XPass 2

RELEASE NOTES

Version 1.5.3

English
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suprema
SECURITY & BIOMETRICS

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Firmware Version 1.5.3 (Build No. 1.5.3_260818)

Release | 2026-08-19

Caution

- Devices with firmware v1.5.1 or later cannot be downgraded to versions earlier than v1.5.1.
- The XP2-MAPB-H model cannot be downgraded to versions earlier than v1.4.3.
- XP2-GKDPB models with hardware v1.2.0 or later cannot be downgraded to versions earlier than v1.4.3. You can check the hardware version in the **Device** menu in BioStar 2.
- Devices with the new BLE chip cannot be downgraded to versions earlier than v1.3.1. This restriction does not apply to devices with the existing BLE chip.

To check whether your device can be downgraded and whether the new BLE chip is installed, verify the serial number and contact Suprema.

New Features and Improvements

1. Added support for unlocking or normalizing a door through user authentication.
2. Supports the **Extended Door Open Time** feature, which allows certain users to have the door remain open longer than the default door open time.
3. Improved door control status to accurately display control results and change details in monitoring.
4. Supports real-time monitoring of the device's multiple statuses in BioStar X.
5. Improved Fire alarm zone status display and alarm clearing behavior after power restart following a fire alarm.
6. Improved BLE stability.
7. Improved so that when authentication is attempted on a door set to **Manual Lock**, an authentication failure event occurs and a locked message appears.

Bug Fixes

1. Card authentication failure on connected Wiegand readers. Affects version: 1.0.0
2. The master device disconnecting or alarms failing to clear when performing **Clear Alarm** on alarms triggered by **Trigger & Action** settings on master or slave devices. Affects version: 1.5.2
3. Suprema Mobile Access authentication failing on certain Android devices. Affects version: 1.3.2
4. DESFire EV2 cards failing to write when issuing a Secure Credential Card. Affects version: 1.5.2

5. Failure sound and failure LED occurring on successful authentication with a Lock Override card. Affects version: 1.5.2
6. Card authentication not working on slave devices when the master device is downgraded to a version that does not support Secure Messaging. Affects version: 1.5.2

Firmware Version 1.5.2 (Build No. 1.5.2_260407)

Release | 2026-04-10

Caution

- Devices with firmware v1.5.1 or later cannot be downgraded to versions earlier than v1.5.1.
- The XP2-MAPB-H model cannot be downgraded to versions earlier than v1.4.3.
- XP2-GKDPB models with hardware v1.2.0 or later cannot be downgraded to versions earlier than v1.4.3. You can check the hardware version in the **Device** menu in BioStar 2.
- Devices with the new BLE chip cannot be downgraded to versions earlier than v1.3.1. This restriction does not apply to devices with the existing BLE chip.

To check whether your device can be downgraded and whether the new BLE chip is installed, verify the serial number and contact Suprema.

New Features and Improvements

1. Supported EV2 Secure Messaging authentication and issuance for DESFire EV2 and EV3 cards.
2. Supports the **Lock Override** feature, which allows you to enroll a card that can open a door to be opened using a specific card.

Bug Fixes

1. Access group authentication behaves abnormally according to the schedule (Daily) when DST is applied. Affects version: 1.0.0
2. Card format and write failure after changing the **Primary Key** of an issued MIFARE SL1 card. Affects version: 1.5.1
3. Network speed downgrading after changing the IP settings of a device. Affects version: 1.0.0

Firmware Version 1.5.1 (Build No. 1.5.1_260105)

Release | 2026-01-16

Caution

- Devices with firmware v1.5.1 or later cannot be downgraded to versions earlier than v1.5.1.
- The XP2-MAPB-H model cannot be downgraded to versions earlier than v1.4.3.
- XP2-GKDPB models with hardware v1.2.0 or later cannot be downgraded to versions earlier than v1.4.3. You can check the hardware version in the **Device** menu in BioStar 2.
- Devices with the new BLE chip cannot be downgraded to versions earlier than v1.3.1. This restriction does not apply to devices with the existing BLE chip.

To check whether your device can be downgraded and whether the new BLE chip is installed, verify the serial number and contact Suprema.

New Features and Improvements

1. Improved to distinguish devices that support the **Secure Tamper** feature.
2. Added a distinction code to support 7-byte CSN cards.

