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# How to Use Custom Smart Card Layout on Suprema Device Manager App

- Suprema Device Manager: v1.1.8 or above (Android OS)
- XPass D2: v1.7.1 or above

## What is Suprema Device Manager?

- This app is an application that allows you to check or change the settings of XPass 2 and XPass D2 and upgrade firmware. This application can be installed and used on users' mobile devices.
- [How to use Suprema Device Manager App](#)

## What is the Custom Smart Card, and why do you need this feature?

- Among the cases where a third-party system is integrated with BioStar 2/Suprema devices, there are cases where the Suprema device needs to read a smart card issued by a third-party system other than BioStar 2. We added the Custom Smart Card Layout function on BioStar 2 and Suprema Device Manager to support some of these cases.
- This article explains using the Suprema Device Manager app and the XPass D2 case.

- For an introduction to the Custom Smart Card Layout function of BioStar 2, please refer to the following article. (Relevant Article - [How to Setup Custom Smart Card Layout](#))

## Cases where Custom Smart Card Layout needs to be set up through Suprema Device Manager

1. When XPass D2 is used as a dummy reader for a 3rd party device
2. When it is difficult to change XPass D2 settings through BioStar 2

## Preparations

- Suprema Device Manager app (supported on Android OS)
- XPass D2 with v1.7.1 firmware

- If the firmware of your device is not v1.7.1, you can also upgrade the firmware through the Suprema Device Manager app (However, you must save the firmware on your mobile device).
- Refer to the linked document to understand how to upgrade XPass D2 firmware through the

Suprema Device Manager app. [How to use Suprema Device Manager App](#)

## Precautions

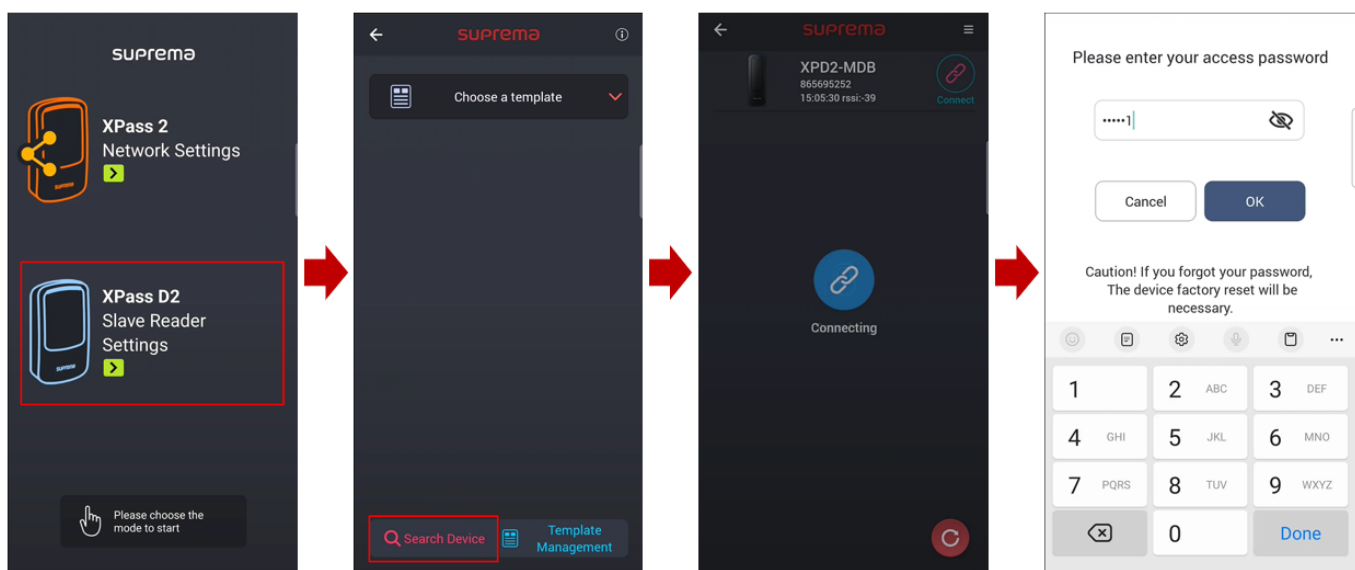
- Custom Smart Cards function only supports two types: MIFARE and DESFire.
- The customer needs to contact the Suprema team to receive consultation except for the above card types.

- Contact Suprema Sales ([Link](#))
- Contact Suprema Tech team ([Link](#))

