BioStar X

RELEASE NOTES

Version 1.0.3

English

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SECURITY & BIOMETRICS

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Version 1.0.3 (Build No. 1.0.3.171)

Release | 2026-09-22

New Features and Improvements

1. Supported new device
   - XPass Q2: XPQ2-DPB
   - XPass 2 (V2): XP2-GDPB-V2, XP2-GKDPB-V2, XP2-MAPB-V2, XP2-MDPB-V2, XP2-MAPB-H-V2
2. Added real-time status monitoring and direct control of doors and elevators in the **Monitoring** preview
3. Added face authentication features
   - Added support for **Multi Face Authentication** (device license required)
   - Added support for tailgating prevention (**Anti-Tailgating**)
   - Added support for **Duplicate Authentication Prevention**
4. Added **Include On-Site Users Only** mode to **Roll Call**
5. Added **Scan ID** feature to automatically fill in user information using an ID
6. Added **Export/Import Device Configuration** feature
7. Supported EV2 Secure Messaging authentication for DESFire EV2 and EV3 cards.
8. Added the ability to select and batch control multiple devices in **Monitoring**
   - Run Unlock Device, Release Lockout, Stop Action, Reconnect, and Reboot on multiple devices at once
9. Added support for Select All and group selection in the **Monitoring** event filter
10. Added the ability to select and batch control multiple doors, elevators, and advanced access control in **Monitoring**
11. Added a feature to manage users with long-term inactivity
    - View users with long-term inactivity based on Last Access
    - Set a policy to automatically deactivate users based on conditions
    - Send a pre-notification email to designated recipients before auto deactivation
12. Separated firmware builds for **CE** and **Global (Non-CE)** products.

> **CE** and **Global (Non-CE)** products can be identified via the label sticker on the back of the product. The **Master Admin** feature **is enabled only on products with a label bearing the CE mark**.

13. Added **Auth Fail Lockout** feature, which locks the device after repeated PIN authentication failures.
14. Expanded allowed characters for User ID and User Name

- Added support for periods (.) in User ID
- Added support for periods (.) and apostrophes (') in User Name

15. Added the **Audit Trail** feature to T&A
16. Added a filter to the **Monitoring** status tree that shows only items requiring attention
17. Added the ability to configure account permissions at the submenu level
18. Added the **Idle Screen Video Playback** feature
    - Supported models: BioStation 3 Max
19. Supported an option to select QR authentication using the device camera upon **Camera QR** license activation on XS2-QDPB and XS2-QAPB models.
20. Added the ability to display frequently used **Quick Actions** directly in the header
21. Added the **Door Control through Authentication** feature, which unlocks or normalizes a door through user authentication
22. Added the ability to display and unlock locked devices in the **Monitoring** status tree
23. Improved license policy and added bulk activation
    - Feature add-on licenses can now be activated on the **Essential** tier
    - Separated Advanced Access Control into individual licenses
    - Added the ability to activate multiple license keys at once
24. Added the report save feature to **All Events** and **Alert History** in the **Data** menu
25. Improved the Access Control **Audit Trail** feature
    - Expanded logging to capture previously missing actions
    - Recorded before-and-after values when settings or information change
    - Added logging of user information access
26. Improved the **Device** menu tree to remember the expanded/collapsed state per account
27. Added element-specific icons and improved the expand/collapse method in the **Monitoring** status tree
28. Improved **Monitoring** to display the event log across the full screen when there are no maps or cameras to show
29. Improved the **Settings** menu with a group tree structure
30. Improved the VMS certificate installation process
31. Improved the T&A screen UI design
32. Improved the **Monitoring** map status tree to move to the corresponding map when double-clicking a facility
33. Improved the device hardware version to display the same value as the product label (requires supported firmware)
34. Changed **Secure Communication with Device** to be enabled by default
35. Improved group mapping for users belonging to multiple groups in Entra ID.
36. Improved **Send Face Mobile Enrollment Link** to indicate in the **Audit Trail** that the change was made via this feature.

