

**INVIXIUM**



## IXM Firmware Release Notes

Version 2.2.0.0



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## 1 IXM Firmware v2.2.0.0

INVIXIUM is pleased to announce the release of Firmware version 2.2.0.0. This package is specifically for IXM TITAN.

Following details are specific to this release:

**File Info:** TITAN\_Firmware\_2.2.0.0.zip (919 MB)

**IXM Firmware Version:** 2.2.0.0

**Package MD5:** 157DAB72A2E12CC61F95D9B572F2D1CF

Firmware Upgrade file details are:

**File Info:** ixm\_fwu\_2\_2\_0\_0.bin (193 MB)

**IXM Firmware Version:** 2.2.0.0

**Package MD5:** EE54734BBEEDB22A852F40E9A1D5DC24

Note:

1. It is critical to upgrade your IXM WEB to version 1.7.0.0 first, before upgrading your firmware.
2. Invixium recommends to upgrade firmware over either Ethernet or Wi-Fi (not Cellular).

### 1.1 Supported Product Models

Firmware version 2.2.0.0 is applicable specifically to all TITAN product models only.



## 1.2 New Features and Enhancements

### *General*

- Camera settings with following configurations:
  - Multiple Face Detection
- Added button to test WEB Cloud connection status under Communication app >> Web Cloud.
- User can skip fingerprint enrollment while enrolling a user.
- Auto-Sync feature added and can be configured from Settings app >> User Sync.

### *Enterprise*

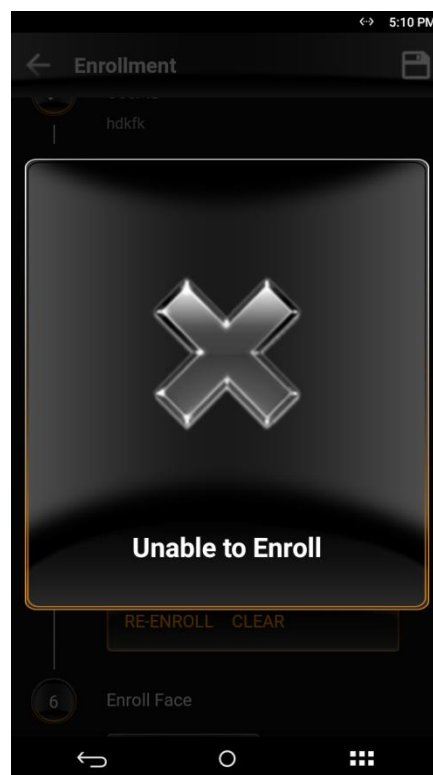
- Cellular settings added under Communication app
- Cellular TITAN device information shown in General Info app.
- Capturing user profile picture using TITAN camera while enrolling/editing user.
- Toggle ON/OFF Telnet server for Titan device from Device Security app >> Telnet
- RIO protocol integration for Genetec Access Control Panel.



## 1.3 Enrollment Guidelines

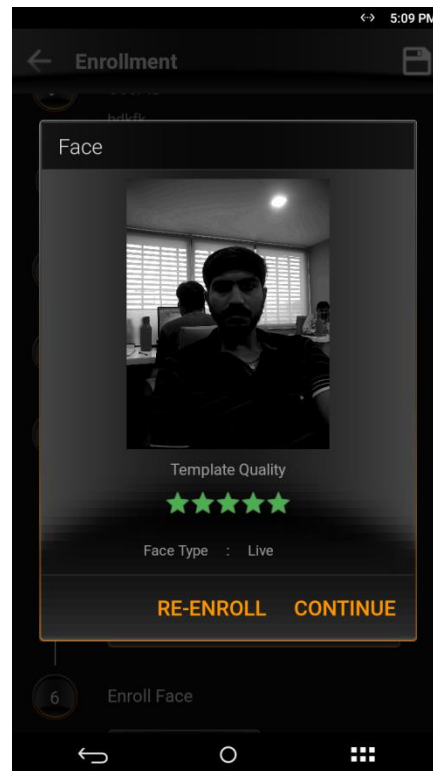
### 1.3.1 Face Enrollment

- After enrolling face of 5000 users, Invixium recommends to transfer user records from TITAN to IXM WEB.
- In case of a Low-quality face, TITAN will display the following warning message:





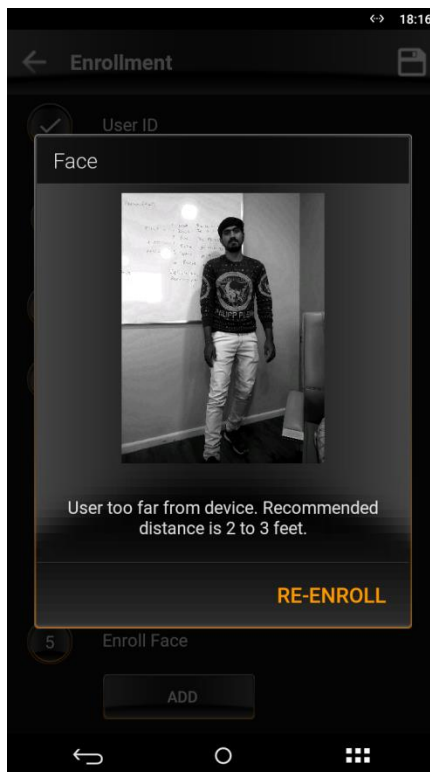
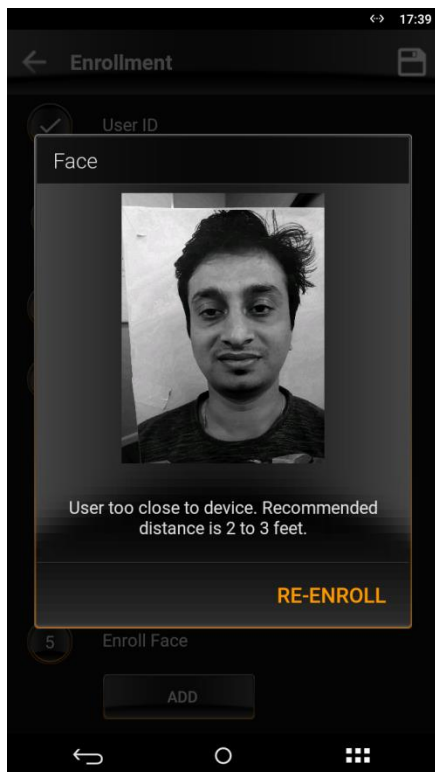
- During face enrollment, once face is captured, color coded “stars” will depict the enrolled face quality and face type



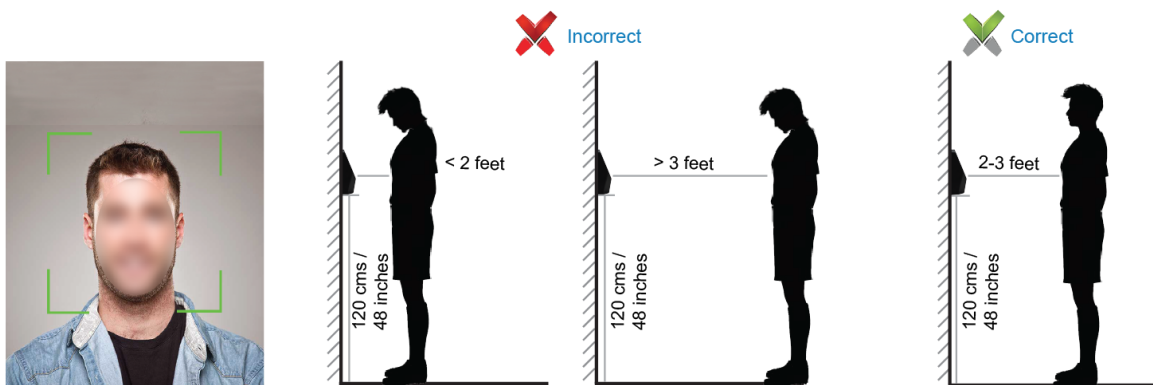
- Infixium recommends saving user with face type “Live”.



