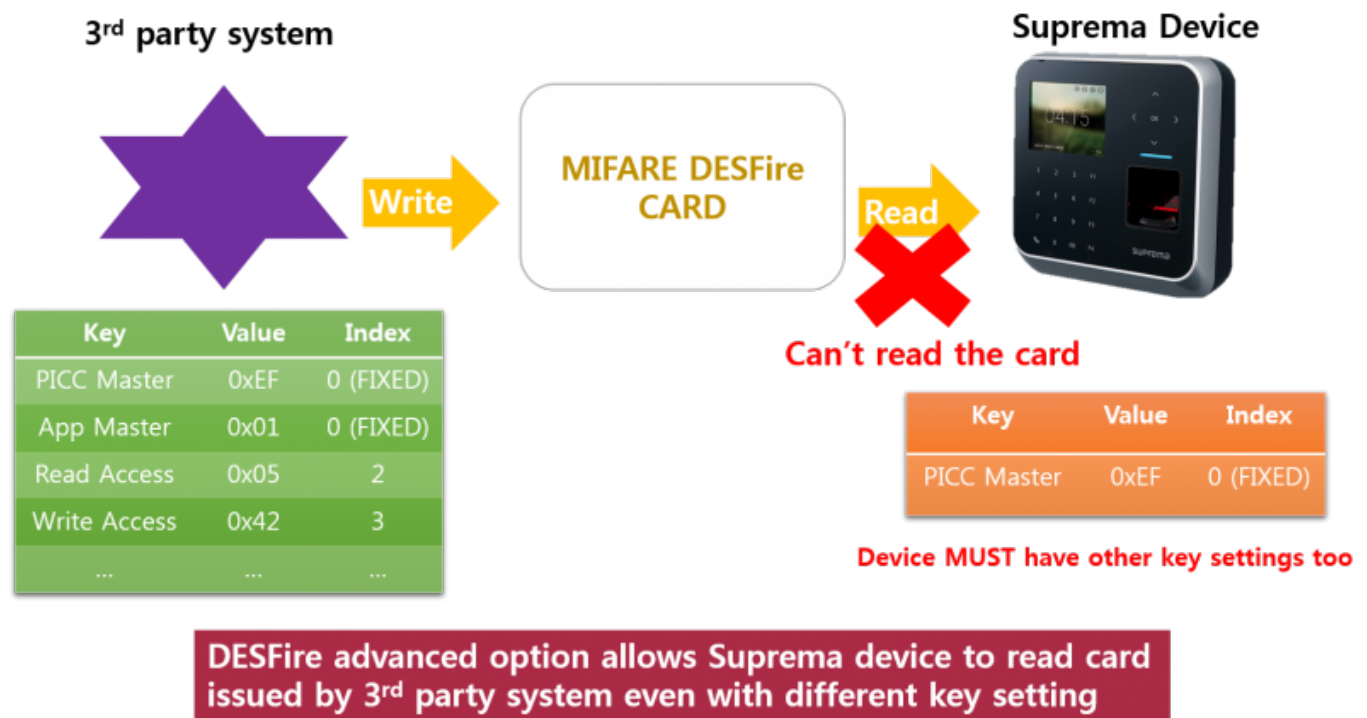


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How to enable DESFire EV1 Advanced Option

Some users want to read a DESFire card issued by 3rd party program on the Suprema device. If the card is issued with each key set to a different value than the default, then all key settings should also be done on the Suprema device.



Before BioStar 2.7.0, only PICC Master key can be set but on BioStar 2.7.0 and higher, you can set App master, File read access File write access key and index. Also, Encryption type AES is added.

Compatible firmware

- BioStation 2: 1.7.0 or later
- BioStation A2: 1.6.0 or later
- BioStation L2: 1.4.0 or later
- BioEntry W2: 1.3.0 or later
- FaceStation 2: 1.2.0 or later
- CoreStation: 1.2.0 or later
- BioEntry P2: 1.2.0 or later
- BioLite N2: 1.1.0 or later

- Entry devices with firmware version V2.x are not supported.

From BioStar 2.7.0, you can configure detailed key settings by enabling DESFire advanced option.

Caution: please note that when the Advanced option is enabled, mobile cards can not be supported. Encryption type AES is also added.

The screenshot shows the DESFire configuration interface. At the top, there are tabs for MIFARE, ICLASS, DESFire, and ICLASS Seos. The DESFire tab is selected. Below the tabs, there is a section for DESFire Advanced, which is currently set to 'Disable'. A red box highlights this section, and a red arrow points down to the next state. In the next state, DESFire Advanced is set to 'Enabled'. A red box highlights the 'Encryption Type' dropdown menu, which now includes 'AES' as an option. A red text overlay says 'Mobile card is NOT supported' and 'AES is added'. Other fields like App Master Key, File Read Access Key, File Write Access Key, App ID, File ID, Template Count, and Template Size are also visible.

- Only one encryption type can be applied to the entire key.

However, the problem is you don't see option for PICC key with the option enabled. To set the PICC Key, disable the DESFire Advanced option, set PICC Key by Primary/Secondary setting to the device first.

The screenshot shows the DESFire configuration interface with DESFire Advanced set to 'Disable'. A red box highlights the Primary Key and Secondary Key sections. The Primary Key section has a checkbox and buttons for 'New Primary Key' and 'Confirm New Primary Key'. The Secondary Key section has a checkbox and buttons for 'New Secondary Key' and 'Confirm New Secondary Key'. Below these, there are fields for App ID, File ID, Encryption Type (set to DES/3DES), Template Count, and Template Size. A red text overlay on the right says 'The key values made with 2.5v or before need to be converted to HEX through the below before applying.' and 'Converting Result :'. There is a 'Convert to HEX' button and a 'Converting Result' field.

Which means, to configure DESFire advanced option with PICC key having a value other than default, you need to set twice with disabling the option and disabling the option again.

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