source parsing, compact IR, constant folding, dead-code elimination, profile weights, target-aware lowering, content-addressed cache identity, CLI and HTTP compilation.
Delivery boundary	CLI / local API
Evidence scope	Engineering software
Engineering boundary	Separately runnable local/private compiler service implementing source parsing, compact IR, constant folding, dead-code elimination, profile weights, target-aware lowering, content-addressed cache identity, CLI and HTTP compilation.
Deployment	CLI / local API; 0.9.0
Operational scope	Executable engineering compiler service; complete production backend, broad language compatibility and measured target performance remain open.

Delivery and release binding

- Versioned package and dependency lock
- Deployment environment and access controls
- Input/output schemas and integration examples
- Evaluation scope, support and update policy

Confirm for the selected release: Environment and dependencies, Version / build hash, API compatibility, License and support scope.

Evidence and qualification

5,000 compile cases; 5,000 deterministic recompiles; core + advanced clean-room PASS

Executable engineering compiler service; complete production backend, broad language compatibility and measured target performance remain open.

Canonical status: P2 / EXECUTABLE ENGINEERING COMPILER SERVICE; COMPLETE PRODUCTION BACKEND/COMPATIBILITY/TARGET-PERFORMANCE VALIDATION OPEN

Source basis: Bible v7.42 §114, IP-4325

Evaluation and licensing

Evaluation: Evaluate the named software release. Production: Team or enterprise deployment. Custom work: Workflow and API integration. Rights, pricing, support and acceptance criteria are agreed for the exact scope.

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