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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 to issue cards to store users' fingerprint templates inside a card and carry it for the authentication. This will lead to a more secure environment since the devices doesn't have to store the user information inside the device.

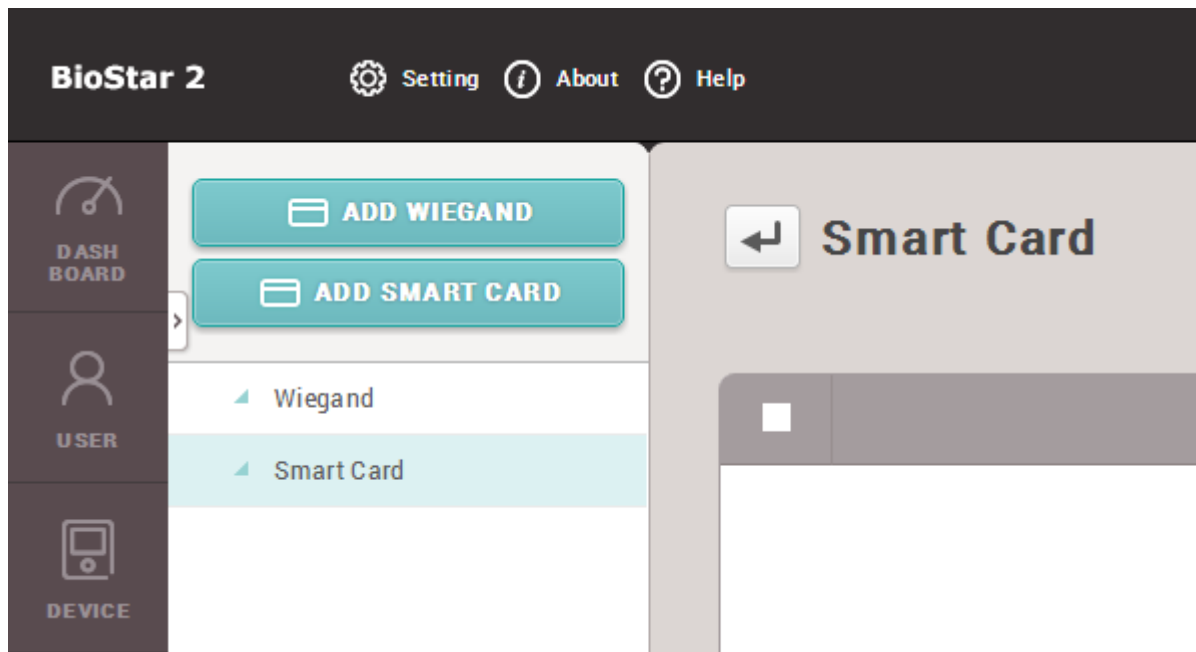
To issue a smart card, such as Access on Card and Secure Credential card, you will have to configure the smart card format first, and apply it to the device.

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 understand the benefits and difference between the two smart cards, refer to the following [FAQ](#)

Configure a smart card format

1) Go to **Setting** → **Card Format** → **Add Smart Card**.



2) Enter the name of the smart card format. There are 3 types of cards supported for the AoC card and the SC card, Mifare, iClass, and DESFire. Select the card that will be used for the smart card.

The screenshot shows the 'Add New Smart Card' form. It has a title bar with a back arrow and the text 'Add New Smart Card'. Below the title bar is a section labeled 'Information'. Inside this section, there are two rows of fields. The first row has 'Name' with a text input field containing 'Test' and 'Secondary Key' with a toggle switch labeled 'Inactive'. Below this, there are three tabs: 'MIFARE' (selected), 'iCLASS', and 'DESFire'. Under the 'MIFARE' tab, there are three sections. The first section is 'Primary Key' with a checkbox, a 'New Primary Key' button, and a 'Confirm New Primary Key' button. The second section is 'Secondary Key' with a checkbox, a 'New Secondary Key' button, and a 'Confirm New Secondary Key' button. The third section is 'Start Block Index' with a text input field containing '4' and up/down arrows. Below the 'Information' section is a section labeled 'Layout'. It contains two rows of fields. The first row has 'Template Count' with a text input field containing '2' and up/down arrows. The second row has 'Template Size' with a text input field containing '300' and up/down arrows.

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

3) You can select to use up to 2 site 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.

