BioStation 2a

RELEASE NOTES

Version 1.2.4

English
EN 301.00.BS2A

suprema
SECURITY & BIOMETRICS

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Firmware Version 1.2.4 (Build No. 1.2.4_260810)

Release | 2026-08-25

> **Caution**
>
> - After upgrading the firmware to v1.2.0, it is not able to downgrade to an earlier version of the firmware.
> - For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports the **Display Result from Controller** feature for displaying authentication success or failure results from a 3rd party controller on the device screen when using **Intelligent Slave**.
2. Changed the authentication success LED color to green.
3. Improved BLE stability.

Bug Fixes

1. Devices that do not support the buzzer failing to connect when integrated with an OSDP panel. Affects version: 1.0.0
2. DESFire EV2 cards failing to write when issuing a Secure Credential Card. Affects version: 1.2.1
3. Suprema Mobile Access authentication failing on certain Android devices. Affects version: 1.2.1
4. An incorrect authentication failure reason is displayed when authenticating with an EV1 card on a slave device with Secure Messaging enabled. Affects version: 1.2.1
5. CSN value being output for EV1 cards on a slave device connected to a third-party controller via OSDP when the Secure Messaging enforcement option is enabled. Affects version: 1.2.1
6. Exception codes not being output when tagging an EV1 card on a device connected via OSDP with the Secure Messaging enforcement option enabled. Affects version: 1.2.1
7. Card authentication not working on slave devices when the master device is downgraded to a version that does not support Secure Messaging. Affects version: 1.2.1
8. CSN value being transmitted to the Wiegand in device for EV1 cards when the Secure Messaging enforcement option is enabled on a bypass-configured Wiegand device. Affects version: 1.2.1

Firmware Version 1.2.3 (Build No. 1.2.3_260805)

Release | 2026-08-07

Caution

- After upgrading the firmware to v1.2.0, it is not able to downgrade to an earlier version of the firmware.
- For more information, check the serial number of the device and contact the Suprema.

Firmware Repackaging

Firmware Version 1.2.2 (Build No. 1.2.2_260511)

Release | 2026-05-13

Caution

- After upgrading the firmware to v1.2.0, it is not able to downgrade to an earlier version of the firmware.
- For more information, check the serial number of the device and contact the Suprema.

Firmware Repackaging

Firmware Version 1.2.1 (Build No. 1.2.1_260416)

Release | 2026-04-17

Caution

- After upgrading the firmware to v1.2.0, it is not able to downgrade to an earlier version of the firmware.
- For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports the **Display Result from Controller** feature for displaying authentication success or failure results from a 3rd party controller on the device screen when using **Intelligent Slave**.
2. Improved the device to ignore undefined LED control commands received from a controller.
3. Supports the **Auth Result Display Option** that allows you to select how the user ID and name are displayed on the authentication result screen of the device.
    - **User ID Display**
    - **User Name Display**
4. Supported EV2 Secure Messaging authentication and issuance for DESFire EV2 and EV3 cards.
5. Supports the **Ignore Repeated Signals Duration** feature, which ignores repetitive authentication signals from the controller when the device is connected to a 3rd party controller via Wiegand.
6. Supports not logging events when the **Ignore Repeated Signals Duration** feature is activated.
7. Improved log display for unsupported events and errors on the device.
8. 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**.

Firmware Version 1.2.0 (Build No. 1.2.0_251014)

Release | 2025-10-21

> **Caution**
>
> - After upgrading the firmware to v1.2.0, it is not able to downgrade to an earlier version of the firmware.
> - For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports the **Master Admin** setting, which grants full administrator privileges.
2. Reflects global cybersecurity standards and the latest security requirements.
3. Added identification code to support recognition of the latest cards.
   - DESFire EV3
4. Improved time synchronization behavior between server and devices.
5. Improved keypad UI when entering username or ID.

