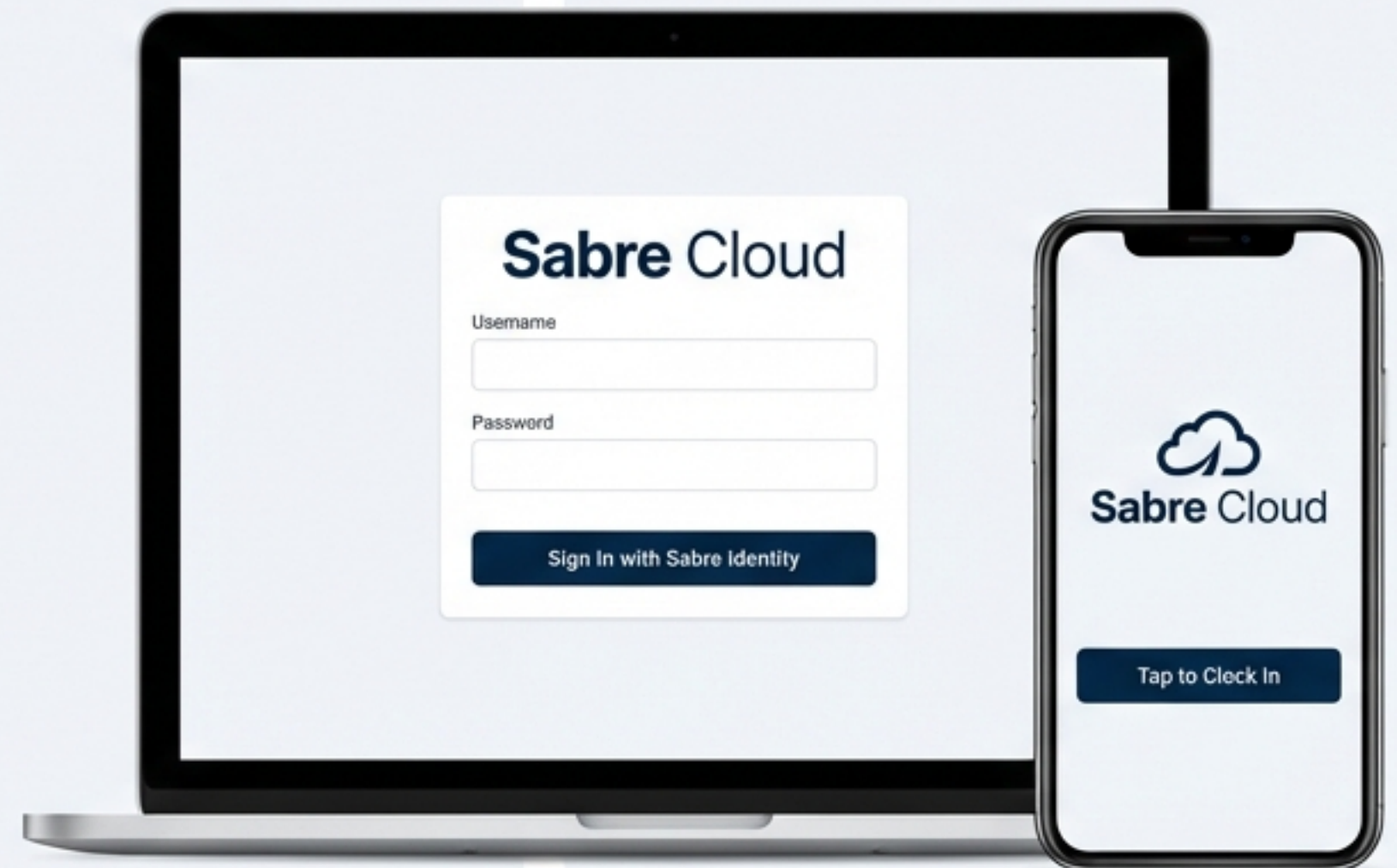


Sabre Cloud: Enterprise Workforce Management & Time Attendance

A unified ecosystem for the modern,
distributed workforce.



