# EvidenceAI Documentation Suite – Integration Overview

**Purpose**  
This overview explains how the three core EvidenceAI documents (Framework, Guardrails, Runbook) interlock as a unified system specification. It is designed for onboarding new teams and ensuring consistent execution across roles.

**Document Roles**

* **Framework (EA-Framework\_Master-Prompt.docx):** Defines methodology, standards, citation rules, phase structure, and evidence requirements.
* **Guardrails (EA-Guide\_LLM-Behavior-Guardrails.docx):** Establishes expected LLM behavior, do/don’t rules, role separation, and acceptance criteria.
* **Runbook (EA-Runbook\_Operator-Playbook.docx):** Provides operator procedures, folder structures, scripts, QA checklists, and failure handling.

**Unified Phase Map**

1. **Phase 1: Strategy** – Operator provides Hypothesis. LLM generates Query Plan (Precise/Intermediate/Broad).
2. **Phase 2: Acquisition** – Automated execution of queries; preservation of email threads as PDFs.
3. **Phase 3: Analysis** – LLM analyzes Findings, recommends next strategies. Operator applies Decision Gate.
4. **Phase 4: Synthesis** – LLM drafts Legal Memorandum and Summary of Facts with hyperlinked citations.

**Decision Gate (System Checkpoint)**

* Triggered after Phase 3.
* **Operator must:** verify provenance, log contradictions, refine or approve Next Hypothesis, and record rationale.
* Prevents uncontrolled looping or incomplete evidence promotion.

**Roles & Responsibilities**

* **Operator:** Accountable decision-maker. Defines Hypotheses, approves Query Plans, manages redaction, validates provenance, and signs off.
* **LLM Analyst:** Recommends strategies, drafts Findings, identifies contradictions and gaps. Never decides.
* **Automation:** Executes searches and preserves evidence deterministically.

**Cross-Document Integration**

* **Framework → Guardrails:** Framework defines methodology; Guardrails constrain LLM behavior within it.
* **Guardrails → Runbook:** Guardrails specify phase behaviors; Runbook translates them into operator actions and QA checks.
* **Runbook → Framework:** Runbook enforces provenance, failure protocols, and loop discipline, ensuring Framework standards are met.

**Failure Protocols (Shared Responsibility)**

1. Zero-Result Queries – Broaden search, retry, document.
2. API/Script Errors – Retry/backoff, escalate to manual.
3. Malformed Files – Re-export or manual capture.
4. Incomplete Provenance – Block Findings until corrected.
5. Privacy Triggers – Redaction and Operator approval required.
6. Contradictions – Must be logged with citations, escalated when material.

**Metrics & Exit Criteria**

* % of queries executed successfully.
* Number of contradictions identified.
* New participants/leads discovered.
* Zero-result rate across cycles.
* Stop condition: two consecutive cycles without new significant Findings.

**Terminology (Standardized Across All Docs)**

* Hypothesis, Query Plan, Findings, Contradictions, Next Hypothesis, Operator, LLM Analyst, Automation, Evidence Appendix, Decision Gate.

**System Strengths**

* **Evidence integrity:** Provenance as a hard QA gate.
* **Human-in-the-loop:** Operator authority at Decision Gate ensures defensibility.
* **AI augmentation:** LLMs provide strategy options and analysis without overstepping.
* **Unified workflow:** Documents now fully harmonized, eliminating CSV legacy processes.

**Summary**  
The Framework, Guardrails, and Runbook now function as a **single, integrated specification**. The Framework sets the methodology, Guardrails shape LLM behavior, and the Runbook operationalizes the workflow with scripts and QA. Together, they enable a reliable, human-centered, AI-augmented system for legal evidence discovery and synthesis.