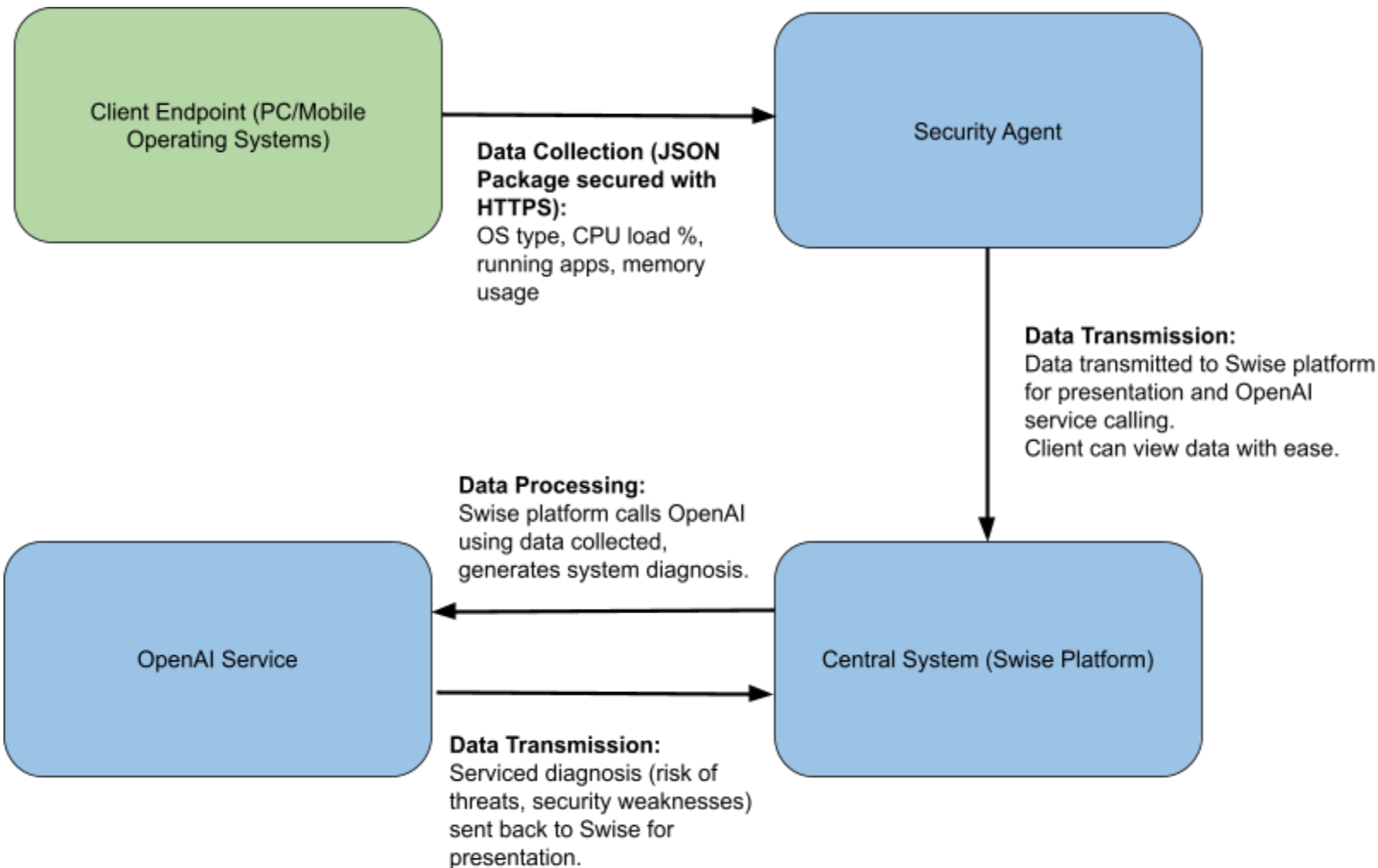


PART ONE

Central Destination Points:

1. Security Agent (Used in client's device)
2. Central AI System ([Swise.ai](https://www.swise.ai) platform)
3. OpenAI (LLM model)



Client Endpoint Agent Core Components:

1. Collection Module
 - a. Collects generic system data
 - i. OS version
 - ii. CPU + Memory usage
 - iii. Running processes (high-level)
 - iv. Installed programs
 - v. Device metadata (non-PII (personally identified information))
2. Communication Module
 - a. Networking component that sends data back to Central AI System
 - i. Securely send telemetry to Central AI System
 - ii. Handle retries and exponential backoff if network fails
 - iii. Use TLS encryption for all communication
 - iv. Attach authentication token or certificate
3. Scheduler
 - a. When the agent collects and transmits data
 - i. Polling Mode (continually runs every few moments)
 - ii. Interrupt/Event-based Mode (runs on a condition: CPU performance influx, memory usage influx)

Low Impact Performance Strategy:

1. Use Event-Based instead of Polling Scheduler
 - a. **Polling** uses significantly more computing power due to continuously running even when nothing of significance is occurring
 - b. **Event-based** only triggers on an important event (interrupt: high CPU usage, memory usage), using less computing power as agent only collects or transmits data during significant intervals
2. Utilise Data Compression
 - a. Reduce size of collected data before transmission
 - b. Critical for mobile end-points due to 4G/5G bandwidth considerations
 - c. Less storage and processing power needed by the Central AI System for transmitted data

Security Best Practices:

1. Agent-to-Central-System Communication
 - a. Enforce Encryption
 - i. All communication between the agent and the central system must use **HTTPS (HyperText Transfer Protocol Secure)**, ensuring protection
 - b. Mutual Authentication
 - i. The server and the agent both verify each other's identity using certificates.
2. Use of the OpenAI API Key
 - a. Key Never Stored on the Agent
 - i. Key only utilised by Central System for safety
3. Data Privacy
 - a. Data Minimisation
 - i. Achieve minimum data collection for what is required
 - b. PII Censoring
 - i. Produce system that automatically prevents sending PII

Future Considerations (Cross-Platform Integration):

*Security Agent should be installed on a device locally in order for data extraction to occur.

Linux (Ubuntu) Integration:

1. Similar to Windows OS, use shell commands to access data

IOS Integration:

1. Utilise 'Mobile Device Management (MDM)' to access to installed apps, last user + timestamp and OS update statuses
2. Cannot use shell commands to access information