- Invixium recommends standing at a distance of 2 to 3 feet from the device when enrolling a face. If face is not captured from this distance, TITAN will display the following warning messages:



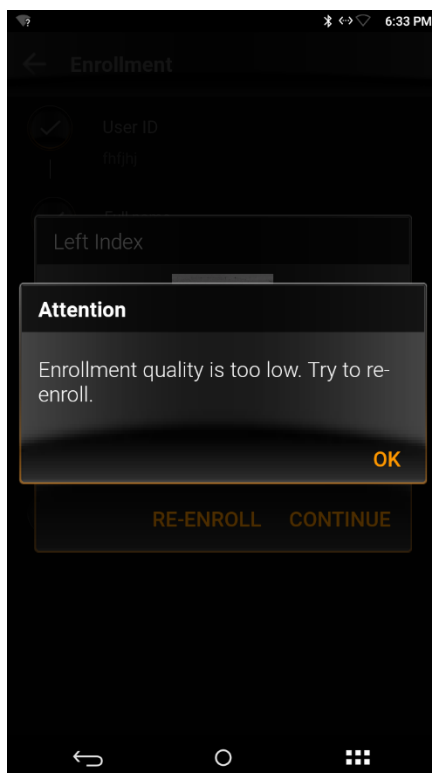
- Make sure your entire face is within the frame corners, which will turn green upon correct positioning.
- The user should look straight at the camera when enrolling their face. Avoid looking in other directions or turning your head during enrollment.





### 1.3.2 Finger Vein Enrollment

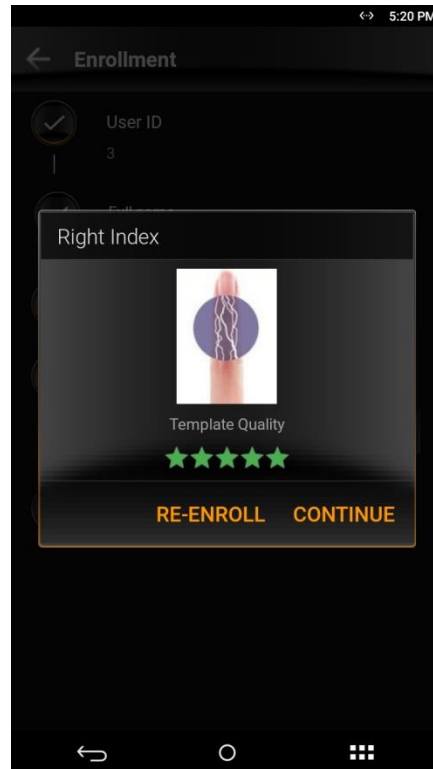
- In case of Low Quality Finger Vein enrollment, TITAN will display the following warning message:



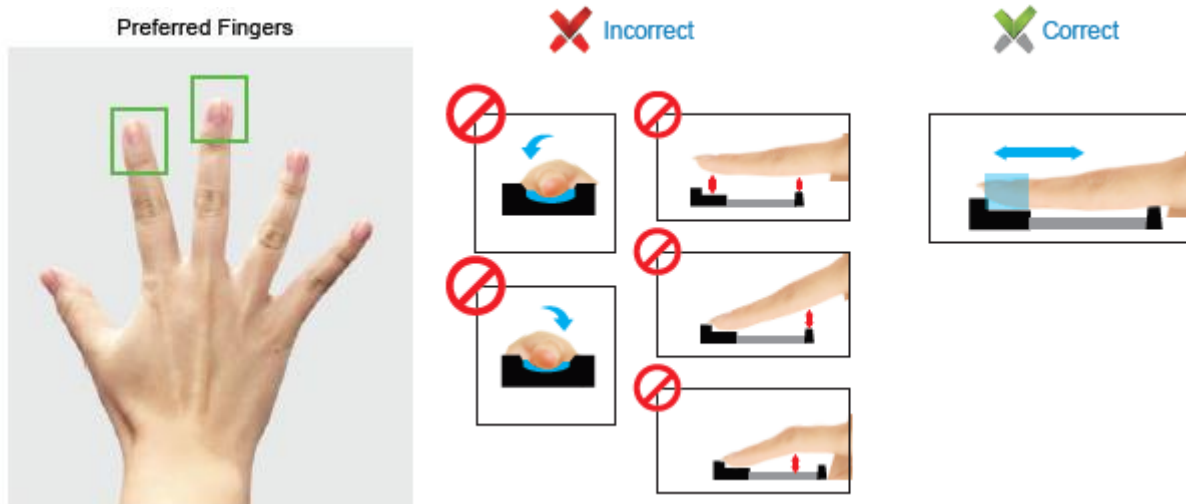




- During Enrollment, colour coded “stars” will depict the enrolled finger vein quality.



