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How to Issue and Use BioStar2 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.
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> Before reading this article, refer to Suprema Technical Support Site and see the difference between BioStar2 Mobile Smart Card and Suprema Mobile Credential.
> Refer to our homepage to find which devices support bluetooth and NFC if you need to use BioStar2 Mobile Smart Card. Device comparison page
> Refer to the license policy of BioStar2. Server License Specification

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:

NFC & BLE (updated 17 Dec 2018)
Galaxy A8
Galaxy Note 9
Galaxy S9
Galaxy Note 8
Galaxy S8 Plus
Galaxy S8
Galaxy S7 Edge
Galaxy Note 7
Galaxy S7
Galaxy S6 Edge Plus
Galaxy S6 Edge
Galaxy Note 5
Galaxy S4 Active
Galaxy S4
Galaxy Note 3
Galaxy A5
Galaxy J5
LG G3 Cat 6
HTC U11

Only BLE (updated 17 Dec 2018)
Galaxy S5 LTE-A
Galaxy Alpha
G7 ThinQ
V40 ThinQ
LG V30
LG G6
LG G5
LG G4
LG Wine Smart Jazz
Google Nexus 5
Google Nexus 5x
HTC One M8
Huawei P20 Pro
HUAWEI P10 Plus
HUAWEI Honor 6X
ZTE BLADE V8
Xiaomi Mi A1
Hongmi Note3 Pro
Xperia XZ Premium
Xperia Z2
Moto E4
iPhone X
iPhone 8 Plus
iPhone 8
iPhone 7 Plus
iPhone 7
iPhone 6s Plus
iPhone 6s

iPhone SE
iPhone XS

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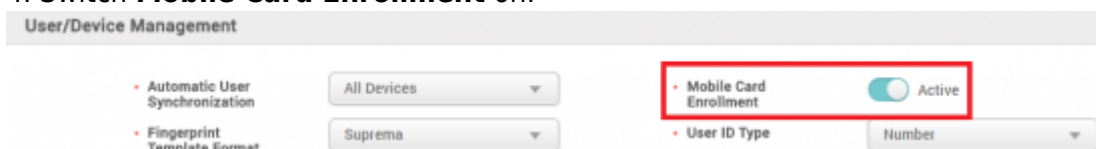
The operational read distance for NFC and BLE is within 10cm. The BLE read distance may differ based on your phone model.

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**.
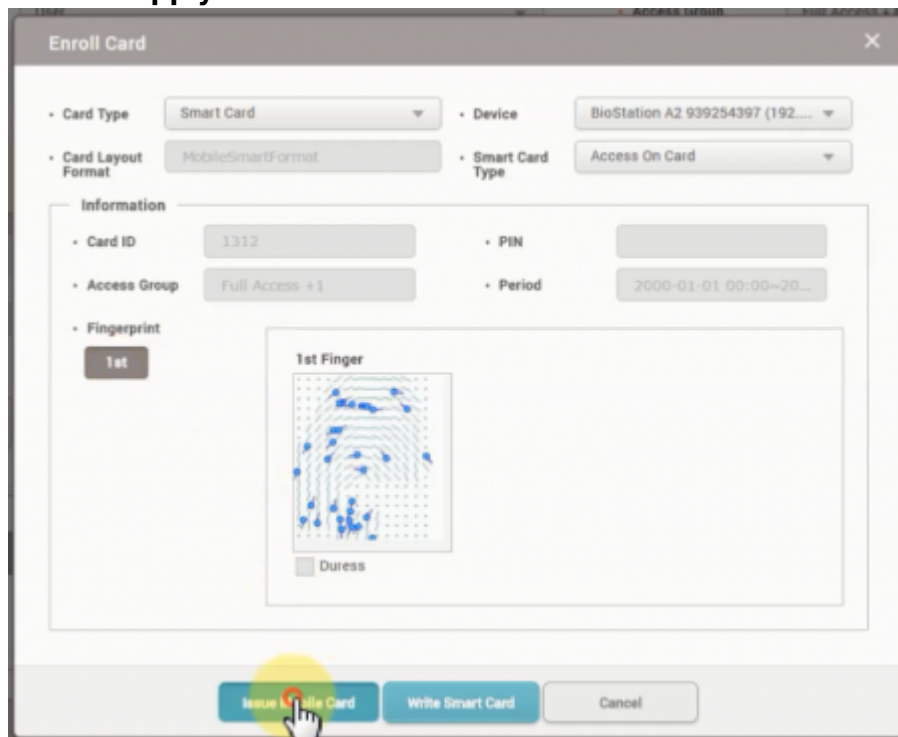4. Switch **Mobile Card Enrollment** on.

