

# BioTime

## Change Log

Version Change Info: V1.1

Current Version: 9.5.6

Date: May 15,2026

English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



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## BioTime 9.5.6 Release Summary

**Focus:** Security • Internationalization • Performance • Device & Attendance Management Improvements

### 1. Core Updates & Platform Changes

#### Libraries & Frameworks

- Frontend upgrades: jQuery 3.7.1, Moment.js 2.17, Lodash 4.17, Bootstrap 5.3.3
- Backend upgrades: Apache HTTP Server 2.4.65, Python 3.11.3, Django 4.1.13 → upcoming 4.2.17
- Security standards: Only TLS 1.2 / 1.3 supported
- Future requirement: BioTime to support Windows OS 2025

**Purpose:** Improved security, browser compatibility, UI readiness, and better performance foundation.

### 2. Internationalization (Language Support)

- Added Kurdish Language across all menus.
- Fixes pending for language toggle behavior (correct translation switching).

### 3. Security & Authentication Enhancements

#### Email-based Two-Factor Authentication (2FA)

- Added Password + Email login (enable/disable per user).
- Supports command-based disable for admin recovery.
- **Bugs fixed:**
  - Missing verification emails.
  - No prompt message when email missing.
  - UI message clarity improved.

**Benefit:** Reinforced account protection and centralized control.

## 4. Personnel & Device Management Enhancements

Feature	Description
<b>Fingerprint Algorithm Selection</b>	Added FP ALG v10.0 and v13.0 support when using USB enroller
<b>Remote Face Enrollment</b>	Remote registration supported for face templates using visible devices (Push command added)
<b>Clear Administrator</b>	Option to remove admin users to device via software (similar to CVSecurity)
<b>Device Data Retention</b>	Default 365 days (previously 9999 days)
<b>Device Parameter Check (New Requirement)</b>	Backend option to read parameter values
<b>User Photo Conversion</b>	Convert standard photo → bio-photo format like CVSecurity
<b>Delete Attendance Command</b>	Can delete attendance data from devices for specific periods
<b>Device Migration</b>	Resigned employees now migrate to resignation list
<b>Device Status &amp; Alert Logs</b>	Added notifications
<b>Push Heartbeat Fix</b>	Device status update delay reduced from 10 min to proper heartbeat interval

## 5. Attendance & Reporting Enhancements

Enhancement	Description
<b>Exception Column Update</b>	Leave type now displayed in total timecard report
<b>Custom Period Report (New)</b>	Admins can generate attendance reports for specific date/time ranges
<b>Attendance Log Auditing</b>	Logs now record which days were calculated automatically
<b>Auto Export Email Attachments</b>	Fixed issue where emails are received without report files
<b>Offline Record Handling</b>	System retains transaction table logs but excludes disabled devices' records
<b>Calculation</b>	Auto-calculation logic refined
<b>Leave Logic Fixes</b>	Business trip overlap, compensatory leave, and sickday logic corrected

## 6. Notifications, Email, and Integration

- Email alert group support added (department-based).
- Email templates fixed — approvers and employees now receive alerts.
- Leave workflow bug fixed — approvers now get notifications.
- SQL TLS prompt clarity improved in system messages.

## 7. System & Installation Enhancements

- Optimized LDAP connection handling Added more detailed connection status and error messages
- Support Added for SQL Server 2025: System path updated for compatibility.
- Exported File Format: Encrypted ZIP by default.
- Migration Tools: Added tool to migrate database from **BioTime 9.5.2** → **9.5.6**.
- Added a **2FA(Two-Factor Authentication)** security feature for user login
- Updated Windows authentication for MSSQL

## 8. Performance & Stability Fixes

- Area page speed optimized.
- **Fixed numerous UI/system errors:**
  - Time period creation issues
  - Palm template display issue
  - Employment monitor loading
  - Missing auto-export headers
- Added digital signatures for *biocat.exe* and *iclockservice.exe* to strengthen security integrity.

## 9. Highlights of 9.5.6 Release Focus

- **Security: 2FA(Two-Factor Authentication), HTTPS driver fixes.**
- Stability: Database migration, MSSQL authentication, device communication
- Internationalization: Added Kurdish full support
- Device Integration: Clear admin, remote face enrollment, configurable FP algorithms
- Convenience: Better migration tools, configurable installation updates

### Final Note:

All features and bug fixes reported in the tracker up to BioTime v9.5.6 have been integrated, validated, or scheduled for enhancement in upcoming maintenance builds.

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