

## Project Chimera — SRS Report (Canonical)

### Executive Summary

Project Chimera (2026 Edition) defines an autonomous, swarm-based Influencer Network that combines the Model Context Protocol (MCP), a FastRender Swarm, and Agentic Commerce. This report summarizes the SRS, analyzes the Trillion Dollar AI Code Stack, and explains how OpenClaw protocols influenced our openclaw.json integration strategy.

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### Analysis: The "Trillion Dollar AI Code Stack"

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Core idea: The "Trillion Dollar AI Code Stack" positions AI-native infrastructure (model access, data mesh, tooling, governance) as the backbone for next-gen software. Key layers:

- Model Abstraction Layer: standardized model access (MCP analog).

- Context & Memory Layer: vector DBs, RAG patterns.

- Tooling Layer: MCP Servers wrapping external APIs.

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Governance Layer: policy enforcement, traceability, audit logs.

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Relevance to Chimera: Project Chimera maps directly onto this stack:

- MCP provides the Model Abstraction + Tooling layers.

- Weaviate + Redis + Postgres supply the Context & Memory and Transactional layers.

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CI/spec-driven development implements the Governance layer (specs/, schema checks, .cursor/rules).

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Strategic implications: Prioritize interface contracts (JSON Schemas, MCP Tool specs) over internal implementations. This reduces drift when swapping model or tool providers and enables safe automation at scale.

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### OpenClaw Influence & openclaw.json integration

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OpenClaw (Agent Social Network) introduces social protocols for agent interoperability: presence, capability discovery, and capability negotiation.

- How it influenced openclaw.json (design decisions implemented):

- Capability Advertisement: agents publish a small, stable descriptor listing channels, public\_tools, and rate\_limits so other agents can discover and interoperate.

- Presence & Availability: status fields and heartbeat metadata to avoid ghost participants.

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Security: signed capability manifests to prevent impersonation; minimal public surface to avoid leaking secrets.

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Practical integration: openclaw.json acts as a lightweight MCP Server descriptor: it is parsed by the Orchestrator to register agent endpoints and map MCP Tool calls to OpenClaw channels (e.g., social.post → openclaw://agent/<id>/post).

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## Key Recommendations

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Enforce Spec-Driven Development: Keep specs/ authoritative; fail CI on spec drift.

- Interface-first engineering: Implement JSON Schema for Task and Tool payloads early.
- Governance: Add AGENTS.md for operational roles and .cursor/rules for agent behavior.

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Agentic Commerce caution: Prototype with test wallets and strict budget controls (CFO Judge pattern) before enabling live transfers.

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## Deliverables in this repo (current)

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specs/ — functional + technical specs (partial).

- skills/ — skill scaffolds and adapters (db adapter, etc.).
- tests/ — TDD scaffolding and integration tests (Postgres integration implemented).

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docs/Project\_Chimera\_SRS\_Report.md — this canonical report (Markdown).

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## Submission & PDF Export Instructions

To produce a final PDF suitable for upload to Google Drive, run one of the following locally (recommended: pandoc):

- Using pandoc:

```
pandoc docs/Project_Chimera_SRS_Report.md -o docs/Project_Chimera_SRS_Report.pdf --pdf-engine=xelatex
```

- Using Python (headless, no LaTeX):

```
python -m pip install markdown weasyprint
```

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python - <<'PY'
```

```
import markdown, weasyprint
```

```
html = markdown.markdown(open('docs/Project_Chimera_SRS_Report.md').read())
```

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weasyprint.HTML(string=html).write_pdf('docs/Project_Chimera_SRS_Report.pdf')
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Upload the resulting docs/Project\_Chimera\_SRS\_Report.pdf to Google Drive and set Sharing to "Anyone with the link can view." Submit the Drive "file link" (not the folder link).

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Notes on Submission Statement (what to include in the Drive doc metadata)

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Title: "Project Chimera — SRS Report (FDE Submission)"

- Description: include the repo URL, CI status badge, and a short bullet list of included artifacts (specs/, tests/, Dockerfile, Makefile, .cursor/rules).
- Accessibility: Confirm sharing set to "Anyone with the link can view" and include the link in your submission form.

If you want, I can convert this Markdown to PDF inside the container and create docs/Project\_Chimera\_SRS\_Report.pdf for you — shall I proceed to generate the PDF in-repo now? (This will run the pandoc or weasyprint command inside the repo container.)