Product Requirements Document (PRD): Fusion Suite v2.0 - Real-Time Compliance Auditor

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Revision History

Version	Date	Changes
0.9	2026-10-01	Initial Draft circulated to core stakeholders.
1.0 Final	2026-11-25	Finalized Scope, Budget, and P0/P1 requirements.

Contents

1   Executive Summary

Fusion Suite v2.0 introduces the **Real-Time Compliance Auditor (RTCA)**, a mandatory feature for all Enterprise clients. The RTCA actively monitors all data movement and storage within EnterpriCorp's cloud platform, flagging potential violations of GDPR, CCPA, and internal Data Classification Standards (Section 4.2 of the Handbook) *before* they are committed. This feature shifts compliance from reactive auditing to proactive, preventative security, significantly reducing client regulatory exposure.

2   Goals and Objectives (Q3 2027)

The primary goals for the RTCA are focused on risk mitigation and client adoption.

ID	Goal	Success Metric (KPI)
G-2.1	Decrease critical compliance violations for Enterprise clients.	95% reduction in PII data exposure incidents over 6 months post-launch.
G-2.2	Improve client visibility into compliance posture.	80% of Enterprise clients actively use the RTCA dashboard daily.
G-2.3	Ensure feature scalability and stability.	99.99% service uptime for the RTCA engine, maintaining $< 100ms$ latency.

3   Target Audience and Personas

The primary user of the RTCA is the **Data Compliance Officer (DCO)**.

3.1   DCO Persona Details

- **Goal:** Maintain legal standing and avoid punitive fines.

- **Pain Point:** Receiving large, retroactive compliance reports that are impossible to action immediately.

- **Need:** Immediate, actionable alerts with context (which user, which file, which regulation violated).

4   Detailed Feature Requirements

4.1   Core Real-Time Scanning Engine (Priority: P0 - Critical)

- **REQ-4.1.1 (Data Ingestion):** The RTCA must be able to hook into the Data Fusion Pipeline (DFP) *before* the ETL phase begins to scan raw data streams.

- **REQ-4.1.2 (Scanning Logic):** The engine must utilize the **Proprietary Classification Matrix (PCM)** to detect PII patterns (SSN, credit card numbers, national IDs) and match them against the defined Data Classification Standard (DCS) labels.

- **REQ-4.1.3 (Alert Trigger):** A violation must trigger a notification within **250 milliseconds** of detection.

4.2 Proactive Quarantine Mechanism (Priority: P1 - High)

- **REQ-4.2.1 (Automatic Block):** If data is classified as **Secret/Restricted** but the target storage bucket lacks End-to-End Encryption (E2EE), the data transfer must be automatically blocked (500 Error response).

- **REQ-4.2.2 (Quarantine Notification):** The user attempting the block and the DCO must receive an immediate notification explaining:

  - The rule violated (e.g., "DCS-004: Secret data moved to unencrypted vault").
  - The location of the blocked data (staging area).
  - A remediation link.

- **REQ-4.2.3 (Quarantine Override):** The DCO must have a one-time override mechanism, requiring MFA, to force the transfer, logging the override as a high-risk compliance exception.

4.3 Compliance Dashboard (Priority: P1 - High)

- **REQ-4.3.1 (Visualization):** The RTCA dashboard must display a 90-day trend of violation types (e.g., GDPR Article 17, CCPA Right to Know, Internal COI Policy).

- **REQ-4.3.2 (Export):** The dashboard data must be exportable in JSON and CSV formats, detailing up to 10,000 violations per export.

5 Technical and Non-Functional Requirements

Category	Requirement	Specification
Performance	Latency	Must not increase total DFP ETL latency by more than 1.5%.
Scalability	Throughput	Must handle 50TB of daily input data across 5,000 parallel streams.
Security	Auditing	All RTCA actions (including DCO overrides) must be logged and immutable for 7 years.
Deployment	Environment	Must be deployable as a single Kubernetes service (RTCA-Service) within the EnterpriCorp Core Cloud Compute Service (C3S).

6 Open Questions and Dependencies

ID	Question	Owner	Status
Q-6.1	What is the final definition of PII for the Brazilian LGPD standard?	Legal Team (Sarah M.)	Pending

ID	Question	Owner	Status
Q-6.2	How will we handle retrofitting existing, non-E2EE storage buckets?	Engineering (Alex V.)	Needs Plan
Q-6.3	Will the $100 wellness stipend cover the new RTCA dashboard training course?	HR/Finance	TBD

7   User Stories (for Development Teams)

As a DCO, I need to receive a push notification on my mobile device whenever a Secret data transfer is blocked by the RTCA, **so that** I can respond to critical compliance issues in real-time.

As a Core Engineer, I need the RTCA service to be horizontally scalable and deployable via a simple manifest, **so that** we can meet the 50TB daily throughput requirement without downtime.

As a Sales Director, I need a visualization that shows the reduction in client risk, **so that** I can sell the RTCA feature as a preventative measure rather than just a compliance tool.

8   Rollout Plan (Draft)

1. **Phase 1 (Q4 2026):** Internal Alpha Testing (Dogfooding with EnterpriCorp HR/Finance data).

2. **Phase 2 (Q1 2027):** Beta launch with 10 selected Enterprise clients. Focus on feedback collection for REQ-4.3.1 (Dashboard visualization).

3. **Phase 3 (Q3 2027):** General Availability (GA) launch. Mandatory deployment for all new Enterprise subscriptions.

4. **Phase 4 (Q4 2027):** Deprecation of the old, retrospective audit tool.

9   Budget and Resource Allocation (Q3 2027 Estimates)

Role	Headcount	Duration (Months)	Estimated Cost (USD)
Software Engineering (Back-end)	4	9	$1,200,000
Data Scientist (PCM Logic)	1	6	$150,000
QA/Compliance Testing	2	6	$300,000
Total Estimated Cost	**7 FTE**		**$1,650,000**