



BHZ Devices Management Platform

A Financial-Grade IoT Platform for Efficient and Smart Operations



Secure the Flow. Power the Payment.

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Product Brochure | Version 1.0 | April 2025

Introduction

Amid the wave of digital transformation, efficient management of smart devices has become a cornerstone of enterprise success.

BHZ Devices Management Platform is a financial-grade, all-in-one device management platform specifically designed for IoT terminals. It provides full lifecycle services—from device onboarding, configuration, and monitoring to OTA upgrades and customer/permission management—helping operators manage devices with greater efficiency, security, and intelligence.



Security



Efficiency



Intelligence



The platform has been widely applied in BHZ's Cloud sandbox series, offering clients an integrated solution that enables streamlined operations of intelligent voice payment terminals.

Key Advantages

EFFICIENT Centralized Management



Effortlessly manage thousands of devices with batch onboarding, grouping, and remote control— all from one platform.

TRANSPARENT Real-Time Monitoring



Track device status, operational data, and exception alerts in real time to ensure smooth, uninterrupted service.

EFFORTLESS Remote OTA Maintenance



Remotely upgrade firmware, software, and voice packages Via OTA. Saving Cost and Time.

FLEXIBLE Permission Control



Support for multi-client and multi-role account structures enables flexible, secure, role-based access control.

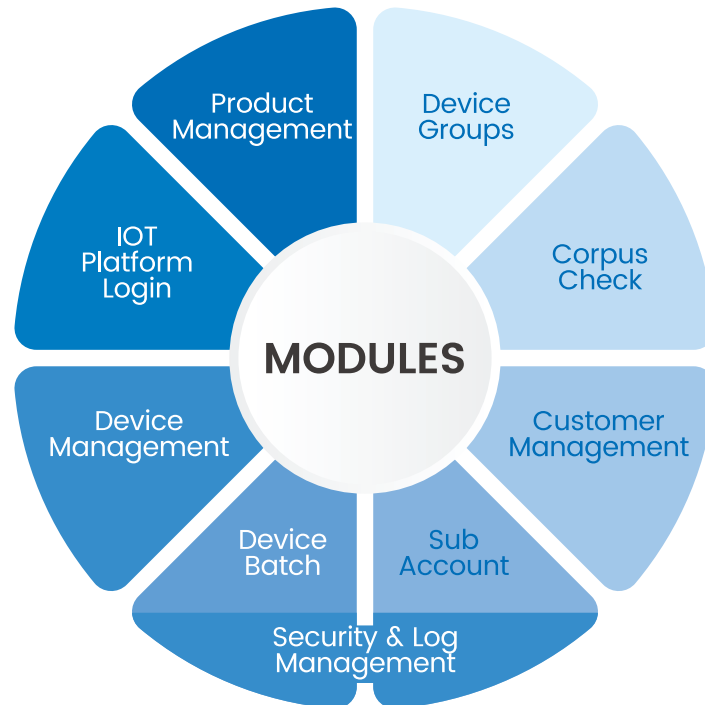
RELIABLE Reliable Security and Audit



Full traceability and compliance with financial grade standards. All operations and logins are logged for audit readiness.

Challenge	BHZ IOT Platform	Traditional Methods
High deployment & maintenance cost	Batch import + fast onboarding	Manual entry, slow & error-prone
Complex client & permission setup	Grouping + filtering + batch operations	Weak grouping, poor control
Dynamic voice content needs accuracy	OTA for both firmware and voice	Firmware only, voice updated manually
Hard to monitor device status	Real-time data & remote debugging	No remote tools, on-site only
Multi-role access needed	Multi-client, multi-app, sub-accounts	Shared accounts, no role isolation
Strict compliance requirements	Full audit logs, searchable & exportable	Incomplete or missing logs

Core Functional Modules



Product & Device Lifecycle Management

Product Modeling:

Define communication protocol, device type, security module, and more to enable structured onboarding.

Batch Onboarding:

Import/export large volumes of device info with version traceability and bulk provisioning.

Device Grouping & Status Query:

Flexible grouping by region, client, or project: enable targeted control and upgrades.

Device Shadow & Debugging:

Remotely access uplink/downlink data, command status, and run real-time diagnostics.

OTA Upgrades & Voice Package Management

Firmware OTA:

Upgrade devices remotely via full/batch/grouped/targeted OTA, with scheduled or immediate execution.

Voice Package OTA:

Independently manage and upgrade voice broadcast content across languages and usage scenarios.

Corpus Verification

Allow corpus template import, single/batch upload, and playback testing on devices—ensuring voice clarity and accuracy.

Customer & Permission Management

Three-Tier Binding (Client-App-Device)

Streamlined client and device linkage with application-level management.

Sub-Account Management:

Assign role-based permissions to operations and maintenance personnel for secure, distributed access.

Security & Auditing

Records all operation logs in real time, with advanced filtering, keyword searchability, and export functionality—fully traceable and audit-ready.

Architecture & Compatibility



Financial-Grade Security Design:

Fully aligned with financial data security standards, including encryption, access control, and logging.



High-Availability Architecture:

Multi-tenant support, elastic scalability, ready for large-scale deployment.



Cross-Browser Compatibility:

Supports Chrome, Microsoft Edge, 360, and other mainstream browsers for seamless user access.