A Complete Ecosystem for Workforce Intelligence

Sabre Cloud consolidates biometric clocking, real-time analytics, and payroll integration into a single, cloud-hosted platform built on a robust Django and PostgreSQL foundation.



Operations

- Biometric integration
- Shift scheduling
- Multi-site management



Human Resources

- Leave workflows
- Personnel hierarchy
- Pandemic health screening



Technical

- REST API
- Multi-tenancy
- Self-contained deployment

Architecture: Cloud-hosted & Multi-company | **Stack:** Python 3.7 / Django Backend | **Database:** Bundled PostgreSQL (Port 7496)

Real-Time Visibility into the Workforce Heartbeat



Total Employees:
1,240



Present:
850



Absent:
45



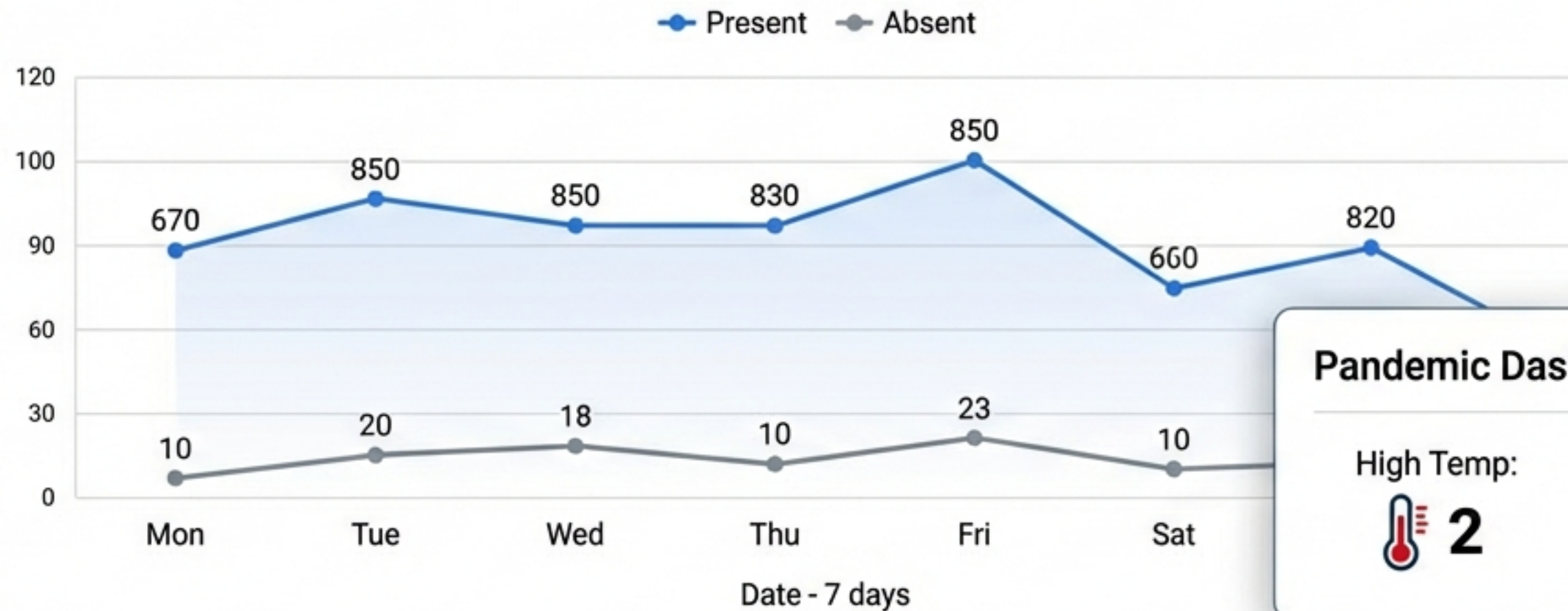
Late Arrivals:
12



Early Departures:
3

Attendance Comparison

Show by: All 7 Days



Device Status

- Main Gate Online
- Warehouse 1 Online
- Canteen Offline - Red Dot

Pandemic Dashboard

High Temp:



2

No Mask:



5

Warning: **1.2%**

Normal: **98.8%**

Hardware Agnostic Device Connectivity

Seamlessly connect and manage biometric terminals across multiple sites using the specialized iClock module.