37. Improved the display timing and behavior of the notification popup for an existing BioStar X folder when upgrading from BioStar 2 to BioStar X.
38. Improved the behavior where unnecessary error popups appeared due to response delays during **Sync Device**.
39. Improved the group selection UI when creating custom levels.
40. Security vulnerability improvements
    - Upgraded internal server and client communication channels to TLS 1.3
    - Updated AngularJS and jQuery versions
    - Improved Reverse Tabnabbing vulnerability
    - Enhanced session cookie security
    - Updated the Log4j library version
    - Updated Java Runtime Environment (JRE) version
    - Improved SQL Injection vulnerability
    - Improved a redirect URL security vulnerability during Entra ID login
    - Updated the commons-text library version
    - Updated the OpenSSL library version
    - Updated security vulnerability-related libraries
    - Improved security vulnerabilities in Entra ID integrated login authentication.
41. Improved login to transmit passwords in encrypted form.
42. Enhanced security by requiring the current password when changing your own password.
43. Time & Attendance security vulnerability improvements
    - Improved an SSL certificate-related security vulnerability
    - Updated Node.js and library versions
44. Improved Face user synchronization performance.
45. Improved **Custom Report** query performance when retrieving data over a wide date range.
46. Performance and query improvements in large-scale environments
    - Improved face authentication performance in environments with many users and face data
    - Improved bulk edit speed for 1,000 or more users
    - Fixed query failures when Device, Access Level, or Credential numbers are large
47. Improved event query performance for custom accounts using specific device groups.
48. Improved **Door Status** query performance in Multi Communication Server environments.
49. Improved the query performance of the Status tab in the **Access Group** screen in large-scale environments.
50. Improved the long synchronization time when saving **Door** settings.
51. Improved slow server startup in environments with many registered licenses.
52. Improved slow user retrieval in environments with many **Access Groups**.
53. Improved slow loading of the **Elevator** detail screen in environments with many devices.

54. Improved synchronization in Multi Communication Server environments
    - Improved so that each server processes only its own devices for firmware synchronization
    - Improved **User Group** query performance in environments with many users
55. Improved delays in saving settings when the **Dashboard** has many components.
56. Improved operator permission check performance and **Zone** permission handling
    - Improved operator permission check performance in environments with many targets
    - Improved **Zone** permissions being applied incorrectly in some cases
57. Improved device list tree loading speed in environments with many devices.
58. Improved device synchronization speed in environments with many devices.
59. Improved device synchronization by sending updates only for modified users when Access Group members are changed.
60. Improved overall device synchronization performance and resolved device disconnection issues by sending only device-relevant information during sync.
61. Added removal of unused files during upgrade.

Bug Fixes

1. During video playback, the seekbar timeline and the time information at the knob position do not match. Affects version: 1.0.0
2. Viewing the preview of a disconnected Slave device does not display the device group. Affects version: 1.0.0
3. Exporting to CSV after selecting all users exports them in user creation order instead of User ID order. Affects version: 1.0.0
4. Switching views or exiting full screen while a video is paused causes the video to switch to playing. Affects version: 1.0.0
5. When sorting (Order By) columns in the User List in an encrypted environment with User IDs that differ only by case, the sort order is applied incorrectly. Affects version: 1.0.0
6. When printing the User List after selecting all columns including **Custom User Fields**, Credential-related columns appear blank. Affects version: 1.0.0
7. Viewing the preview of real-time event logs containing user information that does not exist on the server displays an empty User field. Affects version: 1.0.0
8. When importing a CSV file with Mobile Access Card information, the card is issued only in the Airfob Portal even if user creation fails. Affects version: 1.0.0
9. When importing a CSV file with Mobile Access Card information, a card is issued in the Airfob Portal and an error occurs if User ID is not selected on the column mapping screen. Affects version: 1.0.0