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**.

> 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.
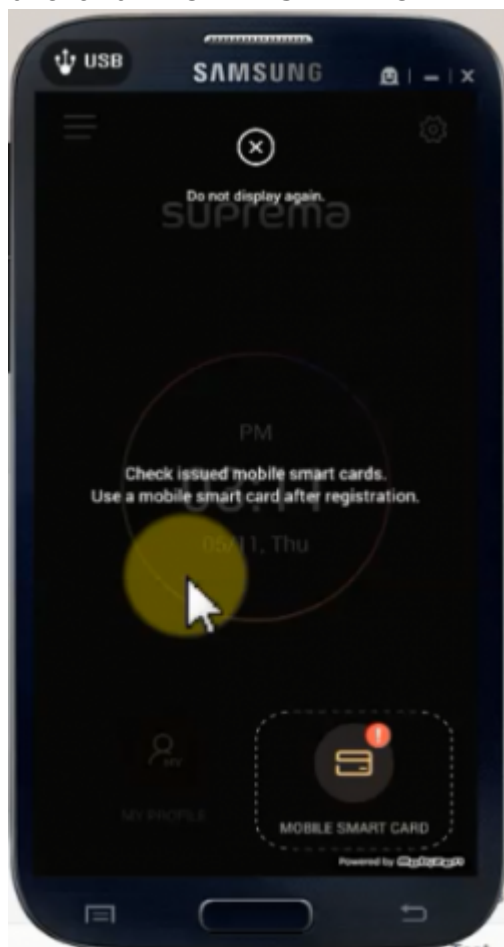
Configuring the Mobile Phone

1. Turn on **NFC card mode** on your phone. (With iOS phones, turn on your Bluetooth)
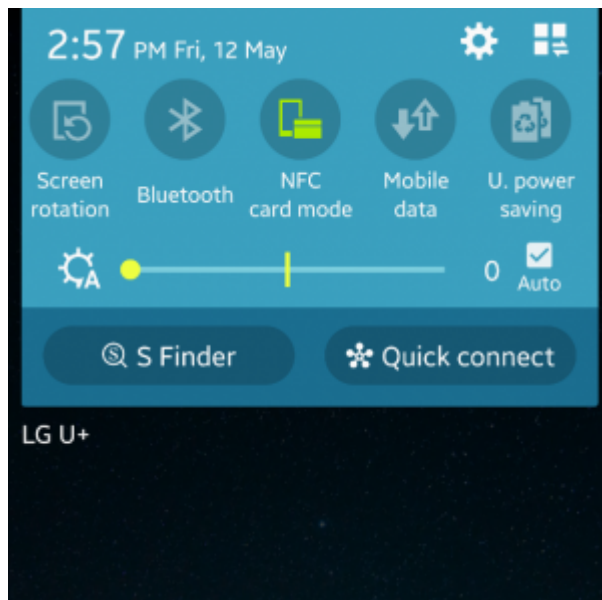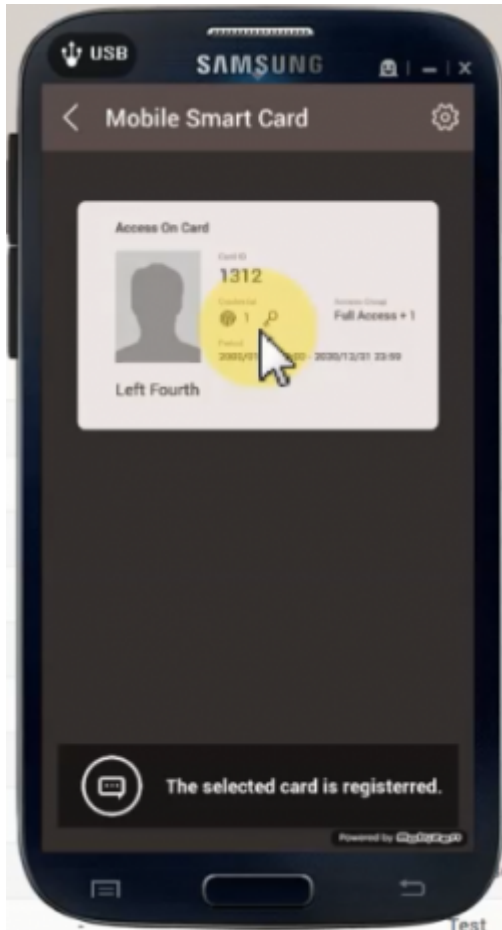
2. Go to the Google Play Store. (for iOS, App Store)
3. Download and install BioStar 2 Mobile App.
4. Enter your subdomain and credentials.

