

USER & ENTERPRISE MANAGEMENT — FINAL SPEC v1.1

Status:  LOCKED

Owner: Super Admin (Founder)

Scope: User management, enterprise management, demo systems, AI narration, BTE integration

Compatibility: 2030-ready, AI-native, solo-founder scalable

1 SYSTEM INTENT (WHY THIS EXISTS)

This system is designed to:

1. Support **both PLG (individual) and enterprise-led adoption**
 2. Prove value via **behavioral evidence**, not claims
 3. Scale to **10,000+ enterprises** with **one founder**
 4. Make **AI explain reality**, not invent it
 5. Allow **continuous vertical experimentation** without polluting real data
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2 ACTORS & ROLES (FINAL)

2.1 Role Hierarchy

	Role	Scope	Authority
	SUPER_ADMIN	Global	Absolute
	ENTERPRISE_ADMIN	One enterprise	Managerial
	ENTERPRISE_USER	One workspace	Execution
	INDIVIDUAL_USER (REAL)	Personal	Execution
	INDIVIDUAL_USER (DEMO_SYSTEM)	Personal	Testing

3 USER TYPES & CREATION PATHS

3.1 Individual User — REAL (Self-Serve)

Created by: User via frontend

Purpose: PLG funnel, bottom-up adoption

- Gets personal workspace
 - NBA guidance enabled
 - BTE tracked (real signals)
 - Demo by policy (config-driven)
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3.2 Individual Demo User — SYSTEM (Super Admin)

Created by: Super Admin

Purpose:

- Vertical testing
- Sub-vertical validation
- Persona/policy QA
- Sales demos
- Internal simulations

Key Properties

- Not tied to any enterprise
 - Excluded from revenue & conversion analytics
 - Included in QA telemetry
 - Cannot convert automatically
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3.3 Enterprise Admin

Created by: Super Admin

Purpose: Manage enterprise execution, not AI

Capabilities:

- Invite / disable enterprise users
- Upload campaigns & templates
- View AI briefs & evidence
- Monitor team execution

Restrictions:

- Cannot modify personas
 - Cannot modify policies
 - Cannot view raw telemetry
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3.4 Enterprise User

Created by: Enterprise Admin or Super Admin

Purpose: Execute sales workflows

Capabilities:

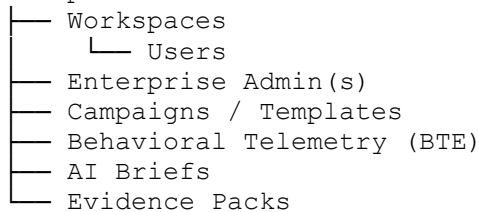
- Discovery / Enrichment / Outreach / Follow-up / Decision (as per vertical)
- NBA consumption
- Task execution

Restrictions:

- No user management
 - No exports (unless policy allows)
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4 ENTERPRISE MODEL (FINAL)

Enterprise



Enterprise is:

- Tenant boundary
 - Billing boundary
 - Evidence boundary
 - AI narration boundary
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5 DATABASE SCHEMA (RENAMED & FINAL)

5.1 Enterprises

```
CREATE TABLE enterprises (  
  id UUID PRIMARY KEY,  
  name VARCHAR(255),  
  domain VARCHAR(255),  
  industry VARCHAR(100),
```

```
type VARCHAR(20) CHECK (type IN ('REAL','DEMO')),
status VARCHAR(20),
plan VARCHAR(50),
demo_expires_at TIMESTAMP,
metadata JSONB,
created_at TIMESTAMP DEFAULT NOW()
);
```

5.2 Workspaces

```
CREATE TABLE workspaces (
  id UUID PRIMARY KEY,
  enterprise_id UUID REFERENCES enterprises(id),
  name VARCHAR(255),
  is_default BOOLEAN,
  settings JSONB
);
```

5.3 Users

```
CREATE TABLE users (
  id UUID PRIMARY KEY,
  email VARCHAR(255) UNIQUE,
  enterprise_id UUID,
  workspace_id UUID,
  role VARCHAR(50) CHECK (
    role IN (
      'SUPER_ADMIN',
      'ENTERPRISE_ADMIN',
      'ENTERPRISE_USER',
      'INDIVIDUAL_USER'
    )
  ),
  is_demo BOOLEAN DEFAULT false,
  demo_type VARCHAR(20), -- SYSTEM | ENTERPRISE
  demo_expires_at TIMESTAMP,
  status VARCHAR(20),
  metadata JSONB
);
```