Bug Fixes

1. When using **Device** → **Server** mode, the server IP address is reset if the connection to the DHCP server fails. Affects version: 1.0.0
2. When a user with more than two cards enrolled attempts card authentication to the Wiegand output device, the ID of a card other than the authenticated card is output. Affects version: 1.0.0
3. Arm/Disarm actions did not operate correctly on specific Supervised Input port of the DM-20 connected as a slave. Affects version: 1.0.0
4. Each time the **Device Info** menu is opened, the **WiFi MAC** address is displayed differently. Affects version: 1.1.0
5. Wiegand format card data of 25 bits or less is not recognized. Affects version: 1.0.0
6. When multiple devices are connected to a third-party control panel, rebooting one device causes the RS-485 connections of the other devices to be disconnected. Affects version: 1.1.0
7. After a firmware upgrade, authentication failure occurs with the previously used cards. Affects version: 1.1.0

Firmware Version 1.1.1 (Build No. 1.1.1_240319)

Release | 2024-03-20

New Features and Improvements

1. Improved pop-up message displayed when searching with unenrolled information in the **Search User** feature.
2. Improved pop-up message displayed when **Timed Anti PassBack** occurs.
3. Improved duplicate fingerprint detection.
4. Improved fingerprint capture quality.

Bug Fixes

1. **Duress** fingerprint cannot be deleted when the user has two or fewer fingerprints, including **Duress** fingerprint stored in it. Affects version: 1.0.0
2. When there is no firmware file on the USB connected to the device, pressing the arrow keys/OK button continuously in the **File List** of **FW Upgrade** causes the device to restart. Affects version: 1.0.0
3. When network is repeatedly disconnected in an environment using a wireless network, RF card authentication will fail. Affects version: 1.0.0
4. The user ID stored as a 32-character string is truncated to only 31 characters in a specific event log. Affects version: 1.0.0
5. If the authentication message containing the user ID and Name exceeds a certain number of characters, the device will terminate abnormally. Affects version: 1.0.0
6. If the number of fingerprints stored in the device exceeds the 1:N maximum, the **Finger** in **User Usage** count is displayed abnormally. Affects version: 1.0.0
7. When using the BS2_GetDeviceCapabilities function in the SDK to get information supported by the device, the CustomClassicPlus and CustomDesFireEV1 are displayed as False though the device supports custom smart cards. Affects version: 1.1.0
8. When **Relay** is set in the device menu, the door does not open when authenticating with a mobile card + fingerprint. Affects version: 1.0.0

Firmware Version 1.1.0 (Build No. 1.1.0_240104)

Release | 2024-01-04

New Features and Improvements

1. Supports **Custom Smart Card Layout**.
2. Applied Open SSL 3.0.10.
    - After upgrading the firmware to v1.1.0, it is not able to downgrade to an earlier version of the firmware.
3. Extended the user expiration period to a maximum of '**2037-12-31**'.
4. Improved pop-up message to be displayed when **Timed Anti PassBack** occurs.
5. Improved **Key Menu** screen UI.
6. Improved fingerprint algorithm.

Bug Fixes

1. When **Relay** is set in the device menu, the door does not open with a mobile card. Affects version: 1.0.0
2. The device abnormally restarts when changing the device's Network settings in BioStar 2. Affects version: 1.0.0
3. Cannot connect to a wireless network by manually entering the SSID in **Wireless LAN**. Affects version: 1.0.0
4. Authentication fails when authenticating with a DESFire AoC while the device is connected as a slave. Affects version: 1.0.0
5. When authenticating with ID + PIN on a device connected as a slave, the user ID is displayed but the user name is not displayed. Affects version: 1.0.0
6. The device restarts when formatting and reissuing the user's iClass AoC in BioStar 2. Affects version: 1.0.0
7. When pressing the OK button consecutively and then pressing the directional key, a beep sound plays, resulting in an authentication failure. Affects version: 1.0.0

Firmware Version 1.0.0 (Build No. 1.0.0_230830)

Release | 2023-09-14

Initial Firmware Developed.

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