10. Importing a CSV file without Mobile Access Card information deletes the card from BioStar 2 while retaining it in the Airfob Portal. Affects version: 1.0.0
11. The enlarge image button label in the **Monitoring** event preview area was displayed in English even when the language was set to Korean. Affects version: 1.0.0
12. Unrelated settings were disabled or an info icon was incorrectly displayed when setting **Suprema Smart Card Layout** or **Custom Smart Card Layout** to **None** in Device Detail page. Affects version: 1.0.0
13. Loading not completing when an administrator without device permissions accesses the **Occupancy Limit** zone **Preview** in **Monitoring**. Affects version: 1.0.0
14. Column not printed when a **Custom User Field** is added and included in the **Column Layout** before printing. Affects version: 1.0.0
15. Options in **CSV Import** hidden and unable to proceed when the browser zoom level is increased. Affects version: 1.0.0
16. Error popup occurring when reissuing a **Mobile Access Card** after deleting it on the user detail page. Affects version: 1.0.0
17. Incorrect screen displayed after completing registration in environments with many users in **T&A**. Affects version: 1.0.0
18. Error popup occurring intermittently when accessing the device detail page. Affects version: 1.0.0
19. Synchronization errors occurring on multiple devices when deleting a device after deleting a door in a Multi Communication Server environment. Affects version: 1.0.0
20. Checkboxes not working correctly when selecting/deselecting master sub-devices in **Set Filters** of the **Dashboard**. Affects version: 1.0.2
21. Image files saved without detailed information in the filename when downloading images in **Custom Report**. Affects version: 1.0.2
22. Lines misaligned when a **User Group** name is long in the tree of the **Users Information** screen. Affects version: 1.0.2
23. Dump files generated after PC boot in an MSSQL environment. Affects version: 1.0.0
24. No action or error message occurring when viewing the **Image Log** of a disconnected device in **All Events**. Affects version: 1.0.2
25. Errors occurring when importing a device's **Event Log** that exceeds the maximum storage capacity. Affects version: 1.0.0
26. Inactive users incorrectly shown as active when searching users via the API. Affects version: 1.0.0
27. Logs from certain devices not appearing in the **Event Log** and **Real-time Log** in an MSSQL environment. Affects version: 1.0.0
28. App crashing when fingerprint scanning fails with BioMini Slim2 in USB Agent. Affects version: 1.0.0
29. **Wiegand Card** IDs not displayed correctly when generating card-related reports in **Report**. Affects version: 1.0.0

30. **Time Zone** fixed to UTC+9 instead of the local server time on the first installation of BioStar X. Affects version: 1.0.0
31. Titles not displayed on some screens when using a monitor in portrait mode. Affects version: 1.0.0
32. Null displayed in the name field when a user without a name is selected as a search condition and the screen is refreshed in T&A **Report**. Affects version: 1.0.0
33. Errors occurring when accessing the Settings menu after upgrading BioStar 2 installed in a Korean-named folder path to BioStar X. Affects version: 1.0.0
34. Errors occurring and the service shutting down when applying settings to certain devices. Affects version: 1.0.1
35. **Schedules** failing to be created and the loading state persisting in **T&A**. Affects version: 1.0.0
36. Backup failing when using a custom port in an MSSQL (Windows Authentication) environment. Affects version: 1.0.0
37. Plugin icons not appearing in the Launcher after backup and restore. Affects version: 1.0.0
38. Some files remaining undeleted after uninstalling the T&A package. Affects version: 1.0.0
39. Users not synchronizing correctly to Time & Attendance when adding a large number of users and User Groups via **CSV Import** in a Windows Authentication environment. Affects version: 1.0.0
40. Duplicate leave entries created when registering **Leave** for multiple users in **T&A**. Affects version: 1.0.0
41. Time adjustment buttons not being disabled when adding a non-worked leave in a T&A **Schedule**. Affects version: 1.0.0
42. Errors occurring when disabling Optimized Punchlog in **T&A** in MSSQL environments. Affects version: 1.0.0
43. Unnecessary characters displayed in the popup message when creating a schedule in **T&A**. Affects version: 1.0.0
44. Error logged when creating a holiday in **T&A** menu with the same name as a holiday created in **Schedule** setting menu. Affects version: 1.0.0
45. Some attendance records missing when using multiple devices in **T&A** in an MSSQL environment. Affects version: 1.0.0
46. **Holidays** not applied to schedules and processed as absences when there are more than 100 holidays in **T&A**. Affects version: 1.0.0
47. Memory usage increasing abnormally when using **T&A** for extended periods. Affects version: 1.0.0
48. Warning popup appearing when the refresh button is clicked repeatedly in the Time & Attendance calendar view. Affects version: 1.0.0
49. Some communication servers failing to connect after a reboot. Affects version: 1.0.0
50. Mobile cards incorrectly added to the **Deleted CSN Mobile Card** list when deleting them via CSV import in a **Dynamic** site environment. Affects version: 1.0.0
51. Browser freezing when importing a large number of user groups from Active Directory/Entra ID. Affects version: 1.0.0