> If your cloud is not configured yet, refer to How to configure Cloud and Mobile App
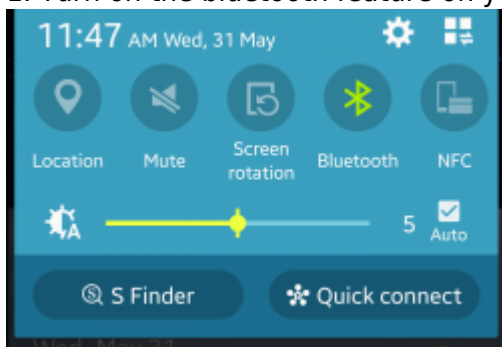
5. Log in.
6. Click on **MOBILE SMART CARD**.

7. Tap on your card to register it.

8. Go to you 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.

> With Android version 6.0 and above, you have to turn on your Location feature to use Bluetooth with the mobile application.

5. Change the meter of the **BLE** if you want to change the distance in which the phone is read.
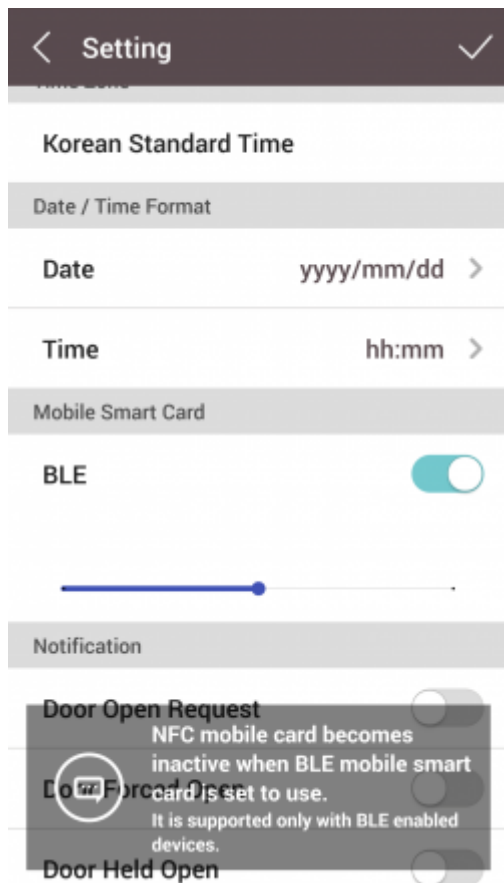
- Bluetooth feature is currently only available with FaceStation 2 AWB model. (May 2017)
- You cannot use the NFC and Bluetooth feature at the same time with a smart phone.

Demo Video

2xtraining_mobile_smart_card_video.mp4

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