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How to Issue and Use Mobile Smart Cards

Starting BioStar 2.4.1, you can use your mobile phone as a smart card with 2nd generation devices and Xpass S2.

Android phones can work with the 2nd generation device's NFC features, but iOS phones do not have the NFC feature so it currently can only work with devices which have the Bluetooth feature.

Refer to our homepage to find which devices support bluetooth and NFC [Device comparison page](#)

Mobile Smart Card is supported with the versions below:

NFC

Mobile Device - Android 5.0 Lollipop OS or above

Mobile App - BioStar 2 Mobile 2.4.1 or above

Model & FW - XPS2M-V2 FW 2.4 or above

BS2-OMPW, BS2-OIPW FW 1.4 or above

BSA2-OMPW, BSA2-OIPW FW 1.3 or above

BSL2-OM FW 1.2 or above

BEW2-OAP, BEW2-ODP FW 1.1 or above

FST2-D, FST2-AWB FW 1.0 or above

BLE

Mobile Device - Android 5.0 Lollipop OS or above

iOS 9.0 or above

Mobile App - BioStar 2 Mobile 2.4.1 or above

Model & FW - FST2-AWB FW 1.0 or above

* Mobile Smart Card may not be used depending on manufacturers.

Host card emulation (HCE) was used to implement the mobile smart card feature.

Most of the latest Android devices use HCE but some devices may not support it.

Check with your phone manufacturer or the phone specification to see if your phone supports HCE.

Note that NFC and BLE communication specification may vary by manufacturers and models and there could be difference in performance.

Below is a chart showing the result of tests we have done internally:

Smart Phone Model	Phone OS Version	NFC	BLE
Galaxy S7	7	O	O
Galaxy S6 Edge+	6.0.1	O	O
Galaxy S6	6.0.1	X	O
Galaxy S4	5.0.1	O	O
Galaxy Note 5	6.0.1	O	O
Galaxy Note 4	6.0.1	X	O
Galaxy Note 3	5	O	O
Galaxy Note 2	4.4.2	X	X
LG G5	6.0.1	X	O
iPhone 6	10.2.1	X	O
iPhone 6+	10.3.1	X	O
iPhone 5	10.3.1	X	O
P20 Pro (Huawei)	8.1.0 (Oreo)	X	O

Internal tests were done with Korean model of the devices and the specification of smart phones may differ based on country.
Support for NFC may differ based on the manufacturing date even if it is the same model of device.

The operational read distance for NFC and BLE is within 10cm. The BLE read distance may differ based on your phone model.

Configuring BioStar

1. Log in to BioStar 2.
2. Configure a Smart Card format for your mobile smart card.

Refer to [How to issue smart cards](#)

3. Go to **Setting > SERVER**.
4. Switch **Mobile Card Enrollment** on.



5. A warning popup will appear showing the requirements.
6. Click **Ok**.
7. Go to the **DEVICE** menu.
8. Select your device.

9. On the **Authentication** tab **Smart Card Layout** select your Smart card **Layout** you configured.
10. Click **Apply**.

Issuing the Mobile Smart Card

1. Go to the **USER** menu.
2. Click **ADD USER**.
3. Enter user information such as Name, ID, Group etc.
4. Select an **Operator Level**. You can use the default **User** level for basic users. \
5. Enter a **Login ID** and **Password** to use when you log in to the mobile app.
6. Enroll a fingerprint for the user in the **+ Fingerprint** menu.
7. Click on **+Card**.
8. Select **Smart Card** on **Card Type**.
9. Select your **Device**.
10. Select your **Smart Card Type**.
11. Choose your fingerprint.
12. Click **Issue Mobile Card**.
13. Click **Apply**.