Firmware Version 1.5.0 (Build No. 1.5.0_250811)

Release | 2025-08-14

Caution

- Devices with firmware v1.5.0 or later cannot be downgraded to versions earlier than v1.5.0.
- The XP2-MAPB-H model cannot be downgraded to versions earlier than v1.4.3.
- XP2-GKDPB models with hardware v1.2.0 or later cannot be downgraded to versions earlier than v1.4.3. You can check the hardware version in the **Device** menu in BioStar 2.
- Devices with the new BLE chip cannot be downgraded to versions earlier than v1.3.1. This restriction does not apply to devices with the existing BLE chip.

To check whether your device can be downgraded and whether the new BLE chip is installed, verify the serial number and contact Suprema.

New Features and Improvements

1. Reflects global cybersecurity standards and the latest security requirements.

Firmware Version 1.4.3 (Build No. 1.4.3_250602)

Release | 2025-06-04

Caution

- The XP2-MAPB-H model cannot be downgraded to versions earlier than v1.4.3.
- XP2-GKDPB models with hardware v1.2.0 or later cannot be downgraded to versions earlier than v1.4.3. You can check the hardware version in the **Device** menu in BioStar 2.
- Devices with the new BLE chip cannot be downgraded to versions earlier than v1.3.1. This restriction does not apply to devices with the existing BLE chip.

To check whether your device can be downgraded and whether the new BLE chip is installed, verify the serial number and contact Suprema.

New Features and Improvements

1. Added new model.
   - XP2-MAPB-H
2. Supports **Keypad Backlight** configuration.
   - XPass 2 (XP2-GKDPB) hardware v1.2.0 or higher, firmware v1.4.3 or higher.
3. Added identification code to support recognition of the latest cards.
   - DESFire EV3
4. Supports SL1, SL3, and SL1/SL3 Mix Mode for security level compatibility with MIFARE Plus EV1 cards.
   - SL1: Compatible mode with MIFARE Classic
   - SL3: Advanced security mode based on AES
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.

Bug Fixes

1. 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: 1.4.1
2. 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: 1.4.1

3. When authentication is successful using the **Secondary Key**, and the **Secondary Key** is then set to **Not Use**, authentication fails even if the **Primary Key** is valid. Affects version: 1.0.0

4. Authentication fails with a 'period expired' message when using a smart card issued with a visual face included. Affects version: 1.0.0

Firmware Version 1.4.2 (Build No. 1.4.2_241025)

Release | 2024-10-28

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.3.1 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports for device firmware upgrade via the Device Manager application.
2. Added feature to set the baud rate of slave devices.
3. Improved to get user update succeeded event log using the GetLogWithFilter function in the SDK.
4. Improved RS-485 communication quality.

Bug Fixes

1. When the device log is full and a new event occurs, unintended logs are retrieved with the newly generated event. Affects version: 1.3.1
2. When running the Device Manager application v1.1.8 on certain iOS, the device does not connect. Affects version: 1.0.0
3. When the **Input card ID from keypad** option is enabled, there is an issue where the card ID value recorded in the event log differs from the entered value when an unassigned card ID is input using the keypad. Affects version: 1.0.0
4. When a user with a 32-character user ID authenticates to the device while the device is not connected to the server, the authentication event log is not updated in BioStar 2 even after the device is reconnected to the server. Affects version: 1.0.0
5. 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
6. After a firmware upgrade, authentication failure occurs with the previously used cards. Affects version: 1.4.1
7. When the **Time Synchronization with Server** option is disabled and the device time is changed, the device restarts abnormally. Affects version: 1.4.1
8. When the **RS-485** mode is set to **Slave**, the **Custom Smart Card Layout** and **Byte Order** of the device are not saved as

set. Affects version: 1.4.1

9. When the device is restarted with the **Primary Key** set only in the **Suprema Smart Card Layout** and the **Secondary Key** set only in the **Custom Smart Card Layout**, the device recognizes the Custom Smart Card as a CSN card. Affects version: 1.4.1
10. Some smart cards fail to be recognized in environments using the new SE chip firmware. Affects version: 1.4.1
11. DESFire smart cards with the **Custom Smart Card Layout** set to **Secondary Key** are recognized as CSN cards. Affects version: 1.4.1
12. Custom smart cards with the **DESFire Advanced** option enabled fail to be recognized. Affects version: 1.4.1

Firmware Version 1.4.1 (Build No. 1.4.1_240319)

Release | 2024-07-25

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.3.1 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Added new model.
   - XP2-MAPB
2. Improved to select and update only the desired information when updating user information. (Compatible with BioStar v2.9.0 or higher)
3. Supports **Custom Smart Card Layout**.
4. Supports a XPass D2 new BLE (Bluetooth Low Energy) chip firmware.
   - The BLE chip parts of the hardware have been changed, and the firmware has been upgraded to be compatible with both the existing and new BLE chips.
5. Improved synchronization to complete if user enrollment fails when synchronizing multiple users to the device in BioStar 2.
6. Improved smartcard output byte order setting.
   - When using Wiegand or OSDP output, it is improved to be affected by the smartcard output byte order when the Wiegand output information is set to send user ID.
7. Improved when authenticating with a BLE mobile card running on iOS, authentication fails and the device restarts intermittently.