52. Some event names not displayed correctly after upgrade. Affects version: 1.0.0
53. Incorrect data displayed in **Custom Report** when changing rows per page after navigating pages. Affects version: 1.0.2
54. Intermittent errors occurring during restore in an MSSQL (Windows Authentication) environment. Affects version: 1.0.2
55. Active Directory/Entra ID integration failing in language environments with different numeral representations, such as Arabic. Affects version: 1.0.0
56. Users who have exited still shown as inside in the **Muster Report**. Affects version: 1.0.0
57. Time and Attendance synchronization not proceeding after an error occurs during synchronization. Affects version: 1.0.0
58. Remote Access failing to start or save properly. Affects version: 1.0.2
59. Old IP information remained and caused improper operation when restoring with a changed server IP Affects version: 1.0.2
60. Synchronization failing when an Entra ID group name contains special characters such as commas (,) or equal signs (=). Affects version: 1.0.0
61. Errors occurring due to invalid dates when modifying access groups via the API. Affects version: 1.0.0
62. User ID not displayed in Face synchronization failure events. Affects version: 1.0.0
63. The same firmware appeared twice when upgrading firmware with both XPass 2 (V2) and XPass 2 Keypad (V2) selected in the **Device** list Affects version: 1.0.0
64. The **Apply** button did not work when saving RS485 settings on the device detail screen Affects version: 1.0.0
65. The server did not restart automatically after an abnormal shutdown Affects version: 1.0.0
66. Features supported by the new firmware were not displayed on the screen after a firmware upgrade Affects version: 1.0.1
67. The report title was not displayed when printing or exporting to PDF if the **Roll Call** report title was in Thai Affects version: 1.0.0
68. The server shut down abnormally and interrupted service for all users when a logged-in user was deleted Affects version: 1.0.0
69. The event was not displayed in the event log when controlling a door in **Monitoring** without ever opening the preview Affects version: 1.0.0
70. No system backup file was created in **Time & Attendance** environments upgraded from BioStar 2 Affects version: 1.0.0
71. Deleting all Output Signals in the Alert settings failed to process Affects version: 1.0.0

72. **Anti-Passback** list retrieval was delayed when entering the **Advanced Access Control** screen after creating a **Muster** zone, making the menu inaccessible Affects version: 1.0.0

73. Bookmarks and notifications were not recorded in the VMS when the web port was set to a non-default port during installation Affects version: 1.0.0

74. After a user group operation failed once, subsequent user changes were not applied to devices until the server was restarted Affects version: 1.0.0

75. Images could not be added when setting the BioStation 3 Max home screen logo to a slide show Affects version: 1.0.2

76. Users belonging to both **Access Group** disappeared from devices after reconnection when the **Access Level** of the two groups were swapped while the devices were disconnected Affects version: 1.0.0

77. Events from a deleted device remained and delayed event logging for other devices, and the server log grew rapidly if the deleted device stayed connected Affects version: 1.0.2

78. Real-time event, alarm, and task completion notifications were not displayed on the screen when their delivery failed Affects version: 1.0.0

79. IP information was not displayed in the User column when viewing login failure lockout events in **Custom Report** Affects version: 1.0.0

80. The scroll bar in the **User** tree and the **Settings** screen could not be moved with the mouse Affects version: 1.0.0

81. Some users were not delivered to devices during full device synchronization, yet the synchronization was marked as complete, and they were still not delivered even after resynchronizing Affects version: 1.0.0

82. Changing the personal data encryption settings logged the user out Affects version: 1.0.0

83. The authenticated user name was not displayed in the **Occupancy Limit** alert Affects version: 1.0.0

84. On the **Custom Report** screen, the User Name column also displayed the user ID, duplicating the User ID column Affects version: 1.0.0

85. User synchronization on BioStation 3 Max was slow in specific device synchronization mode environments Affects version: 1.0.2

86. Re-entering the Door Status tab after applying a manual Lock/Unlock (Timed, Permanent) to a door relay does not display the status change tooltip when clicking the Door Relay icon. Affects version: 1.0.0

87. Re-entering the Door Status tab after applying a manual Lock/Unlock (Permanent) to a floor relay does not display the status change tooltip when clicking the Floor Relay icon. Affects version: 1.0.0

Version 1.0.2 (Build No. 1.0.2.179)