Information

• Name

Test

• Secondary Key

☒ 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

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** → **Select the device** → **Authentication Tab** → **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

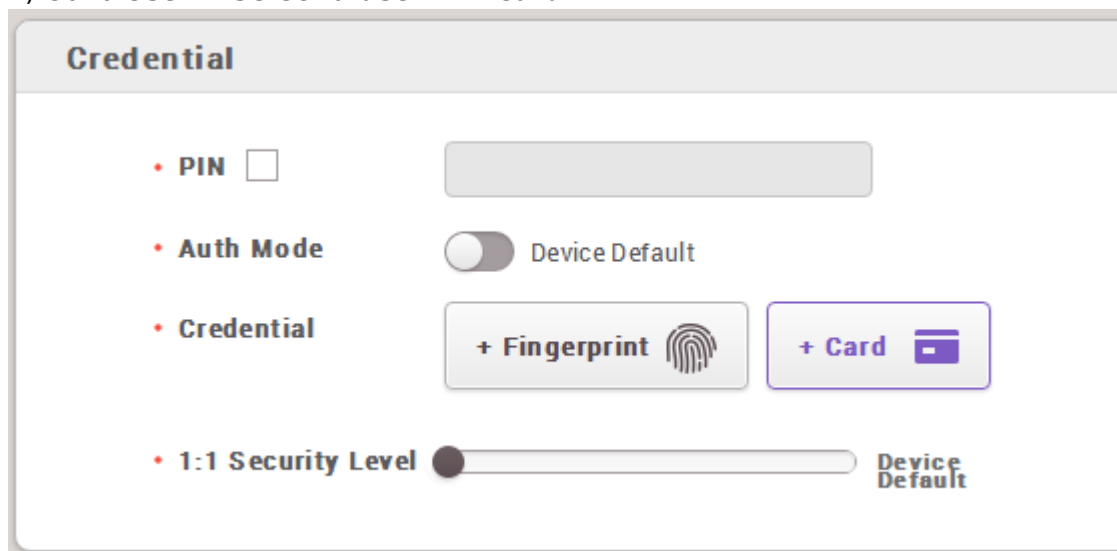
None

Advanced

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.

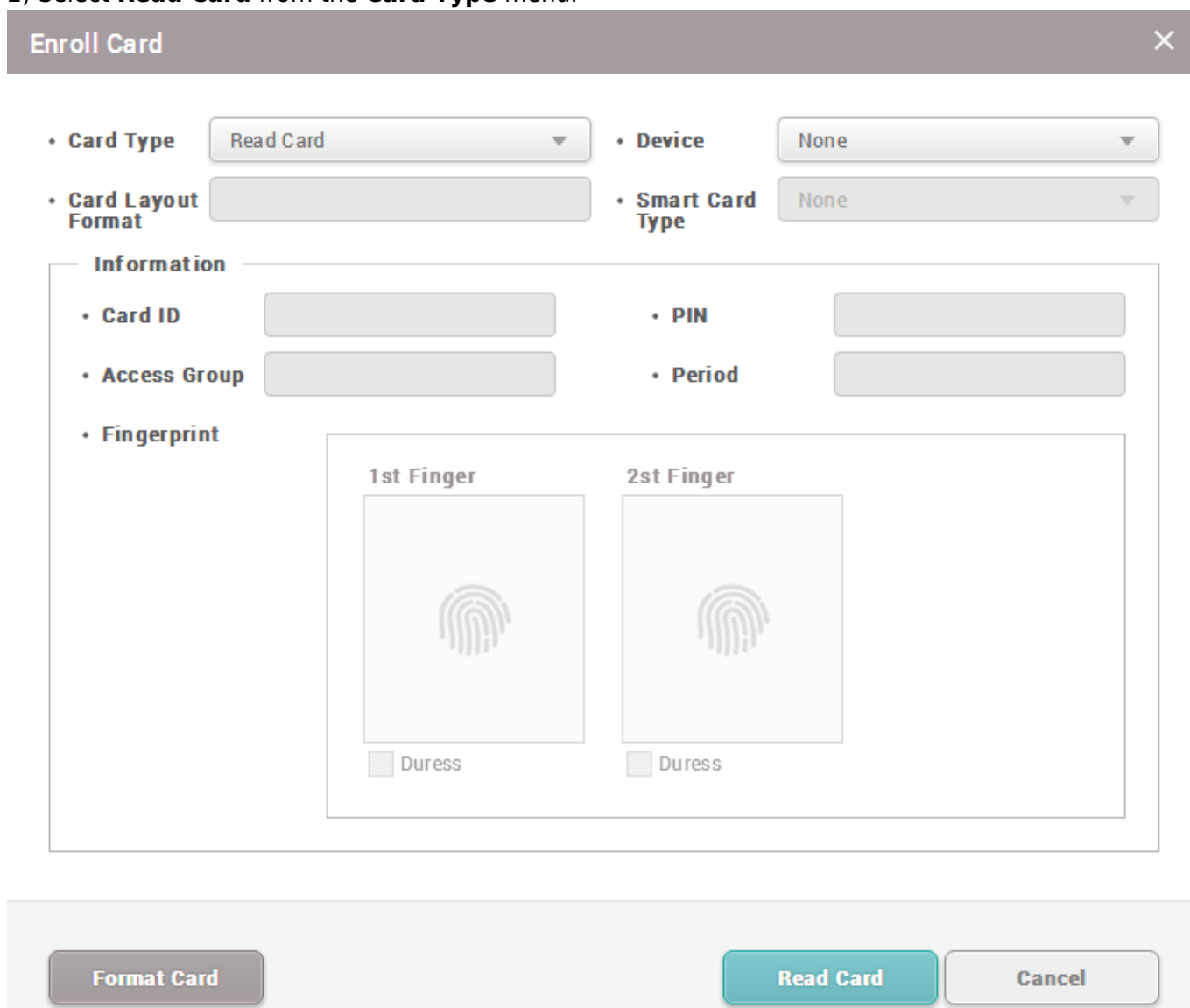
1) Go to **User** → **Select a user** → **+ Card**.