Sabre Cloud
(Push/Pull Protocol)

ZKTeco / Biometrics



Fingerprint, Face, Palm

Suprema & Hikvision



Access Control Terminals

Universal Support



Standard Push Protocol


Management Capabilities

- **Auto-Discovery:**
Network scanning
- **Real-Time Sync:**
Instant data transfer
- **Remote Ops:**
Firmware updates,
Time sync, Clear data
- **Dashboard Integration:**
Heartbeat monitoring

Precision Tracking Down to the Second

The Core Attendance (att) module transforms raw biometric data into actionable timesheets with automated logic.

Transaction Log

Employee ID	Name	Time	Type	Verification	Location
001	J. Smith	07:58:02	Clock In	Face	-26.204, 28.047
002	S. Ndlovu	08:05:00	Clock In	Fingerprint	Warehouse A
003	A. Davis	08:15:12	Clock In  Late	Manual Override	Admin



Verification: Photo capture at clocking.



Location: GPS coordinate capture.



Logic: Auto-calc: OT, Late Tolerance, Break Time.

Dynamic Scheduling and Shift Logic


Manage complex rostering with drag-and-drop simplicity and rules-based automation.

Shift Capabilities

- **Rotating Shifts:**
Weekly/Monthly patterns
- **Flexi-time:** Open shifts with core hours
- **Night Shifts:** Midnight crossing logic
- **Split Shifts:** Non-continuous hours

Shift Scheduler			
	Mon	Tue	Wed
Alice	09:00 - 17:00 (Normal)		
Bob		22:00 - 06:00 (Night)	
Charlie			Flexi (Core 10-3)

