

# BioStation 2

## Firmware Revision Notes

Version 1.7.1

# Firmware Version 1.7.1 (Build No. 1.7.1\_181204)

Release: 2018-12-11

1. New Features and Improvements
  - 1.1. Improves and adds the features for previous modifications.
    - The bit of the fingerprint image is broken.

# Firmware Version 1.7.0 (Build No. 1.7.0\_181126)

Release: 2018-11-29

## 1. Important Bug Fix

- 1.1. Wiegand Out is not output when authenticating with blacklist card.
- 1.2. With Bypass enabled, authentication failure message is not displayed when unregistered ID is authenticated.
- 1.3. The user cannot issue a new File after the App and File are created when issuing the DESFire card.
- 1.4. A code is added to prevent the authentication fails because the cache memory is broken.

## 2. New Features and Improvements

- 2.1. Support to AES encryption type for DESFire card.
- 2.2. Support to DESFire/DESFire EV1 Advanced option.
- 2.3. Support to the creation of up to 2048 Access Levels and Access Groups.
- 2.4. If a user is registered, modified, or deleted, the event log shows whether the editing was done on the server or on the device.
- 2.5. If the data transmission fails when communicating with OSDP, it is transmitted again.
- 2.6. Improves the data protection.
  - Increase the items to encrypt the data.
  - Support to setting the period for storing the personal information.
  - Support for additional features in Secure Tamper: Delete Users, Logs, Data Encryption Key, SSL certificate, and Smart Card Layout when a secure tamper event occurs.
- 2.7. Change the maximum value of the width for the Wiegand Input.
- 2.8. Support to the number of users, fingerprints, faces, and cards in Manage Users in Device.
- 2.9. Support for Individual Authentication Successful Messages and Working alarm time reports.
- 2.10. When using The bypass, The card ID is output as Wiegand even though a user authenticates with the AoC.

## 3. Bug Fix

- 3.1. The alarm can be released in the Floors status after a fire alarm occurs when the elevator is configured as a Fire Alarm Zone.
- 3.2. The relays operate differently from the previous status if the slave device is reconnected.
- 3.3. Modified the firmware of that slave device so that it cannot be upgraded when a device not supported by the master device is connected as a slave.
- 3.4. If a user authenticates the fingerprint consecutively to the slave device, the fingerprint sensor will not operate.
- 3.5. Change some special characters (\, /, :, \*, ?, ", ', ` , <, >, |, .) to be unavailable when setting a user name.
- 3.6. An administrator cannot set the permissions of other administrators.
- 3.7. If a user authenticates the card to XPass D2 connected to as a slave device, the beep sounds twice.

- 3.8. 1: N authentication can also be added on the slave device even though the master device is only capable of 1: 1 authentication.
- 3.9. The bit of the fingerprint image is broken.
- 3.10. If the user uses the BS\_GetLogBlob command to get the door ID, the door ID is not output normally.
- 3.11. Amharic Unicode characters are not displayed normally.

# Firmware Version 1.6.2 (Build No. 1.6.2\_180821)

Release: 2018-08-23

1. Bug Fix
  - 1.1. The device restarts when the fingerprint authentication fails.

# Firmware Version 1.6.1 (Build No. 1.6.1\_180531)

Release: 2018-06-18

## 1. New Features and Improvements

### 1.1. Support the bypass mode through Wiegand output on smart cards.

- Bypass mode: It makes the device send out Card Data to 3rd party device without making an authentication. With this mode, the device works as a dummy device, and card data only can be transmitted through Wiegand.

### 1.2. Support for connecting new devices.

- BioLite N2(BLN2-PAB), XPass D2(XPD2-GDB, XPD2-GKDB)

## 2. Bug Fix

### 2.1. Issue where the device restarts when authenticating with an unregistered fingerprint.

# Firmware Version 1.6.0 (Build No. 1.6.0\_180304)

Release: 2018-03-05

1. New Features and Improvements
  - 1.1. Support Interlock zone, Muster zone.
  - 1.2. Support Daylight Saving Time setting.
  - 1.3. Improves Trigger & Action for duress finger.
  - 1.4. Support Private Authentication on AoC.
  - 1.5. Add and change the function that import & export USB logs and users to be compatible with BioStar 2 V2.6.
    - Before: Provided a folder such as Device Type\_Device ID\_YYMMDD\_HHMM.
    - After: Provides a compressed file such as BioStar2\_YYYYMMDD\_HHMMSS.tgz.
    - Beginning with V2.6.1 on BioStar 2 platform.
  - 1.6. Improves to handle the encryption key of the important information stored in database differently from server to server.
  - 1.7. Support One Device Mode(Legacy).
  - 1.8. Support simultaneous use of Wiegand input and output.
  - 1.9. Support the secure tamper.
  - 1.10. Support User Photo Display(When authentication is succeed)
  - 1.11. Support connecting with BioLite N2, XPass D2.