The screenshot shows the 'Enroll Card' window with the following details:

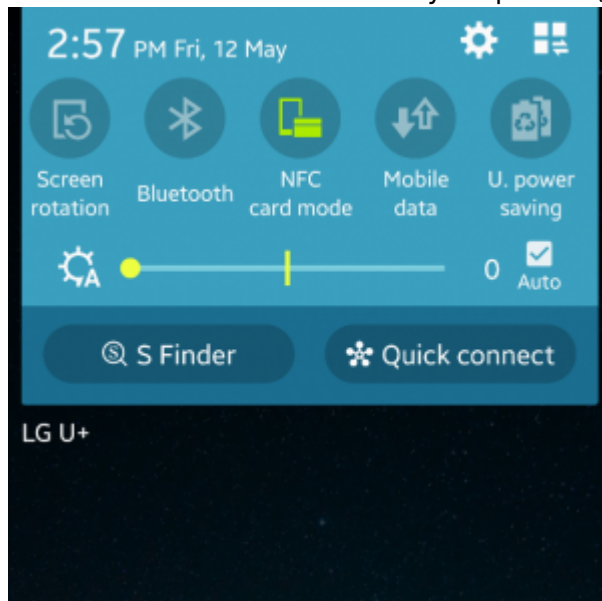
- Card Type:** Smart Card
- Device:** BioStation A2 939254397 (192....)
- Card Layout Format:** MobileSmartFormat
- Smart Card Type:** Access On Card
- Information Section:**
 - Card ID:** 1312
 - Access Group:** Full Access +1
 - Card ID:** 1312
 - PIN:** (empty field)
 - Period:** 2000-01-01 00:00~20...
- Fingerprint:** A section with a 'Test' button and a fingerprint sensor area labeled '1st Finger' showing a blue fingerprint pattern. Below it is a 'Duress' checkbox.
- Buttons:** 'Issue Mobile Card' (highlighted), 'Write Smart Card', and 'Cancel'.

Mobile card authentication mode will follow the device authentication mode (card only or card + fingerprint).

If you're using BioStar 2.6, you can configure private authentication mode for a smart card, including the mobile card.

Configuring the Mobile Phone

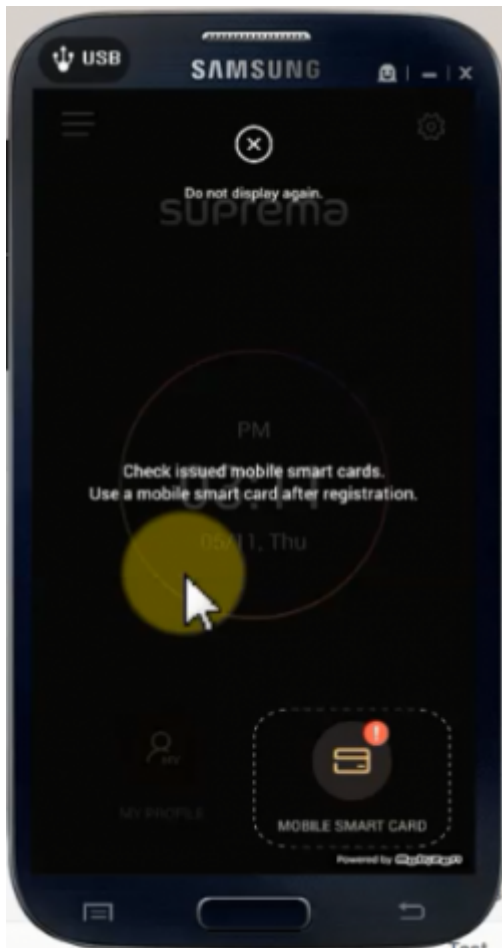
1. Turn on **NFC card mode** on your phone. (With iOS phones, turn on your Bluetooth)