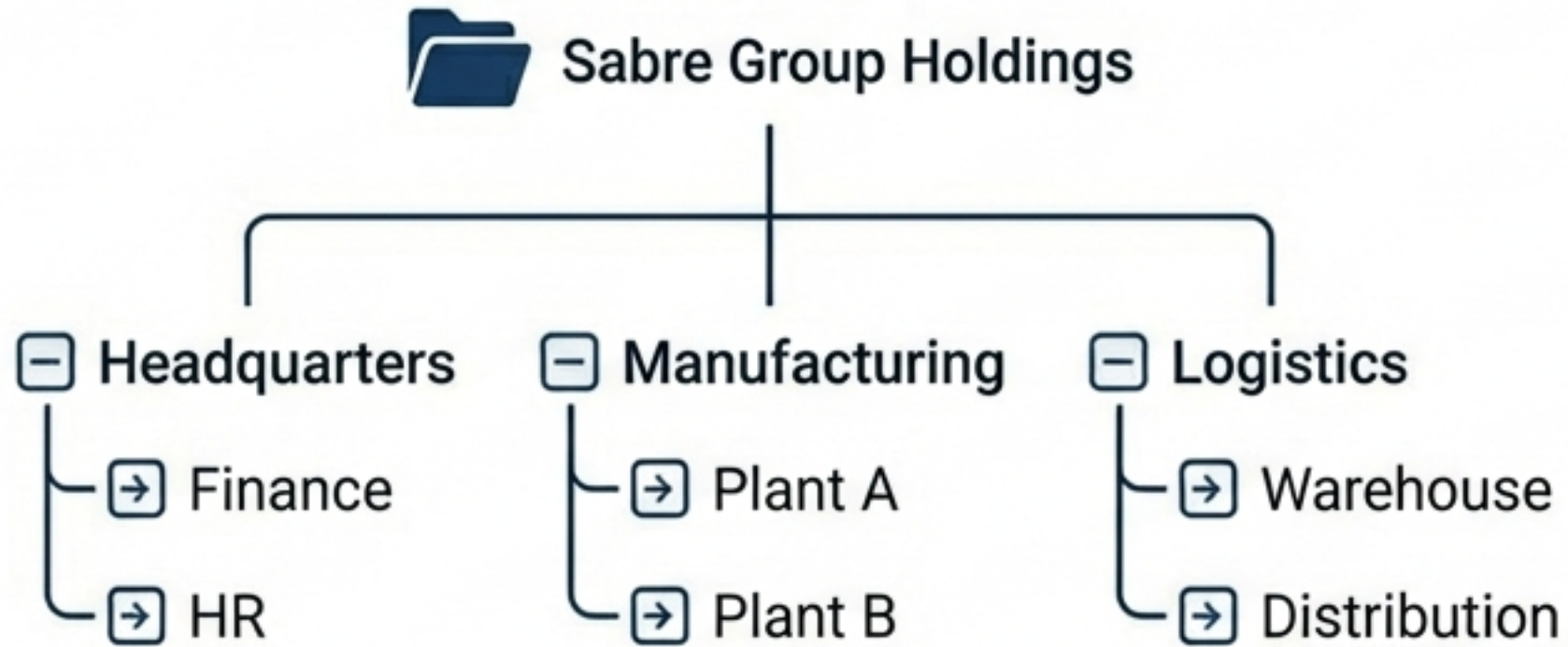
Auto-Assignment & Conflict Detection



Comprehensive Personnel Management

A 360-degree view of your workforce structure managed through the Personnel Module.

Hierarchy Tree

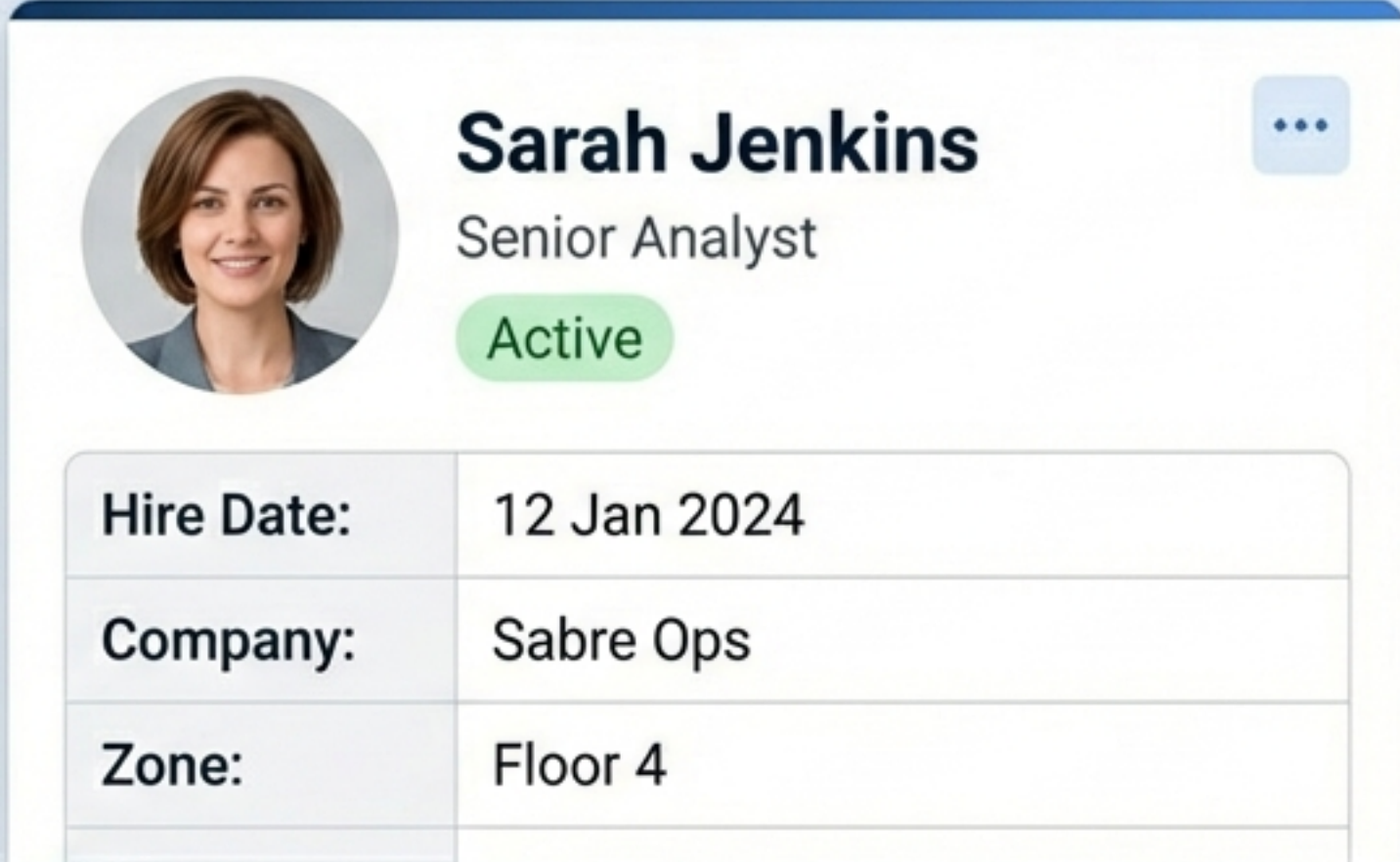


```
graph TD; Root[Sabre Group Holdings] --- H[Headquarters]; Root --- M[Manufacturing]; Root --- L[Logistics]; H --- Finance; H --- HR; M --- PlantA[Plant A]; M --- PlantB[Plant B]; L --- Warehouse; L --- Distribution;
```