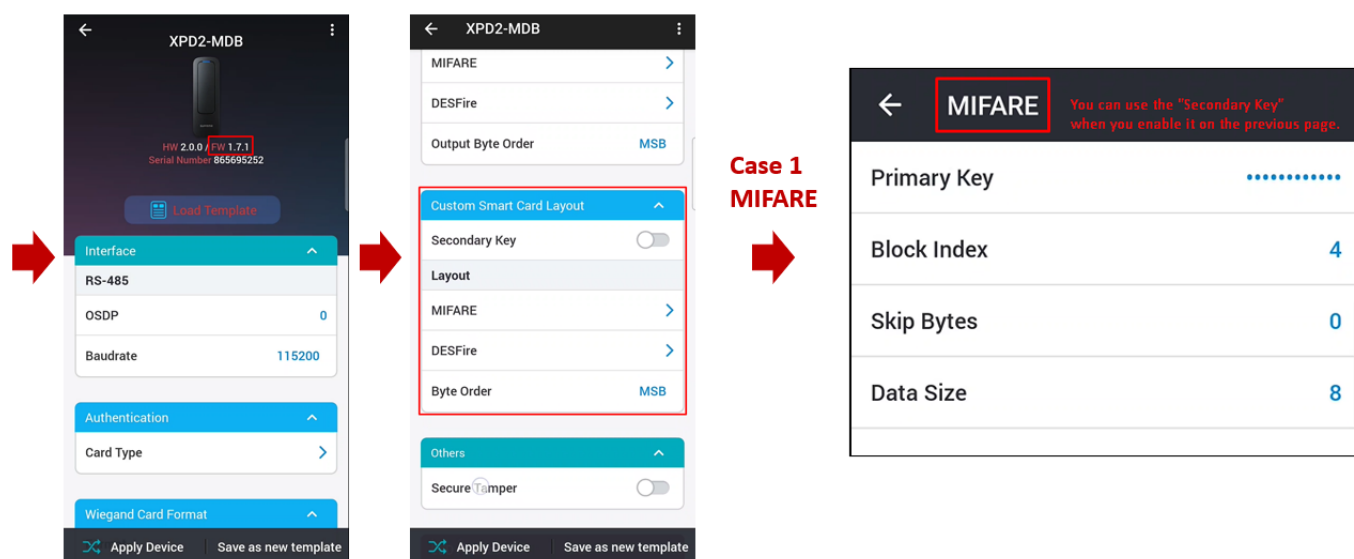
- Support only Binary data type.
- The customer needs to contact the Suprema team to receive consultation except for the above data type. Please refer to the contact info above.
- Can configure the Byte order: MSB or LSB.

- This is NOT the card with BIOMETRIC.
- The original Smart Card Layout function name has been changed to “Suprema Smart Card Layout.”

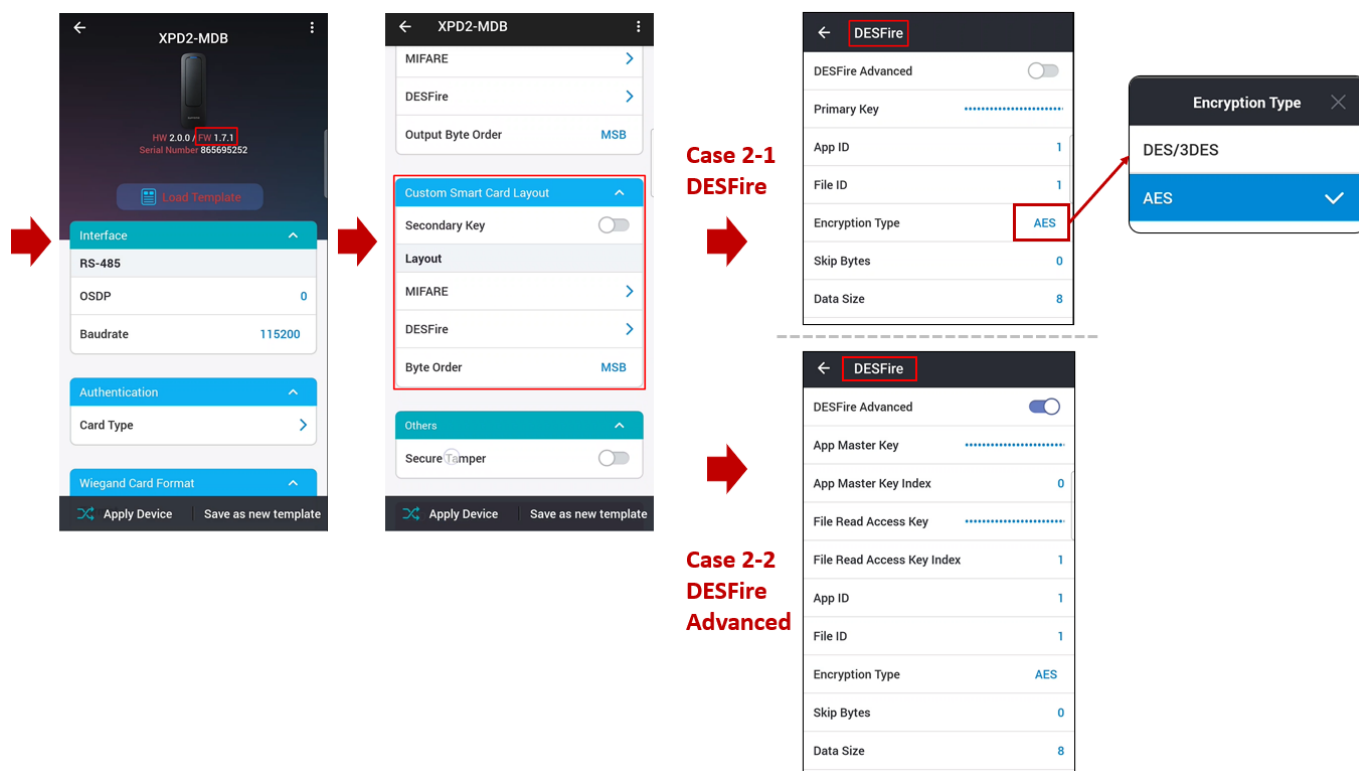
**Steps 1 - 4 are the same for both MIFARE and DESFire cases.**



## &lt;CASE 1. MIFARE&gt;



## &lt;CASE 2. DESFire &amp; DESFire Advanced&gt;



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