Release | 2026-06-18

New Features and Improvements

1. Supports new device.
    - BioStation 3 MAX
    - XPass Q2
2. Support for deleting device event logs in BioStar X.
3. Added support for changing the main server IP address.
4. Added support for two user synchronization mode options when integrating with a directory service.
    - **Add/Update Only** (Default)
    - **Add/Update/Delete**
5. Improved Backup and Restore
    - Improved to support restoration even when the server IP address has changed.
    - Improved backups to include data from user-defined paths, such as encryption keys and image logs.
    - Improved the stability of the backup and restore process.
6. Improved to allow administrators to be assigned camera group-based access permissions, restricting access to cameras within designated groups only.
7. Improved system security vulnerabilities
    - Application of HTTP security headers for the web server
    - Enhancement of the encryption method for database connection passwords
    - Improved XSS security vulnerabilities
    - Improved SQL Injection security vulnerabilities
    - Improved security vulnerabilities related to access permissions on the user list page
    - Improved security vulnerabilities related to device secure communication and encryption keys
    - Improved security vulnerabilities related to PDF export
8. Security improvements for Time & Attendance
    - Updated the Minimist library to address security vulnerabilities
    - Improved security vulnerabilities in script files

- Enhanced the database password encryption method
- Upgraded web libraries (AngularJS, jQuery, and Moment.js)

9. Updated Open JDK version.
10. Supported **Nx Witness v6** for VMS integration.
11. Added a popup message recommending the deletion of unnecessary Redis for when upgrading to BioStar X.

Bug Fixes

1. Fixed bugs and optimized services to improve overall system stability. Affects version: 1.0.1
2. BioStar X inaccessible after installation in environments with multiple network adapters. Affects version: 1.0.0
3. Unable to upgrade BioStar 2 installed in a custom path to BioStar X. Affects version: 1.0.0
4. Long-term non-access users remaining on the list even after successful authentication with specific credentials (e.g., Mobile Card). Affects version: 1.0.0
5. **Daylight Saving Time** (DST) not being applied when exporting the **Muster Status** to CSV or PDF. Affects version: 1.0.0
6. The context menu not appearing when right-clicking on certain devices in environments with multiple registered devices. Affects version: 1.0.0
7. Error occurring when importing event log files exported via USB from BioStation 2a. Affects version: 1.0.0
8. User registration failure during Active Directory synchronization when the `sAMAccountName` contains non-standard characters. Affects version: 1.0.0
9. Improved the Active Directory synchronization logic to support both uppercase and lowercase keys (e.g., ou, dc) in the Base Domain Name. Affects version: 1.0.0
10. Failure to retrieve group lists or synchronize data from Microsoft Entra ID when the number of user groups exceeds 100. Affects version: 1.0.0
11. Incorrect display when entering combining characters in certain fields. Affects version: 1.0.0
12. Unintended deletion of door groups with similar names when deleting a group that includes an underscore (`_`). Affects version: 1.0.0
13. Improved the USB Device Agent installer by including the latest DE-620 drivers to ensure compatibility with Windows 11 security updates. Affects version: 1.0.0
14. Fixed an issue where database migration failed when enabling or disabling the Encrypt Personal Data On DataBase option. Affects version: 1.0.0
15. Fixed an issue where non-admin users could access other users' report filters via the API. Affects version: 1.0.0

16. BioStar 2 upgrade to BioStar X resulting in new user registration failure and device sync errors. Affects version: 1.0.2

17. Server errors occurring after restoring a backup file on a server with a different IP address. Affects version: 1.0.2

18. The **T&A** menu is failing to launch properly after changing the IP address in a MariaDB environment. Affects version: 1.0.2

19. An error occurring when searching for devices after a fresh installation of BioStar X. Affects version: 1.0.0

Version 1.0.1 (Build No. 1.0.1.355)

Release | 2025-12-29

New Features and Improvements

1. Added the menu in the top navigation bar to change the signed-in account's Preference settings and password.
2. Improved to allow entering a reason when printing or exporting in certain menus, and to view the entered reason in the **Audit Trail**.
    - **User**: **Print / CSV Export / Data File Export**
    - **Data**: **Print / CSV Export**
3. Improved to allow viewing the history in the **Audit Trail** upon login failure.
4. Improved to allow the BioStar X **Attendance Management (T&A) license** to be activated on all base licenses (Device Manager or higher).
5. Improved to support the BioStar X **Capacity upgrade** starting from the **Essential** license.
6. Rename the **Face** credential
    - **Face → IR Face**

Bug Fixes

1. Fixed bugs and optimized services to improve overall system stability. Affects version: 1.0.0
2. Improved the startup performance of the **BioStar X Core Web Service** and clarified the popup message that appears when attempting to sign in while the service is stopped or still starting. Affects version: 1.0.0
3. Fixed a server crash that occurred when running **Roll Call** after the same user's authentication events were generated at the same timestamp (DEVDT) on different devices. Affects version: 1.0.0

Version 1.0.0 (Build No. 1.0.0.294)

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