

# **BioEntry Plus**

## **Firmware Revision Notes**

**Version 1.5**



## Revision Notes

### **Firmware Version 1.5**

**Build Number V1.5\_110224**

2011-02-24

- Support Interlock Zone.
  - It is possible to configure two doors as an interlock zone.
- Support Mifare Plus Card.
  - Support CSN reading.
  - Read data saved in each sectors of Mifare Plus Card.
  - Write data to each sectors of Mifare Plus Card.
- Support Mifare Desfire and Ultralight card
  - Support CSN reading only.
- Upgrade Fingerprint algorithm
  - Extracting algorithm is improved.
  - Matching algorithm is improved.
- Support ANSI378 fingerprint template format.
- In case of succeed in network setting, BEEP sounds and green LED turns on.
- The following bugs are fixed.
  - Using HID card, there was no validation about card data length.
  - Using Unlock Time, it does not occur forced open event.
  - Using Command card to enroll a new user, previously enrolled user card cannot be used any more.

### **Firmware Version 1.4**

**Build Number V1.4\_091223**

2009-12-23

- Support extended alarm zone operation.
  - It is possible to configure any input port of BioEntry Plus as an external sensor input for extended alarm zone.
  - It is possible to configure any input port of BioEntry Plus as an external

arm/disarm input for extended alarm zone.

- It is possible to configure any output port of BioEntry Plus as an arm/disarm status output for extended alarm zone.
- Support arm/disarm initiation on alarm zone by pre-defined keypad.
- Support a turnstile-type door.
  - It is possible to configure BioEntry Plus to close door upon sensing door status input within door open time.
- Server matching mode is reinforced.
  - BioEntry Plus will automatically switch to local matching mode upon detection of disconnection with server.
- Support Wiegand output of card ID in case of template-on-card matching.

**Firmware Version 1.3**

**Build Number V1.3\_090612**

2009-06-12

- Support Extended Wiegand mode.
  - BioEntry Plus of Extended Wiegand mode is capable of conventional Access Control Unit with regards to 3<sup>rd</sup> party RF reader.
    - ◆ 3<sup>rd</sup> party RF reader attached to a BioEntry Plus Wiegand mode of which is configured as Extended will be added and recognized as an independent device within BioStar V1.2 or later.
    - ◆ Once attached, such a RF reader can act as a Door or Zone device.
- TCP Keepalive mechanism is enabled to facilitate detecting abnormal link down.
- Parameter checking is reinforced to prevent device from saving invalid configuration data (especially by misuse of SDK APIs).
- Card ID data is pre-processed before being used as per achieving compatibility with different formats from various RF readers having their own Wiegand format.
- Held open alarm is automatically released after the door is recognized to be closed.

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**Firmware Version 1.2****Build Number V1.2\_081006**

2008-10-06

- Support BioStar, a new access control software of Suprema.
  - Key differences of BioStar over BioAdmin in terms of BioEntry Plus firmware are as follows:
    - Door configuration
      - ◆ One device can control only one door, i.e., ‘two door’ mode is not supported. Activating an additional relay is possible, though.
      - ◆ “Door relay” can be set as the device’s own relay, other device’s relays or SIO’s relays in the same RS485 network. (SIO means Secure I/O)
      - ◆ “RTE” or “Door sensor” can be set as the device’s own input of SIO’s input in the same RS485 network. (SIO means Secure I/O)
    - RS485 network
      - ◆ In a RS485 network, a host device should be unique and the number of slave devices is up to 7, among which 4 SIOs can be included by maximum.
      - ◆ If a host device is connected to PC by LAN, it is possible to access data of RS485-networked slave devices from PC. It means, LAN connection is not necessary between PC and slave devices.
      - ◆ Except “Door configuration”, it is not possible to control or monitor other device’s relay or input ports in a RS485 network.
    - Zone configuration
      - ◆ Access Zone, Alarm Zone and Fire Alarm Zone are newly supported.
      - ◆ In Access Zone, user data, logs and time information can be synchronized among a master and member devices.
      - ◆ In Alarm Zone, any device can be set as a Arm or Disarm device and monitor any ‘intrusive’ action by specified input ports, and make alarming actions on that occasion.
      - ◆ In Fire Alarm Zone, the devices monitor a specified input sensor and forcibly

open all doors or do alarming action in case of fire alarm.

- TCP/IP performance is improved in many cases.
- Command card functionality is newly supported on Mifare card.
- APB zone is supported for a user templates saved in a Mifare card.
- Authentication will succeed on APB/Entrance Limit zone member device in case the device is not actually connected with zone master device.
- Solved problems for which a device will not connect to BioAdmin server after LAN cable disconnected and reconnected.

**Firmware Version 1.1**

**Build Number V1.1\_080602**

2008-6-2

- Standard template format, as defined in ISO 19794-2, is supported.
- Fake finger detection option is added. This option enhances security level by detecting fake fingerprint inputs, but does not guarantee 100% detection.
- The sensor driver is fine-tuned to enhance the authentication performance.
- New hardware revision is supported. The following features are provided only in the new hardware with 8MB flash memory.
  - The capacity for fingerprint templates is increased to 10,000 from 5,000.
  - Network reset switch is added. Refer to BioEntry Plus Installation Guide for details.

**Firmware Version 1.0**

**Build Number V1.0\_071009**

2007-10-9

- Created.