The 'Credential' window contains the following settings:

- PIN**: A checkbox and an empty text input field.
- Auth Mode**: A toggle switch currently set to 'Device Default'.
- Credential**: Two buttons, '+ Fingerprint' (with a fingerprint icon) and '+ Card' (with a card icon). The '+ Card' button is highlighted with a purple border.
- 1:1 Security Level**: A slider bar set to 'Device Default'.

2) Select **Read Card** from the **Card Type** menu.



The 'Enroll Card' window includes the following sections and controls:

- Card Type**: A dropdown menu with 'Read Card' selected.
- Device**: A dropdown menu with 'None' selected.
- Card Layout Format**: An empty text input field.
- Smart Card Type**: A dropdown menu with 'None' selected.
- Information** section:
 - Card ID**: An empty text input field.
 - Access Group**: An empty text input field.
 - Fingerprint**: A section containing two fingerprint capture areas labeled '1st Finger' and '2st Finger'. Each area has a 'Duress' checkbox below it.
 - PIN**: An empty text input field.
 - Period**: An empty text input field.

At the bottom of the window are three buttons: 'Format Card' (grey), 'Read Card' (teal), and 'Cancel' (grey).

3) Select the device to format the card.

4) Click **Format Card** and place the card on the device. If the format is successful 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

• Card Type

Enroll Smart Card

• Card Layout Format

• Device

None

• Smart Card Type

Secure Credential Card

Information

• Card ID

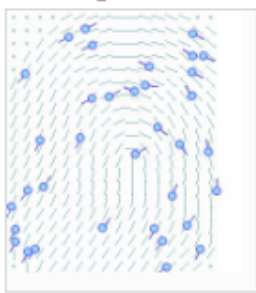
2

• PIN

• Fingerprint

1st

1st Finger



☐ Duress

Write Smart Card

Cancel

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.

Enroll Card ✕

• **Card Type**

Enroll Smart Card ▼

• **Card Layout Format**

• **Device**

None ▼

• **Smart Card Type**

Secure Credential Card ▼

Information

• **Card ID**

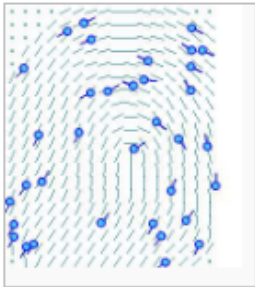
2

• **PIN**

• **Fingerprint**

1st

1st Finger



☐ Duress

Write Smart Card

Cancel

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

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