Table of Contents

1

How to Use Custom Smart Card Layout on Suprema Device Manager App	1
What is Suprema Device Manager?	1
What is the Custom Smart Card, and why do you need this feature?	1
Cases where Custom Smart Card Layout needs to be set up through Suprema Device Manager	
	1
Preparations	1
Precautions	2
Steps 1 - 4 are the same for both MIFARE and DESFire cases.	2
<case 1.="" mifare=""></case>	3
<case &="" 2.="" advanced="" desfire=""></case>	3

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?

1/3

- 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

Surpema 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.



<CASE 1. MIFARE>

← XPD2-M	IDB E	← XPD2-MDB	:				
		MIFARE	>			양 방송 방송 방송 방송 방송 방송	
		DESFire	>		← MIFARE		
HW 2.0.0 / FV Serial Number 86	V 1.7.1 65695252	Output Byte Order	Output Byte Order MSB				
		Custom Smart Card Lavout		MIFARE	Primary Key	••••••••	
E Load Ter	mplate	Secondary Key			Dia da la da se		
nterface	^	Layout			Block Index	4	
DSDP	0	MIFARE	>		Skip Bytes	0	
audrate	115200	DESFire	>				
		Byte Order	MSB		Data Size	8	
hentication	~						
ard Type	>	Others	^				
		Secure					
	~						
🗙 Apply Device 🛛 S	Save as new template	Apply Device Save a	s new template				

<CASE 2. DESFire & DESFIre Advanced>

← XPD2-MDE	B :	← XPD2-MDB	:		← DESFire				
		MIFARE	>		DESFire Advanced				
		DESFire	>		Primary Key			Encryption Type	
HW 2.0.0 / FW 1. Serial Number 8656	7.1 95252	Output Byte Order	MSB	Case 2-1	App ID	1	DES/3	DES	
	late	Custom Smart Card L	ayout 🔨	DESFire	File ID	1	AES		~
Interface	^	Secondary Key		▲	Encryption Type	AES			
RS-485		Layout			Skip Bytes	0			
OSDP	0	MIFARE	>		Data Size	8			
Baudrate	115200	DESFire	>						
		Byte Order	MSB		← DESFire				
Authentication	^				DESFire Advanced				
Card Type	>	Others	^		App Master Key				
Wiegand Card Format	^	Secure Tamper			App Master Key Index	0			
🔀 Apply Device Sav	ve as new template	Apply Device	Save as new template		File Read Access Key				
				Case 2-2	File Read Access Key In	dex 1			
				DESFire	App ID	1			
				Advanced	File ID	1			
					Encryption Type	AES			
					Skip Bytes	0			
					Data Size	8			

From: https://kb.supremainc.com/knowledge/ -
Permanent link: https://kb.supremainc.com/knowledge/doku.php?id=en:how_to_use_custom_smart_card_layout_on_suprema_device_manager_app
Last update: 2023/11/20 17:16
https://kb.supremainc.com/knowledge/