Sabre Group Holdings

- Headquarters
 - Finance
 - HR
- Manufacturing
 - Plant A
 - Plant B
- Logistics
 - Warehouse
 - Distribution

Employee Profile Card



Sarah Jenkins
Senior Analyst
Active

Hire Date:	12 Jan 2024
Company:	Sabre Ops
Zone:	Floor 4

Lifecycle Management: Bulk Import (Excel) | ID Card Generation | Resignation Tracking

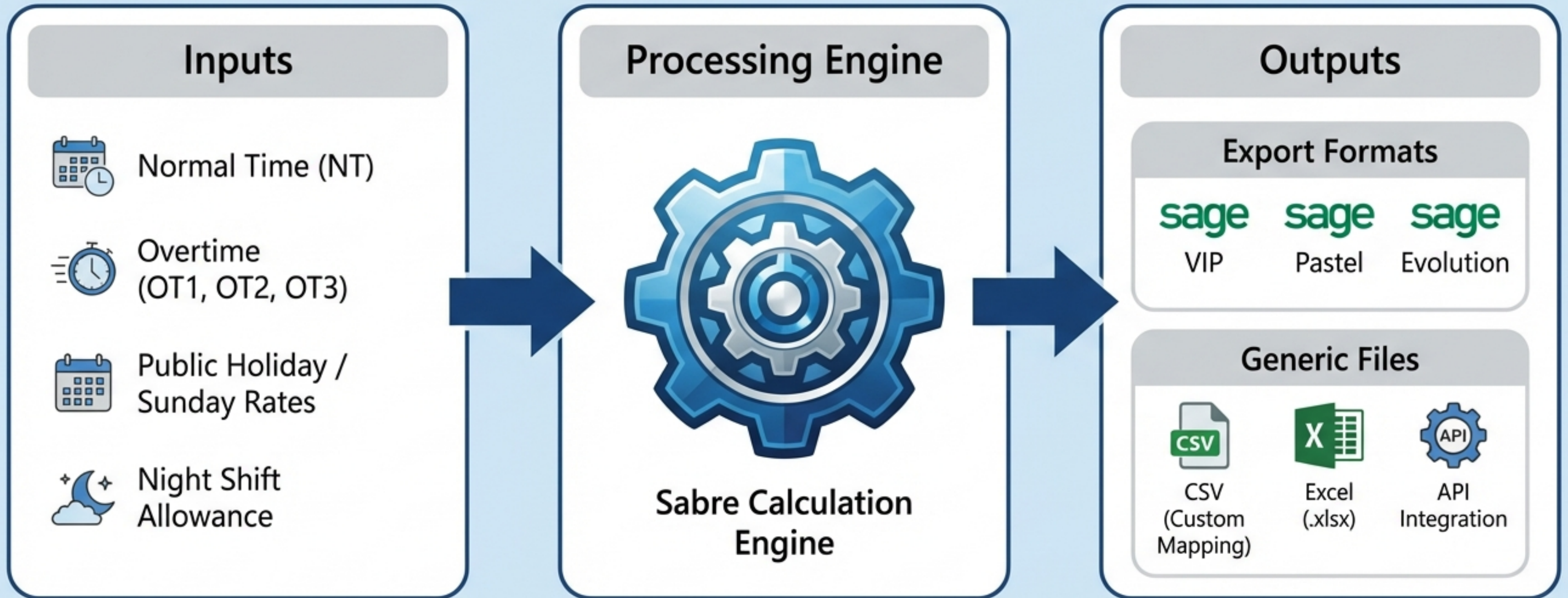
Streamlined Leave Workflows

Replace paper forms with digital self-service and automated accrual tracking.



Seamless Payroll Integration

Bridge the gap between operations and finance with the Payroll Module.



Advanced Reporting Suite

Powered by a dedicated Sabre Reports Standalone Server (Port 84).

Key Report Types

- 1. Grand Summary:**
Analysis of NT, OT, and Holiday hours.
- 2. Exception Report:**
Late arrivals, early departures, absenteeism.
- 3. First In / Last Out:**
Daily boundary analysis.
- 4. Attendance Register:**
Daily status grid.