Bug Fixes

1. Device does not recognize some MIFARE Classic cards. Affects version: 1.0.0
2. When running the Device Manager application v1.1.8 on iOS, certain devices do not connect. Affects version: 1.3.1
3. Device abnormally restarts when changing the device's Network settings in BioStar 2. 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. Improved the structure to fix cache management errors caused by database storage, modification, or deletion errors.
Affects version: 1.0.0

Firmware Version 1.3.2 (Build No. 1.3.2_230116)

Release | 2023-01-26

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.3.1 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Separated the log related to the cause of the door unlock.
   - Door open request by exit button
   - Door open request by operator
2. Added relay deactivation option for exit button input.
   - Added the option to set the door open request log to occur but the relay not to operate when the exit button is pressed.

Bug Fixes

1. Card types not checked to be used in smart card settings gets issued normally. Affects version: 1.0.0
2. Event logs and real-time logs are not output due to corrupted log records. Affects version: 1.0.0
3. Deleting all users included in an access group in BioStar 2 does not delete the access group from the device's user information. Affects version: 1.0.0
4. Improved the structure to prevent authentication fail caused by broken database or cache memory. Affects version: 1.0.0

Firmware Version 1.3.1 (Build No. 1.3.1_220607)

Release | 2022-06-13

> **Caution**
> Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.3.1 or higher. Devices with existing BLE chips can be downgraded to a lower version.
>
> For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports setting the byte order for smart cards.
   - Supports setting the byte order of data to be output to Wiegand or OSDP.
2. Supports a new BLE (Bluetooth Low Energy) chip.
   - The BLE chip parts of the hardware have been changed, and the firmware has been upgraded to be compatible with both the existing and new BLE chips.
3. Improved the Arm/Disarm status is maintained if the device loses power.

Bug Fixes

1. The card ID was always output as MSB through OSDP when the card ID is input while the device was connected by an intelligent slave. Affects version: 1.2.3
2. The user ID was abnormally displayed in the event log if the user authenticated with AoC set as the blacklist card when the User ID Type was set to Alphanumeric. Affects version: 1.0.0
3. When the device is connected as an intelligent slave and the first card registered to the user is a Wiegand card of a format other than 26-bit, the CSN value is output through OSDP when authenticated with the user's fingerprint. Affects version: 1.2.3
4. Mobile card authentication suddenly does not work. Affects version: 1.1.0

Firmware Version 1.2.4 (Build No. 1.2.4_211112)

Release | 2021-11-17

Caution

Devices with the new BLE chip cannot downgrade to a lower version after upgrading the firmware to v1.2.4. Devices with existing BLE chips can be downgraded to a lower version.

For more information, check the serial number of the device and contact the Suprema.

New Features and Improvements

1. Supports a new BLE (Bluetooth Low Energy) chip.
    - The BLE chip parts of the hardware have been changed, and the firmware has been upgraded to be compatible with both the existing and new BLE chips.

Firmware Version 1.2.3 (Build No. 1.2.3_210518)

Release | 2021-05-24

New Features and Improvements

1. Upgraded to the 1.1.1i version of OpenSSL.
2. Intelligent Slave Support
    - Intelligent Slave: A function that enables 1:1 or 1:N matching directly from the Suprema device and transmits the authentication result as OSDP card data to the third-party controller.
3. The transmission power level for Bluetooth Low Energy (BLE) has been adjusted.