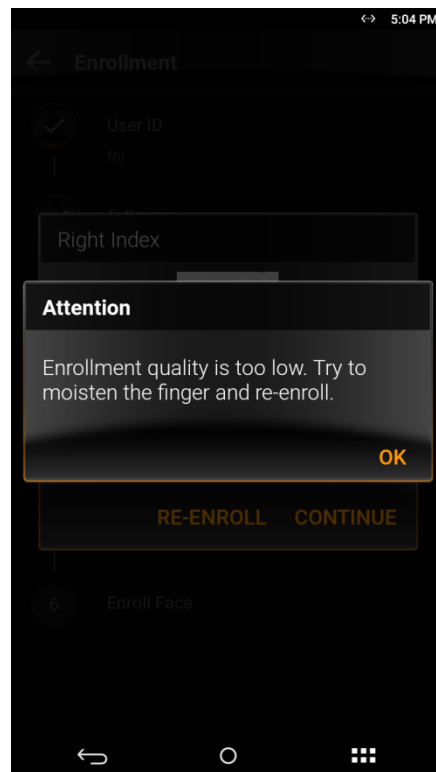
- The finger should be completely straight for the best finger vein scan.





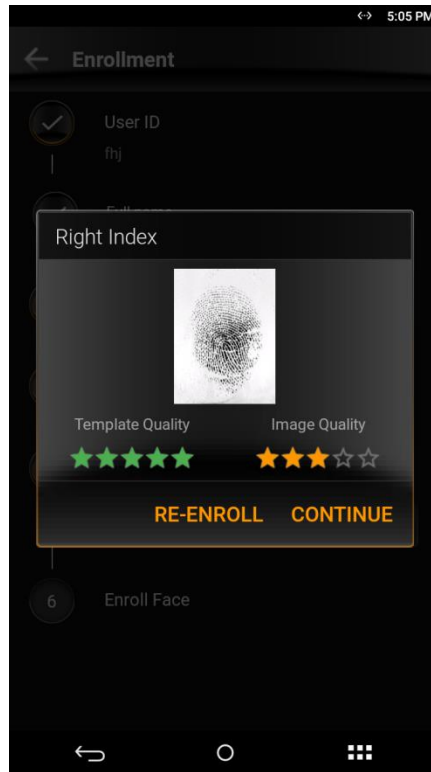
### 1.3.3 Fingerprint Enrollment

- In case of Low quality fingerprint, TITAN will display the following warning message:





- During Enrollment, colour coded “stars” will depict the enrolled fingerprint quality.



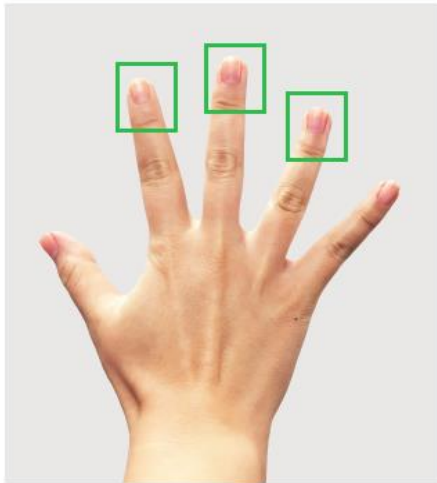
- The colour chart is as follows:

Colour	Fingerprint Quality
Red	Low
Orange/Yellow	Acceptable
Green	Good

- In certain scenarios, IXM devices may allow enrolling a LOW-quality fingerprint. INVIXIUM recommends user to moisten finger and re-enroll to get a good quality fingerprint image.
- Proper enrollment will reduce False Rejection Rate (FRR) and is key to best performance of biometric devices.



- For more information, refer to the following best enrollment practices which will help enroll a HIGH-quality fingerprint.



Preferred Fingers

	Incorrect	Correct	
Pressure	 Too Low	 Too High	 Good
Position	 Too Low	 Too High	 Good
Rotation	 Too Low	 Too High	 Good
Condition	 Dry	 Wet	 Good



## 1.4 Resolved Defects

Following defects were resolved after the release of TITAN firmware v2.1.0.0:

No.	Description
1	TITAN device with SecuGen sensor reboots automatically.
2	Cloud communication is not stable due to which device requires manual restart on daily basis to keep it connected.
3	Presence Detect stops working.



## 1.5 Known Issues

No.	Description	Comments
1	TITAN takes around 20 minutes to upgrade.	Invixium recommends user to wait 20 minutes till device boot up sound plays.
2	TITAN device takes long for cellular network discovery after reboot.	This depends on the signal strength of GSM operator. (normally 2-5 minutes)