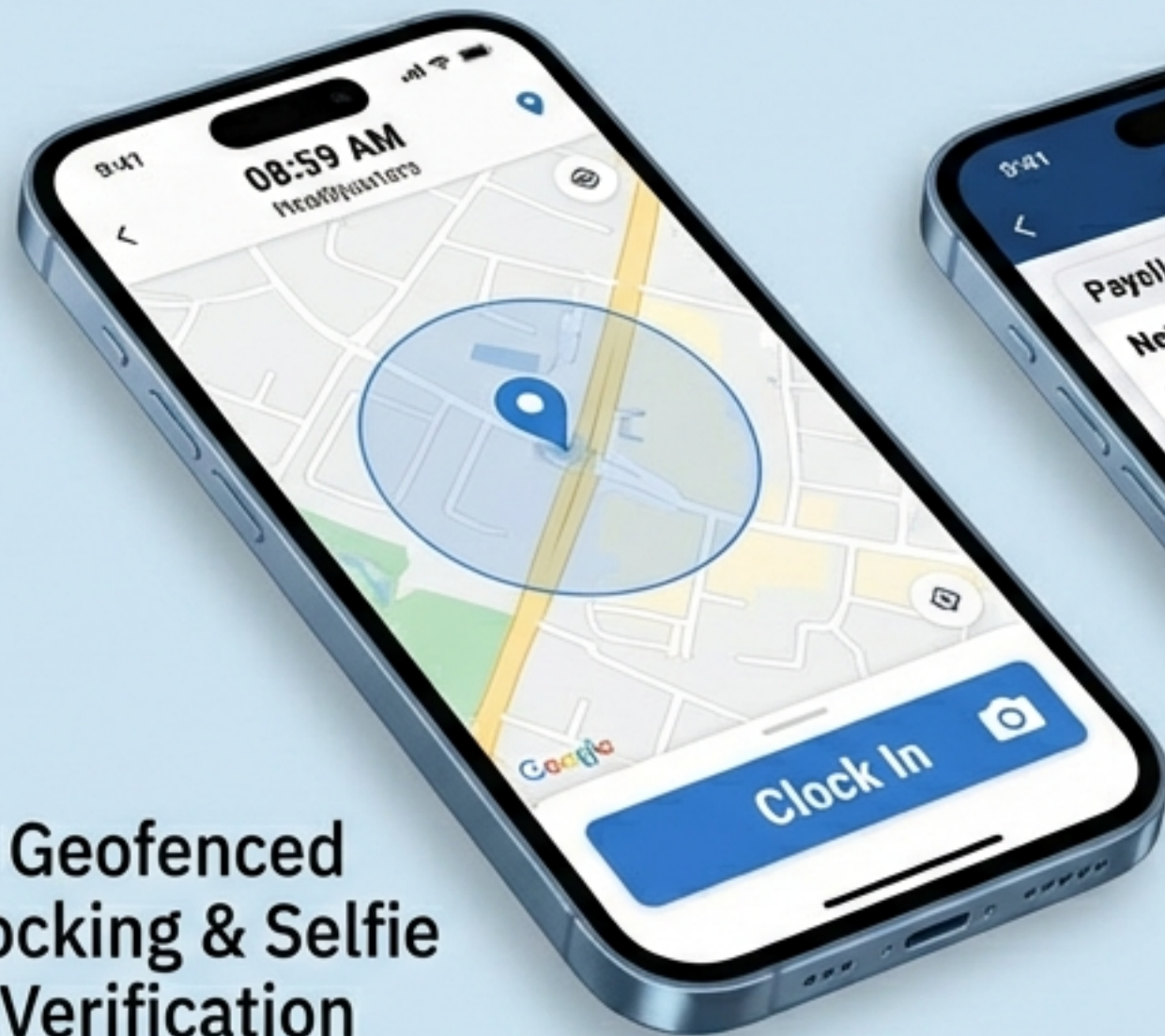
GRAND SUMMARY REPORT

Emp Code	Name	Department	Normal Hours	OT 1.5	OT 2.0	Sunday	Public Holiday	Total
E0123	John Smith	Engineering	160.00	12.50	0.00	0.00	0.00	172.50
E0124	Maria Garcia	Engineering	158.00	5.00	2.00	0.00	8.00	173.00
E0125	David Lee	Marketing	160.00	0.00	0.00	8.00	0.00	168.00
E0126	Sarah Kim	Marketing	160.00	8.00	0.00	0.00	0.00	168.00
E0127	Chris Brown	Sales	152.00	20.00	5.00	8.00	8.00	193.00
Department Total			790.00	45.50	7.00	16.00	16.00	874.50

Exports: PDF, Excel, CSV

The Mobile Experience

Empowering the workforce with a full-featured companion app.



