



# Firmware Change Log

## IPB7 Reader

V2.29.1



Workforce Management Solutions

Securing your time and resources

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This document is a listing of the changes made to the Impro Bio Reader firmware. Please take careful notice of the items highlighted in yellow.

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**IMPORTANT:**

**Config Tool V2.17.07.1 is to be used as of 2017-09-07**

**Data Compare Tool V2.17.07.0 is to be used as of 2017-09-07**

Ensure to use Configuration Tool V2.16.01.0 for EC3 V7.16 and above

Ensure to use Configuration Tool V2.15.11.0 for EC3 V7.13 and above

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## V2.29.1 – Release (2.17.10.0)

- Split config and read HID buffers
- Log Terminal info
- Reset HID after HID iClass config

### V2.29.0

- Add HID reader configure to 44-bit

### V2.28.3 – (2017-09 Fix)

- Finger info not logging correctly causing a resource error on the reader application. This would result in a Secugen records = 453 and fingerID count = 0. When a person tried to scan they would get **Holder not found**. A reader reset would resolve the issue as the resources would reset

## V2.28.2 – Release (2.17.07.3)

- Add Finger Info to the Data Compare Tool  
**Finger Pass "5"(100%), Finger Fail "0"(0%), Total Scanned "5"**

### V2.28.1 – Test Version

- Change fwrite parameters
- Use disable pin to do tag and password only

### V2.28.0 – Test Version

- Add debug to determine fingerprint deletes

## V2.27 – Release (2.17.07.0)

(Run with V7.41 controller firmware)

- Wait 5 seconds before starting controller. This is to accommodate data copy from flash to RAM.

## V2.26

(Run with V7.37 controller firmware)

- Stop sending reply on broadcast of sync, reset and time cmd

### V2.25

- Check load average and reset reader if CPU usage too high

## V2.24

- Improve file handling and decrease CPU usage

- Do a check for max fingers loaded on the secugen unit.
  - Reader was going into a delayed mode when the maximum was reached.

## V2.23

- Add in check on finger upload to exit while loop if network dip occur **(possible freeze solution)**

## V2.22

- Add in FD\_ISSET function when using select
- Add MSG\_DONTWAIT when reading socket **(possible freeze solution)**

## V2.21

- Set not connected when reader disconnected from controller

## V2.20

### (Run with V7.23 controller firmware)

- Add MstSq for image display and send image and name Booleans in parameter request

## V2.19

- Add enter id to scan card mode on display when keypad enabled

## V2.18

- Check finger on card as well as finger mode when doing iClass card scan
- Add image display functionality
- Disable finger scanner in timeout request

## V2.17

- Optimisation:
  - Improve some memcpy calls
  - Set MustReset flag instead of calling ShutDown function
  - Exit main loop instead of calling exit(0)
  - Change fwrite function call
  - Change fopen to binary read
- Add settings show on display using password C5079#

## V2.16

- Add in wiegand read error check **(for unknown tag clocks)**  
**NB: Please note that this does NOT fix the unknown tag issue. We have added a new event "Read Error Scan Again". This will indicate that the tag number was not read correctly and the tag must be scanned again. Unknown tag is now limited to tags that are not on the system.**

## V2.15

- Make Transnet pin 5 digits

## V2.14

- Make relays | inputs and wiegand read into separate threads.

## V2.13

- Change door sense close check on input read

## V2.12

- Made delay longer to enable the keypad
- Change host IP from loopback reader IP
- Change debounce from 20 to 5

## V2.11

- Fix pin validation on Pin and Password
- Slow down the wiegand – firmware too fast for hardware (unknown tag clocks)

## V2.10

- Move wiegand and HID flush after tag scan. Print tag number read
- Change input read from 100ms to 1000ms after input state change and pull and release of relay. Caused TCP to resend

## V2.09

- Fix insert/update/delete of fingers functions

## V2.08

- Add in debug to see setID message from which IP address on which port
- Make sure to send response to controller during finger upload

## V2.07

- Fix strncpy ContrSLAid, caused a memory violation

## V2.06

- Let the controller application be independent
- Only stop controller if reader pointing to a different controller

## V2.05

- Restructure server and config comms
- Check push button and red light present for display

## V2.04

- Remove cache clear every hour
- Add GPRS functionality
- Change display timeout to 10ms and remove HB set timer in params request
- Remove set default contr config
- Change beep timer to standalone firmware timers

## V2.03

- Fix FingerOnCard read error
- Add port to params config

## V2.02

- Reset App for Ipulse Software – Add a check for IPB7 fw.ver == 7.5.0 or 10.1.1.
- Change full upload timeout to 60 to 190 seconds for slow networks
- Close config and network interfaces file after opening and reading the file

## V2.01

- Add disable pin validation
- Set sync timer instead of sleep

## V2.00

- New virtual reader initial version