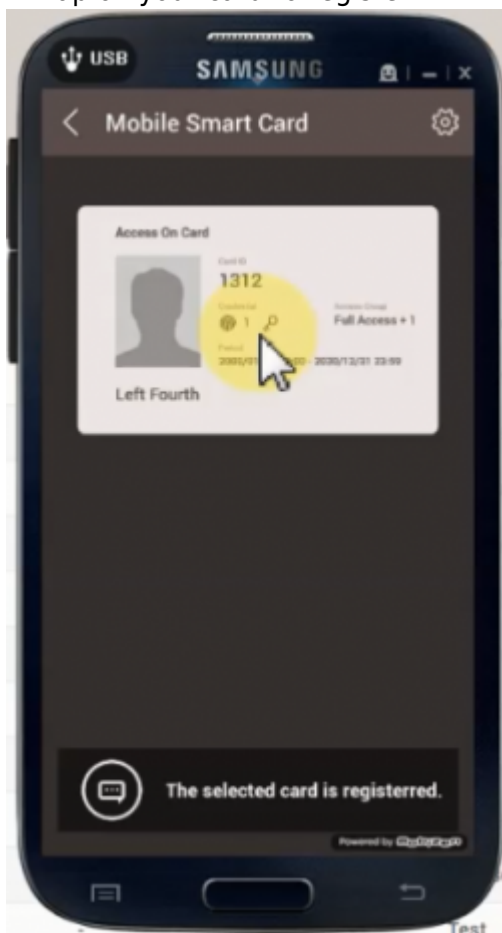
2. Go to the Google Play Store. (for iOS, App Store)
3. Download and install BioStar 2 Mobile App.
4. Enter your subdomain and credentials.

If your cloud is not configured yet, refer to [How to configure Cloud and Mobile App](#)

5. Log in.
6. Click on **MOBILE SMART CARD**.



7. Tap on your card to register it.

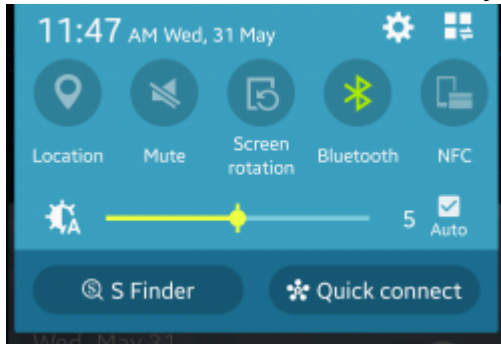


8. Go to your SUPREMA device and scan the phone on the device while the mobile app is open.

9. Enter your fingerprint to finish the authentication.

Using Bluetooth

1. Turn on the bluetooth feature on your smart phone.

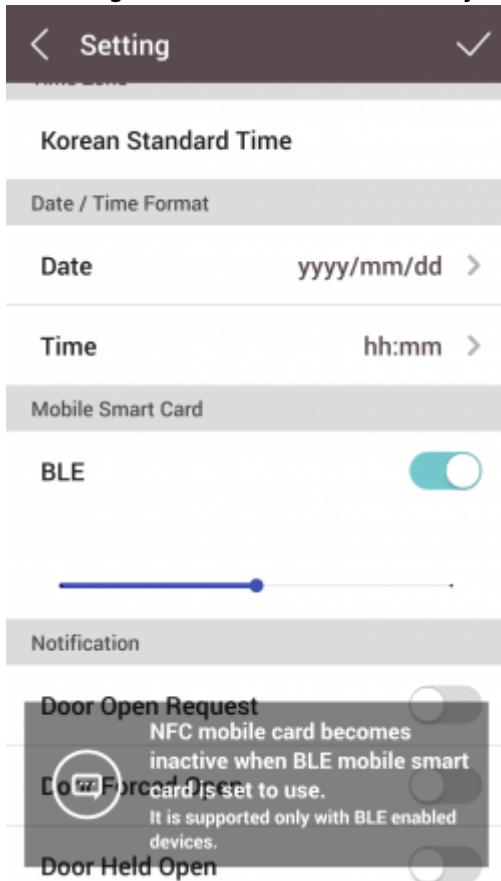


2. Log in to BioStar 2 mobile app.

3. Click on the gear icon on the right top corner to go into settings.

4. Turn **BLE** on.

5. Change the meter of the **BLE** if you want to change the distance in which the phone is read.



- Bluetooth feature is currently only available with FaceStation 2 AWB model. (May 2017)
- You cannot use the NFC and Bluetooth feature at the same time with a smart phone.

Demo Video

[2xtraining_mobile_smart_card_video.mp4](#)

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