

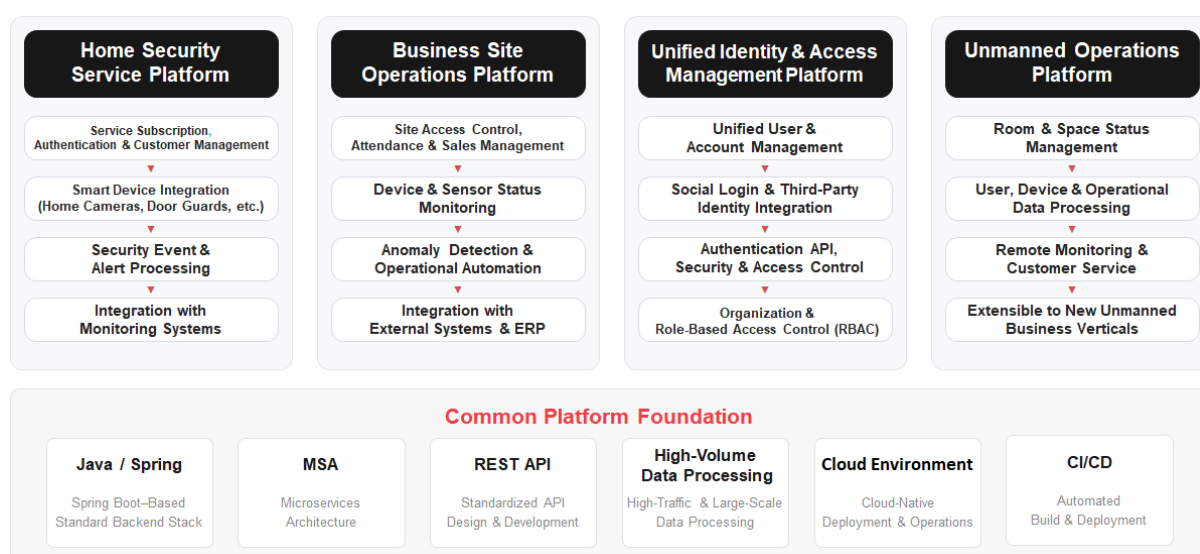
ICT Backend Platform



ICT BACKEND PLATFORM

1. Description

The ICT Backend Platform is a Java/Spring-based backend service platform that supports a wide range of ICT services, including home security, business site operations management, unified identity and access management, and unmanned operations management. Drawing on extensive experience in developing and operating large-scale services in the telecommunications and video security sectors, it reliably provides the backend capabilities required for ICT services—from service subscription and authentication to device integration, event and alert processing, and monitoring system integration. The platform consists of four service platforms: Home Security Services, Business Site Operations Management, Unified Identity and Access Management, and Unmanned Operations Management. All four are developed and operated on a Common Platform Foundation.



[Figure 1] ICT Backend Platform Structure — Four Platforms and the Common Platform Foundation

2. Key Features

● Home Security Service Platform

- Provides service subscription, authentication, and customer management capabilities

- Integrates security devices such as home cameras and door guards, and processes security events and alerts
- Supports security service operations through integration with monitoring systems

● **Business Site Operations Management Platform**

- Provides integrated management of operational data, including access, attendance, and sales
- Monitors device and sensor status, detects anomalies, and automates operations
- Supports integration with external systems and ERP solutions

● **Unified Identity and Access Management Platform**

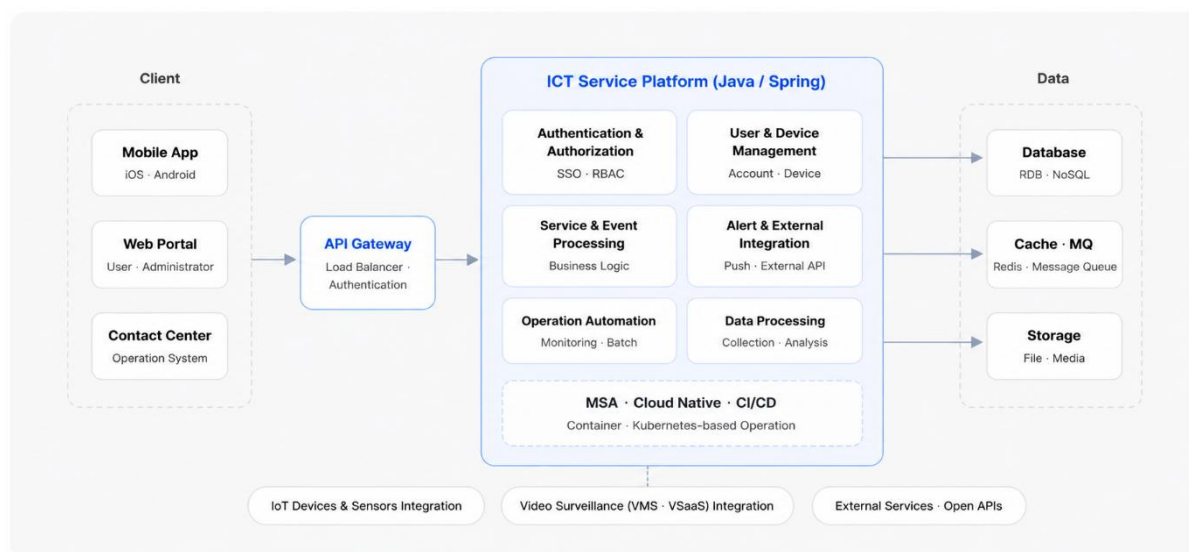
- Provides unified user and account management, along with social login and third-party identity integration
- Provides authentication APIs, security, and access control capabilities
- Supports organization and role-based access control (RBAC) management

● **Unmanned Operations Management Platform**

- Manages room and space status and processes user, device, and operational data
- Provides remote monitoring and customer service capabilities
- Offers a scalable architecture that can be extended to a wide range of unmanned business sectors

● **Common Platform Foundation**

- Standardized Spring Boot backend stack based on Java/Spring
- Standardized MSA and REST API-based design with high-volume traffic and data processing capabilities
- Cloud-based deployment and operations & automated CI/CD build and deployment



[Figure 2] Common Architecture of the ICT Service Backend Platform

3. Benefits

- Accelerates the development and timely launch of new ICT services through a proven common platform
- Ensures flexible scalability as user numbers and traffic increase through an MSA- and cloud-based architecture
- Enhances service reliability through stable processing of high-volume traffic and data
- Maintains a consistent level of security across services through standardized authentication and authorization
- Improves operational efficiency and service quality through automated CI/CD-based build and deployment