# Firmware Version 1.5.0 (Build No. 1.5.0\_170919)

Release: 2017-09-22

1. New Features and Improvements
  - 1.1. Support the intrusion alarm zone.
  - 1.2. Support the ethernet zone.
    - Ethernet zone: The zone master role is performed by a master device, not the BioStar 2 server, and establishes the zone using Ethernet communication between the devices.
  - 1.3. Support fingerprint enrollment on slave device.
  - 1.4. Improves user transfer speed.
  - 1.5. Support SEOS smart cards (Elite Key).
  - 1.6. Improves performance of SEOS smart card RF reading.
  - 1.7. Performs the Access on Card (AoC) matching when connected to a master device as a slave device.
  - 1.8. Support OP6 sensor.

## Firmware Version 1.4.1 (Build No. 1.4.1\_170727)

Release: 2017-07-31

1. Bug Fix
  - 1.1. Issue where the device cannot recognize SEOS smart cards when multi-credential authentication mode (iCLASS SEOS card + Fingerprint) is used continuously.

## Firmware Version 1.4.1 (Build No. 1.4.1\_170707)

Release: 2017-07-31

1. New Features and Improvements
  - 1.1. Support SEOS smart cards.
  - 1.2. Support validation of the device settings.
  - 1.3. User Operator cannot change another user's Operator Level as Administrator.
2. Bug Fix
  - 2.1. Issue where the device is malfunctioned when device log is full.
  - 2.2. Issue where the device is malfunctioned when receiving or sending Wiegand signals.

## Firmware Version 1.4.0 (Build No. 1.4.0\_170315)

Release: 2017-03-27

1. Bug Fix
  - 1.1. The bootloader and kernel are changed.

## Firmware Version 1.4.0 (Build No. 1.4.0\_170220)

Release: 2017-02-20

1. New Features and Improvements
  - 1.1. Firmware rebuild due to changing memory capacity.

## Firmware Version 1.4.0 (Build No. 1.4.0\_170110)

Release: 2017-01-20

1. New Features and Improvements
  - 1.1. Support elevator control.
  - 1.2. Support for alphanumeric ID.
  - 1.3. Support for Secure Communication (SSL & TLS)
  - 1.4. Private authentication mode can be added on access-on-card.
  - 1.5. Up to 100,000 cards can be added to blacklist

# Firmware Version 1.3.1 (Build No. 1.3.1\_160921)

Release: 2016-09-22

1. Bug Fix
  - 1.1. Memory leak issue when a T&A device is registered as a slave device and users authenticate after pressing a T&A key.
  - 1.2. Issue where the master device reboots when a device with an old firmware version is connected as a slave device and a user authenticates with a card on the slave device.
  - 1.3. Issue where card authentication results did not appear when a slave device is connected.

# Firmware Version 1.3.0 (Build No. 1.3.0\_160624)

Release: 2016-06-24

1. Added operation condition and action – device sound alarm support
2. NFC support.
3. Support for 256 bit card ID.
4. Support for automatic door configuration.

## Firmware Version 1.2.1 (Build No. 1.2.1\_160519)

Release: 2016-05-19

1. Bug Fix
  - 1.1. Issue where BS2-OMPW's screen displayed improperly.

## Firmware Version 1.2.1 (Build No. 1.2.1\_160317)

Release: 2016-03-17

1. Bug Fix
  - 1.1. Logs not transmitting properly when logs in the device reaches the storage limit.

## Firmware Version 1.2.0 (Build No. 1.2.0\_160204)

Release: 2016-02-04

1. Bug Fix
  - 1.1. Issue with door relay operation.
  - 1.2. Issue where the day only appears in English after changing the theme.
  - 1.3. Issue with alarm lasting time.
  - 1.4. Issue where user ID appears in duplicates.

## Firmware Version 1.2.0 (Build No. 1.2.0\_160106)

Release: 2016-01-06

1. Support for scheduled lock/unlock zones.
2. Support for global anti-passback.
3. Bug Fix
  - 3.1. Door relay not working properly after restarting the device.

## Firmware Version 1.1.0 (Build No. 1.1.0\_150908)

Release: 2015-09-08

1. Bug Fix
  - 1.1. Authentication fail issue when authenticating from slave devices.

## Firmware Version 1.1.0 (Build No. 1.1.0\_150819)

Release: 2015-08-19

1. Bug Fix
  - 1.1. LSB recognition problem with DESFire cards.

## Firmware Version 1.1.0 (Build No. 1.1.0\_150805)

Release: 2015-08-05

1. Support for DM-20 and third party Wiegand card readers.

# Firmware Version 1.0.1 (Build No. 1.0.1\_150423)

Release: 2015-04-23

1. Bug Fix
  - 1.1. Fingerprint can't be input when using both anti-passback and dual mode authentication.
  - 1.2. Card information read erroneously when the card's byte order is changed to LSB.

# Firmware Version 1.0.0 (Build No. 1.0.0\_150312)

Release: 2015-03-12

1. Initial firmware developed.



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