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#### System Configuration, BioStar 2, Smart, Card

## How to issue smart cards

The BioStar 2 system is designed to authenticate users matching the template stored inside the device with the scanned fingerprint template. However, there are needs for securing personal information including fingerprint templates. In BioStar 2, the administrator can use a concept called smart card which will allow issuing cards to store users' fingerprint templates inside a card and carry it for authentication. This will lead to a more secure environment since the devices don't have to store the user information inside the device.

To issue a smart card, such as Access on Card and Secure Credential card, you will have to configure the smart card format first and apply it to the device.

Access on Card doesn't need any user information transferred to the device. Secure Credential Card needs basic user information stored inside the device. Secure Credential Card is used when only to store the fingerprint template inside the card.

To delete the user fingerprint template information from BioStar 2 DB after writing Access On Card, enable [Delete personal & credential data when issuing an AoC]. Direction>Settings>Server> [Delete personal & credential data when issuing an AoC]

In addition, please disable Automatic User Synchronization. If not, the BioStar 2 server synchronizes the user information to the connected devices automatically.

To understand the benefits and difference between the two smart cards, refer to the following FAQ

#### Configure a smart card format

1) Go to Setting  $\rightarrow$  Card Format  $\rightarrow$  Add Smart Card.

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BioStar	• 2 🛞 Setting (i) About	(?) Help
DASH BOARD	ADD WIEGAND	Smart Card
А U SER	✓ Wiegand	
DEVICE	Smart Card	

2) Enter the name of the smart card format. There are 4 types of cards supported for the AoC card and the SC card, Mifare, iClass, DESFire, and iClass Seos (added in BioStar 2.6). Select the card that will be used for the smart card.

← Add New Smart Ca	ard		
Information			
• Name	Mifare	Secondary Key	Inactive
MIFARE ICLASS	DESFire iCLASS Seos		
- Primary Key 💟	abcd12345678 Confirm New Primary Key		
			The key values made with 2.5v or before need to be converted to HEX through the below before applying.
Secondary Key	New Secondary Key Confirm New Secondary Key		Convert to HEX Converting Result : 3535353535353535353535353535353535353
Start Block Index	4 ×		

You can use hexadecimal Keys starting in BioStar 2.6. Refer to the How to Configure Hexadecimal Card Key

DESFire cards are only supported if the encryption type is DES/3DES.

Refer to the FAQ article to check which devices/firmware support SEOS cards.

3) You can select to use up to 2 card keys for the card. To use the Secondary Key, you will have to activate it first. Check the checkbox if you need to use the key.

		It a key, configure the primary key and turn
on the secondary key but	leave the secondary key i	Diank.
Name	Mifare Layout	Secondary Key     Active
MIFARE ICLASS	DESFire / Mobile iCLASS Seos	
- Primary Key 💟	••••••	
	•••••	
		The key values made with 2.5v or before need to be converted to HEX through the below before applying.
Secondary Key	New Secondary Key	Convert to HEX
Start Block Index	Confirm New Secondary Key	Converting Result :
Information		
• Name Tes	it	• Secondary Key C Active
MIFARE ICLASS	DESFire	
• Primary Key 🗹 🛛	•	
• Secondary Key 🗹 🚥	•••	
Start Block Index	4	

4) You can configure how many templates you want to store inside the card and which block to start on storing the information. You can also configure the template size, if you don't have enough space on the card to fit the template.

Start Block Index 8	
Layout	
Template Count     2	Template Size     300     300

### Applying the configured smart card format to the devices

To make the device read the smart cards, you will have to set the device to have the smart card format.

#### 1) Go to Device $\rightarrow$ Select the device $\rightarrow$ Authentication Tab $\rightarrow$ Card ID Format.

2) You will find the smart card format layout menu. Select the layout that you want to apply.

	Card ID Format		
	• Format Type	Normal	
	• Layout	None	•
$\geq$			
Adv	vanced		

#### Formatting a card

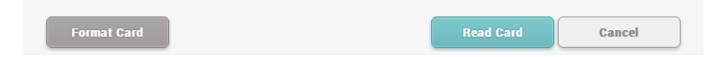
The card needs to be formatted before being used as a smart card. The card information stored in the blocks will be deleted. 1) Go to **User**  $\rightarrow$  **Select a user**  $\rightarrow$  **+ Card**.

Credential	
• PIN	
• Auth Mode	Device Default
• Credential	+ Fingerprint 👘 + Card 📼
• 1:1 Security Level	Device Default

2) Select Read Card from the Card Type menu.

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Enroll Card			×
Card Type     Read Ca     Card Layout     Format	ard 💌	<ul> <li>Device</li> <li>Smart Card Type</li> </ul>	None 💌
Information     Card ID		• PIN	
Access Group		• Period	
• Fingerprint	1st Finger	2st Finger	
	Duress	Duress	



3) Select the device to format the card.

4) Click **Format Card** and place the card on the device. If the format is successfully done, you will hear a sound from the device.

### Issuing a smart card

1) From the same screen, please change the **Card Type** to **Enroll Smart Card**.

Enroll Card					×
<ul> <li>Card Type</li> <li>Card Layout Format</li> </ul>	Enroll Smar	t Card 💌	Device     Smart Card     Type	None Secure Credential Card	•
<ul> <li>Informatio</li> <li>Card ID</li> </ul>	2		• PIN		
• Fingerprin	ť	1st Finger			

Write Smart Card Cancel	4	
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2) Select the device to enroll the smart card.

3) Select the smart card type. Access on Card and Secure Credential Card is supported.

3-1) The Access on Card will use the user ID same for the secure ID.

3-2) The Secure Credential Card's secure ID can be modified.

4) Select the fingerprint template to be written on the card. For example, click the **1st** button to select the 1st template to be written on the card. The template will get highlighted. A fingerprint must be added first to use the template.

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Enroll Card			×
Card Type     Enroll Smart Card	• Device	None	•
• Card Layout Format	• Smart Card Type	Secure Credential Card	•
Information			
Card ID     2	• PIN		
<ul> <li>Fingerprint</li> <li>1st</li> <li>1st Finger</li> <li>0</li> <li0< li=""> <li>0</li> <li>0</li> <li0< li=""> <li>0<th></th><th></th><th></th></li></li0<></li0<></ul>			

Write Smart Card Cancel	
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5) Click the Write Smart Card button.

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