Geofenced
Clocking & Selfie
Verification



Self-Service:
Payslips & Leave

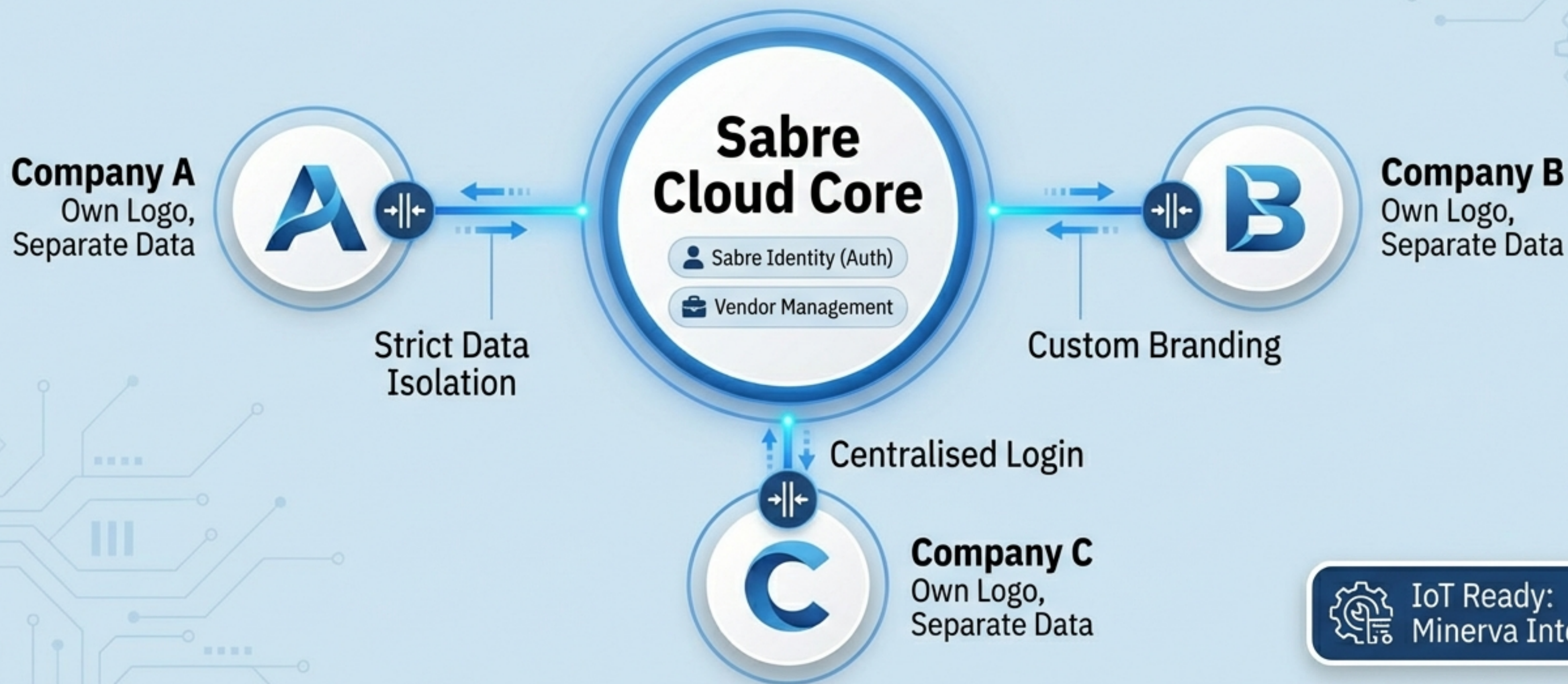


Manager Dashboard
& Approvals

Features: Offline Sync, Push Notifications, Secure REST API

Cloud Architecture & Multi-Tenancy

Built for scale, allowing the management of multiple legal entities from a single login via the Cloud Module.



IoT Ready:
Minerva Interface

Enterprise-Grade Security & Access Control

Protecting sensitive workforce data with granular permissions and robust encryption.



Role-Based Access (RBAC)

Roles: Admin, Manager, Employee, Vendor. Granular permissions.



Data Scoping

Department-level and Area-based visibility restrictions.



Encryption & Protection

SSL/TLS (HTTPS), CSRF prevention, Secure session management.



Audit & Compliance

Comprehensive logging of all user actions. Configurable password policies.

Features: Secure REST API, Audit Trails, Compliance Reporting, Data Residency Options.

Technical Architecture & Deployment

A self-contained, high-performance stack bundled for stability.

Interface

Web Server: Apache HTTPD + mod_wsgi
(Reverse Proxy: Port 81)

Logic

Backend:
Python 3.7 / Django

Async Tasks:
Celery Workers
(via iclockservice.exe)

Data

Database:
PostgreSQL
(Port 7496)

Cache:
Redis
(Port 7396)

Deployment Bundle

Self-contained path:
C:\SabreServer\
SabreCloud\

Config:
attsite.ini,
bioCat.exe

Services:
Windows Service
Wrappers

Licensing & Open Integration

Flexible growth options with an API-first approach.

Licensing Tiers

 Free	5 Employees
 Starter	50 Employees, Biometrics
 Professional	Unlimited, Payroll Export, Custom Reports
 Enterprise	White-label, SLA, Custom Integrations

Integration Ecosystem

