

# BioEntry R2

## Firmware Revision Notes

Version 1.4.1

# Firmware Version 1.4.1 (Build No. 1.4.1\_210511)

Release: 2021-06-01

1. Bug Fix
  - 1.1. Card data were output with the wrong BitCount while the device was communicating with a 3rd party controller via OSDP. (Affects version: v1.0.0)
  - 1.2. While the device was communicating with a 3rd party controller via OSDP, the device connected as a slave responded that it supported transparent mode by OSDP\_PDCAP even though it did not actually support that mode. (Affects version: v1.0.0)
  - 1.3. It was not able to communicate with a 3rd-party controller via OSDP with the default key before network initialization. (only for devices released with the firmware version 1.4.0 or later) (Affects version: v1.4.0)
  - 1.4. 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: v1.3.0)
  - 1.5. After initializing the slave device's settings, it was not able to connect it to a 3rd-party controller. (Affects version: v1.0.0)
  - 1.6. Secure communication was not available by using the default key after downgrading firmware to version 1.3.1 or below which does not support encryption. (Affects version: v1.4.0)

# Firmware Version 1.4.0 (Build No. 1.4.0\_200521)

Release: 2020-05-27

1. New Features and Improvements
  - 1.1. Added feature to change device ID.
  - 1.2. Enhancement in the security of the device.
    - Supports secure tamper.
    - Enhancement in security of encryption keys.
    - Restrict access through communications such as TCP/IP, RS-232, and USB.
    - Encrypt and migrate user information.
  - 1.3. Changed the color of LED indicator.
2. Bug Fix
  - 2.1. A bug where OSDP Communication does not work normally if the value sent to the slave device is greater than the defined value.
  - 2.2. A bug when a device is connected as a slave device after factory default, the 'Card Type' on the device setting page becomes inactivated.

# Firmware Version 1.3.1 (Build No. 1.3.1\_190829)

Release: 2019-09-19

1. New Features and Improvements
  - 1.1. Improved the speed at which the device recognizes 13.56 MHz cards.
  
2. Bug Fix
  - 2.1. The device recognizes the DESFire(Adv) card as a CSN if the device is restarted when the smart card layout set as DESFire(Adv).

# Firmware Version 1.3.0 (Build No. 1.3.0\_190626)

Release: 2019-07-12

1. New Features and Improvements
  - 1.1. OSDP Standardization
    - Improved to comply with OSDP V2.1.7 protocol when connecting with 3rd-party controllers.
  - 1.2. Supports options for selection by card type.
  - 1.3. Supports the latest version of I/O module Micom (V1.3.1).
  - 1.4. Firmware upgrade status is added to LED status indicator.
  
2. Bug Fix
  - 2.1. Applies FA improvement algorithm.
  - 2.2. Authentication results are printed after LED status indicator changes color to normal during authentication.

# Firmware Version 1.2.0 (Build No. 1.2.0\_181106)

Release: 2018-11-29

1. New Features and Improvements
  - 1.1. Support to AES encryption type for DESFire card.
  - 1.2. Support to DESFire/DESFire EV1 Advanced option.
  - 1.3. If the data transmission fails when communicating with OSDP, it is transmitted again.
  
2. Bug Fix
  - 2.1. When communicating with OSDP, the LED color is displayed differently from the setting.
  - 2.2. Improves I/O module Input and Output process.
  - 2.3. The device cannot read CSN because the card recognized as an NFC tag.

# Firmware Version 1.1.1 (Build No. 1.1.1\_180720)

Release: 2018-07-25

1. Bug Fix
  - 1.1. The device restarts when authentication fails.
  - 1.2. The RF module of the device gets damaged when using a 13.56 MHz card.

# Firmware Version 1.1.0 (Build No. 1.1.0\_180311)

Release: 2018-03-23

1. New Features and Improvements
  - 1.1. Support ISO14443A 10 Byte CSN.
  
2. Bug Fix
  - 2.1. Problem with reading mobile smart cards on Galaxy S4.
  - 2.2. Galaxy S5 NFC is recognized as a CSN card when authenticating with NFC and the authentication fails.
  - 2.3. Fixed that Hard APB authentication failure notification is distinguished from general authentication failure notification.
  - 2.4. Fixed to generate buzzer or sound when starting the intrusion alarm.
  - 2.5. Problem where the response rate was slow when Arm / Disarm occurred.
  - 2.6. Problem that can not connect with OSDP devices.

# Firmware Version 1.0.0 (Build No.1.0.0\_170904)

Release: 2017-09-04

1. Initial firmware developed.



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