MICKAI™

MICKAI EBOOK SERIES · PLAYBOOK No. 12

The Full Feature Tour of Mickai.

Every feature in the Mickai SIOS, mapped to the buyer's use case. The exhaustive reference, written as the one ebook every procurement officer should read before the briefing call.

AUTHOR

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FOREWORD

A note from the author

The Mickai SIOS has six subsystems, twenty-five brains, the Open Audit Record primitive, the browser-resident verifier, the sovereign hardware workstation, the AMT agentic marketing runtime, Mickai Sky, MickaiClaw, Vinis Voice, and the wider operator-side toolkit. This ebook is the full feature tour, mapped per feature to the buyer's use case.

It is the procurement officer's pre-briefing reference. Read this, then schedule the briefing call.

The Mickai substrate primitives are filed at the UK IPO across the GB2607309.8 to GB2611702.8 and GB2611885.1 onwards families. The trade mark Mickai is registered at UK00004373277.

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Founder and named inventor, Mickai LTD · 19 May 2026

PART I · THE SIX SUBSYSTEMS

The architecture in tour form

1. Multi-Brain Orchestration

The orchestration subsystem hosts the Arbiter, Router, Planner, Reasoner, and Reflector brains. Together they handle the dispatch graph, plan construction, reasoning, and reflection on output quality. The buyer-side use case is any workflow that needs more than a single-model response: multi-step research, planning, structured execution.

2. Agent Tooling

Agent Tooling hosts the brains that act in the world: Browser, Code, Email, Calendar, File. The buyer-side use case is any workflow where the AI needs to actuate: scheduling, drafting external messages, executing code, reading filesystem state.

3. Knowledge and Memory

Knowledge and Memory hosts the continuity surface: Hippocampus (episodic), Cortex (semantic), Cerebellum (procedural), Archive (cold storage). The buyer-side use case is any workflow that needs the AI to remember across sessions: account management, ongoing research, long-running operational intelligence.

4. Artifacts

Artifacts hosts the creation brains: Document, Diagram, Slide, Image. The buyer-side use case is any workflow that produces output for human consumption: reports, decks, diagrams, marketing assets.

5. Vinis Voice

Vinis Voice is the SIOS's personality and voice. Brand voice consistency across every output, tone calibration for the audience, register matched to the document class. The buyer-side use case is brand-critical communication where voice consistency is part of the deliverable.

6. Governance Layer

The Governance Layer hosts Policy, Permissions, Revocation, Quorum, and Audit Ledger brains. The buyer-side use case is the regulator-facing surface: anything that needs to demonstrate to an external authority that the AI acted within the operator's policy with cryptographic evidence.

PART II · THE PRIMITIVES

Substrate primitives across the SIOS

7. Open Audit Record

The OAR is the cryptographic substrate underneath the SIOS. Hash-linked CBOR, FIPS 204 ML-DSA-65, browser-resident verifier, deterministic four-verdict output. The buyer-side use case is regulator evidence at incident review.

8. Trust-domain externalisation

The architectural pattern that holds the cryptographic position with the operator and the chain replay with any authorised party. Documented in Ebook #6 of this series.

9. Browser-resident verifier

The static, offline-capable verifier at mickai.co.uk/audit-verifier. The buyer-side use case is anywhere the regulator, the union, the worker, or the third party needs to walk the chain without operator infrastructure dependency.

10. TPM-bound key custody

ML-DSA-65 private keys live in the operator's TPM 2.0, bound to platform configuration registers. Keys never leave hardware. Rotation is policy-driven. Revocation is explicit.

PART III · THE OPERATOR SURFACES

Where the SIOS shows up in the operator's day

11. Sovereign hardware AI workstation

The Mickai-certified workstation that runs the SIOS on the operator's iron. Documented in Ebook #1 of this series.

12. AMT agentic marketing runtime

The Agentic Marketing Team is the first non-SIOS commercial application of the Mickai substrate. Documented in Ebook #14 of this series.

13. Mickai Sky orchestration

The orchestration surface for cross-brain workflows, cross-organisation collaboration, and cross-deployment audit chains. Operator-controlled, federated, OAR-substrate-backed.

14. MickaiClaw agentic browser

The agentic browser interface built on top of the Browser Brain. Web research, form submission, transaction execution, all under operator policy with OAR audit. Operator-facing UI for the hybrid sandbox.

PART IV · BUYER-MAPPED USE CASES

Five buyer profiles, five use-case maps

15. Defence-nuclear

Engineering workstation deployments at BAE Systems Barrow, Rolls-Royce Submarines Raynesway, AWE Aldermaston and Burghfield, Babcock International Devonport and Faslane. Sovereign hardware AI workstation, OAR primitive, twelve-dimension procurement rubric pass.

16. Finance

PRA-regulated banks (HSBC UK, Barclays, Lloyds Banking Group, NatWest Group, Santander UK, Standard Chartered). Transaction monitoring, model risk evidence under SS1/23, OAR-backed audit chains.

17. Pharma

GSK, AstraZeneca, Pfizer UK, Novartis UK, Roche UK, MSD UK, Janssen UK, Eli Lilly UK. Pre-clinical informatics, trial data chain-of-custody, MHRA-aligned audit.

18. CNI

National Grid, SSE, BT, Openreach, Thames Water, Severn Trent, United Utilities. Operational AI under sector-regulator chain-of-custody expectation, NCSC PQC migration readiness.

19. UK SME

Owner-led businesses adopting AI for the first time, the SME owner who wants AI productivity without the data-egress risk. Operator-iron deployment, throughput ledger, OAR substrate for any downstream regulator engagement.

20. Closing

The Mickai feature surface is wide, but the substrate underneath is consistent. Every feature is OAR-backed, every brain is in the audit chain, every buyer's use case is mapped to a substrate primitive that survives vendor change and regulator engagement.

Engineering and procurement leadership at any UK regulated buyer is open to a thirty-minute feature briefing at any time. press@mickai.co.uk.

APPENDIX · ABOUT THE AUTHOR

Micky Irons

Founder of Mickai LTD (Companies House 17166618, England and Wales, registered office 20 Wenlock Road, London, N1 7GU). Named inventor on the Mickai SIOS patent corpus, recorded on the UK Intellectual Property Office public register at numbers GB2607309.8 to GB2611702.8 and GB2611885.1 onwards. Trade mark Mickai registered at UK00004373277 (classes 9 and 42, filed 15 April 2026).

Before founding Mickai, Micky was a Sellafield site worker. The egress constraint observed from inside the regulated workstation is the engineering origin of the substrate described across the Mickai ebook series.

Profiles and links

mickai.co.uk · the canonical Mickai site.

crunchbase.com/person/micky-irons · founder profile.

linkedin.com/in/mickyirons · personal LinkedIn.

github.com/Micky-CMO · open-source position.

linkedin.com/company/mickai · Mickai LTD company page.

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Colophon

Set in Inter Tight (Variable) and Inter Black. Brand voice audited under the Mickai AMT preflight gate; zero violations at publish. © 2026 Mickai LTD. Reproduction permitted for internal procurement and engineering use within UK regulated organisations. External redistribution by written permission of the author.

References and further reading

· Mickai brain taxonomy: mickai.co.uk/brains.

· Mickai OAR Brain documentation: mickai.co.uk/oar.

· Mickai Audit Verifier: mickai.co.uk/audit-verifier.

· Mickai MickaiClaw: mickai.co.uk/mickaiclaw.

· Mickai Sky: mickai.co.uk/mickai-sky.

· Mickai trade mark UK00004373277, classes 9 and 42, filed 15 April 2026.