Technical Abstract:
EQ SCOTi Infrastructure & Telemetry Logic

Project:

EQ SCOTi: Phase 1.1 “Work Bench Validation

Subject:

SCOTi Linguistic Telemetry Architecture & Data Hygiene Protocol

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1. Executive Summary

EQ SCOTi is an asynchronous linguistic telemetry engine designed to quantify **Emotional Velocity (Ve)** and **Friction Tax** within project environments. Unlike persistent "surveillance" bots, SCOTi utilizes a discrete, event-driven architecture to analyze communication metadata and provide a real-time "Airframe Stability" report for high-stakes delivery teams.

2. System Architecture & Ingestion

The platform is built on a modular, multi-cloud stack designed for maximum isolation and minimum friction.

- **Transport Layer (Ingestion):** Data is ingested via **Google Workspace Business** (Enterprise Edition). This inherits Google's AES-256 bit encryption at rest and TLS 1.2+ in transit.
- **Ingestion Methods:** * **Automated:** Secure BCC to a dedicated SCOTi service address.
    - **Assisted:** Manual weekly transfer/forwarding via the secure Google gateway.
- **Compute Layer (The Brain):** Heavy lifting is performed on **private GPU clusters via RunPod**. These instances are provisioned as siloed, ephemeral containers to ensure data processing occurs on non-shared, dedicated hardware.

3. Data Processing & Privacy Protocol

To meet enterprise "Zero-Trust" requirements, the "Brain" operates under a strict **Asynchronous Processing** model:

- **Zero-Training Guarantee:** Under our Data Processing Addendum (DPA), customer data is never used to train, fine-tune, or improve base LLM weights.
- **Transient Memory:** Raw text is held in volatile memory during the analysis phase.
- **Metadata Extraction:** Once the **(V_e)** markers (Self-Awareness, Motivation, Empathy, etc.) are extracted, the raw text is purged. Only the anonymized sentiment metadata is retained for the **EQ Scorecard**.

4. The Telemetry Logic (Ve)

SCOTi maps linguistic patterns against a custom EQ framework to generate leading indicators of project drag:

- **Friction Tax:** Quantifies the energy loss caused by misaligned communication or high-urgency/low-empathy cycles.
- **Emotional Velocity (Ve):** Measures the speed and stability of a team's collaborative "Nervous System."
- **Interoperability:** The output is designed to be consumed as a "Environmental Ground Truth" layer, capable of correlating with frameworks like the **Agent Boss Score (ABS)**

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to validate pilot readiness against airframe stability.

5. Maturity & Compliance Roadmap

- **Current State:** Defined technical controls, MFA, role-based access (RBAC), and centralized logging.
- **Target (2H26):** SOC 2 Type I certification and full alignment with the EU AI Act (2026) transparency requirements.

6. Data Residency & Sovereignty

For the Phase 1.1 (Dog-food) Trial, we prioritise jurisdictional alignment to ensure compliance with local privacy frameworks (such as the Australian Privacy Act or GDPR).

- **Ingestion Layer:** Google Workspace Business data residency is pinned to the **Australia/Sydney** region to minimize cross-border data transfer.
- **Compute Layer (RunPod):** Processing is executed on GPU clusters located in **US-West**. Note that while compute may be offshore, our **Transient Processing** protocol ensures that raw data is never "stored" in these regions; it is processed in volatile memory and purged immediately upon metadata extraction.
- **Metadata Storage:** All anonymized **EQ Scorecards** and **(V_e) telemetry** are stored in our secure, encrypted database located in **Australia**.

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Comparison Table

Contrasting "Traditional Sentiment Analysis" (Constant monitoring, shared models, permanent storage) against "EQ SCOTi" (Asynchronous, siloed compute, transient data).:

Feature	Legacy Sentiment Analysis	EQ SCOTi (Phase 1.1 - dog-food trial)
In-Call Presence	Persistent "Bots" (High social friction)	**Asynchronous Ingestion** (Zero social friction)
Data Transport	Various/Unsecured API hooks	**Google Workspace Business** (TLS 1.2+ / AES-256)
Compute Environment	Multi-tenant / Shared instances	**Siloed RunPod GPU Clusters** (Dedicated Hardware)
Model Training	Customer data used for fine-tuning	**Zero Weights-Training.** Feedback siloed for local calibration only.
Data Retention	Permanent Archives of raw text	**Transient Processing** (Purged post-analysis)
Output Focus	Productivity/Surveillance	**Emotional Velocity (Ve) & Friction Tax**
Human Element	Black-box automated decisions	**Trust Symmetry** (Human-in-the-Loop recalibration)

Note on key SCOTi Differences:

While legacy sentiment tools often introduce operational drag through invasive monitoring, the EQ SCOTi architecture is engineered to eliminate the "Observation Tax." Our model is built on three core pillars of technical integrity:

- **The "Flight Recorder" Paradigm (vs. Surveillance):**
  Most AI interventions fail because constant "in-room" monitoring creates social friction and performative behavior. By utilizing

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Asynchronous Ingestion, SCOTi operates as a passive "flight recorder." It captures environmental data without intruding on the live collaborative space, ensuring the integrity of the team's natural **Emotional Velocity (Ve)**.

- **Dedicated Compute Sovereignty (vs. Shared Infrastructure):**
  To eliminate risks of "Prompt Injection" or "Data Cross-Contamination" inherent in shared LLM environments, we utilize **Siloed RunPod GPU Clusters**. Your project correspondence never touches a public multi-tenant queue; it is processed in a dedicated, ephemeral container that is wiped immediately upon completion. This ensures your intellectual property remains mathematically isolated.
- **The Symmetry of Trust (vs. Top-Down Reporting):**
  Traditional analytics are weaponized "reports on people." SCOTi is engineered for **Trust Symmetry**. By providing the same insights and **(V_e) Nudges** to the participants as we do to the leadership, we move from surveillance to a **Feedback Loop**. This "Human-in-the-Loop" calibration allows the team to correct the AI's baseline, ensuring the scorecard reflects the ground truth of the "Work Bench.

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