Bug Fixes

1. If 31 slave devices were connected and one of the devices got disconnected, the master device rebooted. Affects version: 1.0.0
2. Incorrect BitCount was sent if a user authenticated with AoC when the device was connected to a 3rd-party system via OSDP. Affects version: 1.0.0
3. When using a static IP while the DNS server address was configured, a reboot on the device caused communication problems between the server and the device. Affects version: 1.0.0
4. It failed to reconnect to the slave device after downgrading its firmware version to 1.1.0. Affects version: 1.0.0
5. Device responded that it supported transparent mode by OSDP_PDCAP when connecting as a slave while it did not support it. Affects version: 1.0.0
6. When calling the BS2_ResetConfigExceptNetInfo API from the BioStar Device SDK, a 'Timeout' error occurred. Affects version: 1.0.0
7. The OSDP LED Temporary command did not work properly. Affects version: 1.0.0
8. The network reset on the first use was needed to use OSDP default keys to communicate. (for devices released with the firmware version 1.2.0 or later) Affects version: 1.2.0
9. It was able to communicate using default keys after changing the key settings when the device was connected to a 3rd-party device via OSDP. Affects version: 1.0.0
10. Secure communication was not available by using the default key after downgrading firmware to version 1.1.0 or below which does not support encryption. Affects version: 1.2.0

Firmware Version 1.2.2 (Build No. 1.2.2_201006)

Release | 2020-10-15

New Features and Improvements

1. Separated event logs of Mobile Access cards and RFID cards.
2. Support to mobile key deletion when deleting a device data from the Airfob application.

Firmware Version 1.2.1 (Build No. 1.2.1_200612)

Release | 2020-06-26

New Features and Improvements

1. Support encryption for the blacklist and user ID set as an administrator when migrating user information.
2. Improved not to initialize the network and SSL settings when the device ID is changed.

Bug Fixes

1. Issue that the value is not sent to the server since corrupted logs occur.
2. Issue that the connection of the slave device is disconnected when the slave device is connected.
3. Issue that the option for card types is deactivated when the device is connected as a slave after the factory reset.
4. Issue that logs of devices are not sent to the server after the factory reset.

Firmware Version 1.2.0 (Build No. 1.2.0_200409)

Release | 2020-04-13

New Features and Improvements

1. Support to the Change Deivce ID.
2. Enhancement in the security of the device.
    - Restrict unencrypted connections.
    - Support for Secure Tamper on slave devices.
    - Enhancement in the security of encryption keys.
    - Encrypt user information.
    - Restrict access through communications such as TCP/IP, RS-232, and USB.
3. Support for connecting new devices.
    - XPass D2 (Rev 2)
4. Improved Anti-passback zone to operate based on the door status.
5. Support to the BioStar 2 Mobile Access.
6. Support to the Mobile Access V1.1.
7. Support to the scheduled unlock function for each floor when controlling elevator.

Bug Fixes

1. Problem that the password set in the Device Manager app is not initialized even if the factory default is performed.
2. The device does not recognize LF (Low Frequency) cards well.
3. OSDP Communication does not work normally if the value sent to the slave device is greater than the defined value.
4. The Secure Tamper occurs again if a user reboots the device after setting the smart card layout while the Secure Tamper has already occurred.
5. The event log of the device is not sent in the order in which it occurred.

Firmware Version 1.1.0 (Build No. 1.1.0_190911)

Release | 2019-09-18

New Features and Improvements

1. Support to the Mobile Credential (NFC, BLE).
2. Added CSN mask for the unknown card type.
    - Before: Cards other than MIFARE, iCLASS, DESFire, iCLASS Seos, FeliCa, ISO-15693 was recognized as CSN.
    - After: User can select whether to recognize cards other than MIFARE, iCLASS, DESFire, iCLASS Seos, FeliCa, and ISO-15693.

Bug Fixes

1. The device recognizes the DESFire(Adv) card as a CSN if the device is restarted when the smart card layout set as DESFire (Adv).
2. The LED indicator operates abnormally when the Device Manager app is disconnected.
3. Changed the color of some of the status lights that previously worked in yellow to green.
4. When using firmware V1.0.1 the connection to the I/O device that using the firmware version below is lost.
    - DM-20 FW V1.1.2
    - OM-120 FW V1.0.0
    - Secure I/O 2 FW V1.2.1
5. The master device intermittently reboots when upgrading the firmware of the slave device.

Firmware Version 1.0.0 (Build No. 1.0.0_190530)

Release | 2019-05-30

Initial firmware developed.

Suprema Inc.

17F Parkview Tower, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13554, Rep. of KOREA

Tel: +82 31 783 4502 | Fax: +82 31 783 4503 | Inquiry: sales_sys@supremainc.com

For more information about Suprema's global branch offices,
visit the webpage below by scanning the QR code.
https://supremainc.com/en/about/global-office.asp

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