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# Added the Use QR as Card Option

Affect Products & Versions	
BioStar 2	BioStar v2.8.16 or above
Device & Firmware	X-Station 2 v1.2.0 (* check details below)

- X-Station 2 with QR hardware sensor models (XS2-QAPB, XS2-QDPB) support in default after upgrading firmware.
- Other X-Station 2 models (XS2-DPB, XS2-ODPB, XS2-APB, XS2-OAPB) needs to activate license for Camera QR feature. (Contact supremainc.com)

In the previous BioStar 2, when a customer using a CSN card tried to authenticate a user through a QR code with the same value as the CSN, customers could not use it due to the difference in authentication logic between QR and CSN. Suprema allows authentication with a QR code of the same data as the issued CSN card or Wiegand card to reflect the market requirements.

- To use this function, BioStar 2 and X-Station 2 firmware versions must match.

[Device > X-Station 2 detail page > Authentication > QR/Barcode]
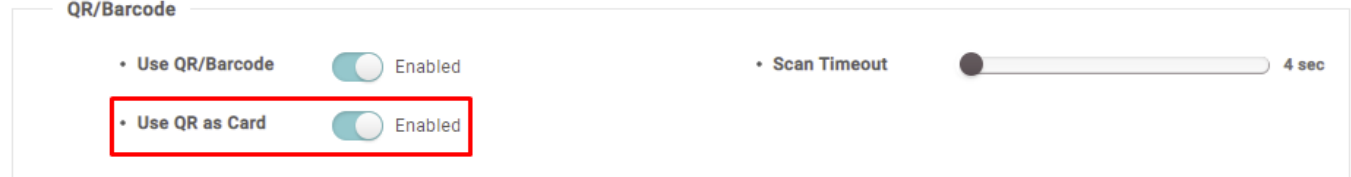
Background

- This feature is useful who is looking for Integration with Visitor Management System + QR code. With 3rd party Visitor Management System, you can generate the QR code for Visitors. However, this data is not available to use with Suprema system.
- In the previous BioStar 2 and X-Station 2 FW, you could not synchronize this data to Suprema X-Station 2 because X-Station 2 QR can only use BioStar 2 QR or ASCII QR data type.
- From 2.8.16, you can use the QR code in decimal as X-Station 2 User credential.

How it works

- Suprema is offering BioStar 2 API - a server-level RESTful API - with which you can communciate with a BioStar 2 server. The API allows you to update BioStar 2 User from the server with the decimal data of QR code in the CSN card information of BioStar 2 user. Once you get the QR raw data from the 3rd party Visitor Management system, you can integrate it with BioStar 2 server.

Feature notice

1. 'Use QR as Card' is available only when 'Use QR/Barcode' is Enabled.

2. This function is not supported for BioStar 2 QR.

3. This function is not supported for Smart Card.

Sample user scenario

1. A user (user ID 2, Tom) has been assigned a CSN card.

Type	Card Data Format	Summary	
CSN	-	ID: 1251686652985216	Block 🗑

2. Prepare the X-Station 2 QR model device.

- For comparison, we prepared one device supported by the [Use QR as Card] function and one not supported.

☐	547837141	X-Station 2 547837141 (192.168.13.117)	All Devices	[Use QR as Card] not supported X-Station 2
☐	547837219	X-Station 2 547837219 (192.168.13.187)	All Devices	[Use QR as Card] supported X-Station 2

3. User Tom taps the CSN card (RF card) he has on the X-Station 2. At this time, both X-Station 2 return 'Access Granted' for user Tom.

Date	Door	Elevator	Device ID	Device	User	Zone	Event
2022/04/23 11:42:48	[Use QR as Card] supported ⟶		547837219	X-Station 2 547...	2(Tom)		1:1 authentication succeeded (Card)
2022/04/23 11:42:47	[Use QR as Card] not supported ⟶		547837141	X-Station 2 547...	2(Tom)		1:1 authentication succeeded (Card)

4. Generates a QR code with the same value as the CSN that Tom has.

QR type
Free Text
QR value
1251686652985216
QR sample

5. User Tom tries to authenticate on X-Station 2 with the above QR code. Only enabled devices with the [Use QR as Card] function will return 'Access Granted.'

Date	Door	Elevator	Device ID	Device	User	Zone	Event
2022/04/23 11:48:35	[Use QR as Card] supported ➝		547837219	X-Station 2 547...	2(Tom)		1:1 authentication succeeded (Card)
2022/04/23 11:48:05	[Use QR as Card] not supported ➝		547837141	X-Station 2 547...	1251686652985216(-)		1:1 authentication failed (Card)

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https://kb.supremainc.com/knowledge/ -

Permanent link:
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Last update: **2023/01/16 14:09**