6 DEMO POLICY SYSTEM (NO HARD-CODING)

6.1 Demo Policy Table

```
CREATE TABLE demo_policies (
  id UUID PRIMARY KEY,
  scope VARCHAR(30) CHECK (
    scope IN (
      'INDIVIDUAL_REAL',

```

```

        'INDIVIDUAL_SYSTEM',
        'ENTERPRISE'
    )
),
max_duration_days INTEGER,
idle_expiry_hours INTEGER,
max_users INTEGER,
max_actions_per_day INTEGER,
allow_exports BOOLEAN,
allow_automation BOOLEAN,
created_by UUID,
updated_at TIMESTAMP
);

```

6.2 Demo Evaluation Logic

- Read from `demo_policies`
- Evaluated hourly or on event
- Expiry reasons logged
- No constants anywhere in code

7 STAGE GRAPH SYSTEM (FLEXIBLE, VERTICAL-AWARE)

7.1 Canonical Stage Vocabulary

```

DISCOVERY
ENRICHMENT
OUTREACH
FOLLOW_UP
DECISION
EXECUTION

```

7.2 Stage Graph Definition

```

CREATE TABLE os_stage_graphs (
    id UUID PRIMARY KEY,
    vertical_id UUID,
    stages JSONB,
    transitions JSONB
);

```

- Each vertical defines its own graph
 - Some flows may skip stages
 - DECISION is a **stage**, not an engine
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8 ENGINE RESPONSIBILITIES (FINAL)

Component	Role
Discovery Engine	Unknown identification
Enrichment Engine	Context expansion
Outreach Engine	Execution
Follow-up Engine	Sequencing
BTE	Observation + signal derivation
NBA	Deterministic action selection
SIVA Intelligence	Reasoning + narration

 **No Decision Engine exists**
Decision is handled via **policy + NBA + SIVA reasoning**

9 BEHAVIORAL TELEMETRY ENGINE (BTE)

What BTE Does

- Tracks execution behavior
- Computes derived signals
- Produces evidence

What BTE NEVER Does

- Never decides
- Never acts
- Never learns autonomously
- Never writes to core entities

Example Signals

- Hesitation index
- Execution velocity
- Follow-through rate
- Idle decay
- Missed opportunity count

All signals are **tagged**:

REAL | DEMO_SYSTEM | DEMO_ENTERPRISE

10 AI NARRATION (MANDATORY)

Super Admin AI Brief

- Portfolio health
- At-risk enterprises
- Demo misuse
- Product friction signals

Enterprise Admin AI Brief

- Team execution summary
- Where users stall
- What to coach next
- Evidence-backed explanations

Enterprise / Individual User

- Inline NBA reasoning
- Execution tips
- No hallucinations

AI never hides evidence.

1 1 FRONT-END NAVIGATION

Super Admin

Users

- Individual (Real)
- Individual (Demo)
- Enterprise Users
- Admins

Enterprises

- All
- Demo
- At-Risk
- Evidence Packs

Control Plane

- Verticals
- Sub-Verticals
- Personas
- Policies
- Regions

System Intelligence

- BTE
- Thresholds
- Drift Signals

Settings

- Demo Policies
- Feature Flags
- Security

Enterprise Admin

Overview (AI Brief)
Teams
Users
Campaigns
Evidence

Individual / Enterprise User

Dashboard
Tasks / NBA
Execution History
Insights

1 2 SECURITY & GOVERNANCE

- Enterprise-level RLS enforced everywhere
- Demo users isolated
- All actions audited
- Demo expiry irreversible without Super Admin
- No cross-enterprise data leaks possible

1 3 SUCCESS GUARANTEES

Dimension	Guarantee
Scale	10k enterprises, 100k users
Ops	Solo founder manageable
Trust	Deterministic replay
AI	Evidence-first
UX	No clutter, no confusion

Dimension	Guarantee
Future	Vertical-agnostic



FINAL LOCK STATEMENT

Enterprise replaces tenant everywhere
Demo behavior is config-driven
Individual Demo Users are first-class
Stages are graph-defined
BTE observes, NBA decides, AI explains
No hard-coding, no silent magic