

PRIME_AI Professional

Autonomous Infrastructure & Intelligence Suite

Version 6.5.0 Deployment Report

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1. Executive Summary

PRIME_AI Professional (formerly SentinelX) is a next-generation Enterprise IT Management solution. It combines real-time infrastructure visibility with autonomous security intelligence and automated validation protocols. Version 6.5 introduces the "Automation Lab," allowing for human-free diagnostic testing across the entire stack.

2. Technical Stack (A-Z)

- Backend: Node.js (Express) - Handling real-time API requests and service orchestration.
- UI: Vanilla HTML5 / CSS3 (Neon-Glassmorphism) / JS (GSAP Animations) - For a premium, zero-dependency frontend.
- Intelligence Core: Python (Flask) + PyTorch + Transformers - Powers the PRIME_AI Local LLM.
- Database: SQLite (Dev) / PostgreSQL (Prod) via Sequelize ORM - Resilient data persistence.
- Real-time: Socket.IO - Bi-directional streaming for logs and system metrics.
- Reporting: PDFKit & XLSX - Automated stakeholder documentation.
- Process Management: Systeminformation & Multer - Hardware monitoring and log ingest.

3. Module Breakdown

Home & Welcome

The hub for branding and quick navigation to specialized modules. v6.5 features the new Autobot-inspired PRIME core branding.

System Overview

Real-time WebSocket charts visualizing CPU, RAM, and Network trends with 0.1ms ingest latency.

Log Analysis

Neural-assisted log triage. Identifies high-risk anomalies automatically using localized NLP patterns.

Automation Lab (v6.5 New)

Predefined testing suites: API Stress, Security Scans, DB Integrity. Runs autonomously and generates diagnostic reports.

Security Pulse

Global threat monitoring with radar visualizations. Tracks regional risk vectors and anomalous signatures.

Audit Vault

Searchable historical archive of every system event. Immutable storage for compliance and investigation.

4. Future Updations (Roadmap)

- v7.0: 3D Topology Visualization (WebGL) - Immersive infrastructure maps.
- Voice Command Core: Integrated PRIME_AI voice-to-action protocols.
- Distributed Agent Fleet: Native Go-based agents for cloud-scale monitoring.
- Heal-On-Detection: Autonomous self-healing scripts triggered by AI confidence scores > 95%.

INTERNAL DOCUMENTATION: PRIME_AI Professional is a sovereign entity project. All screenshots and data contained within are simulated for security validation purposes.