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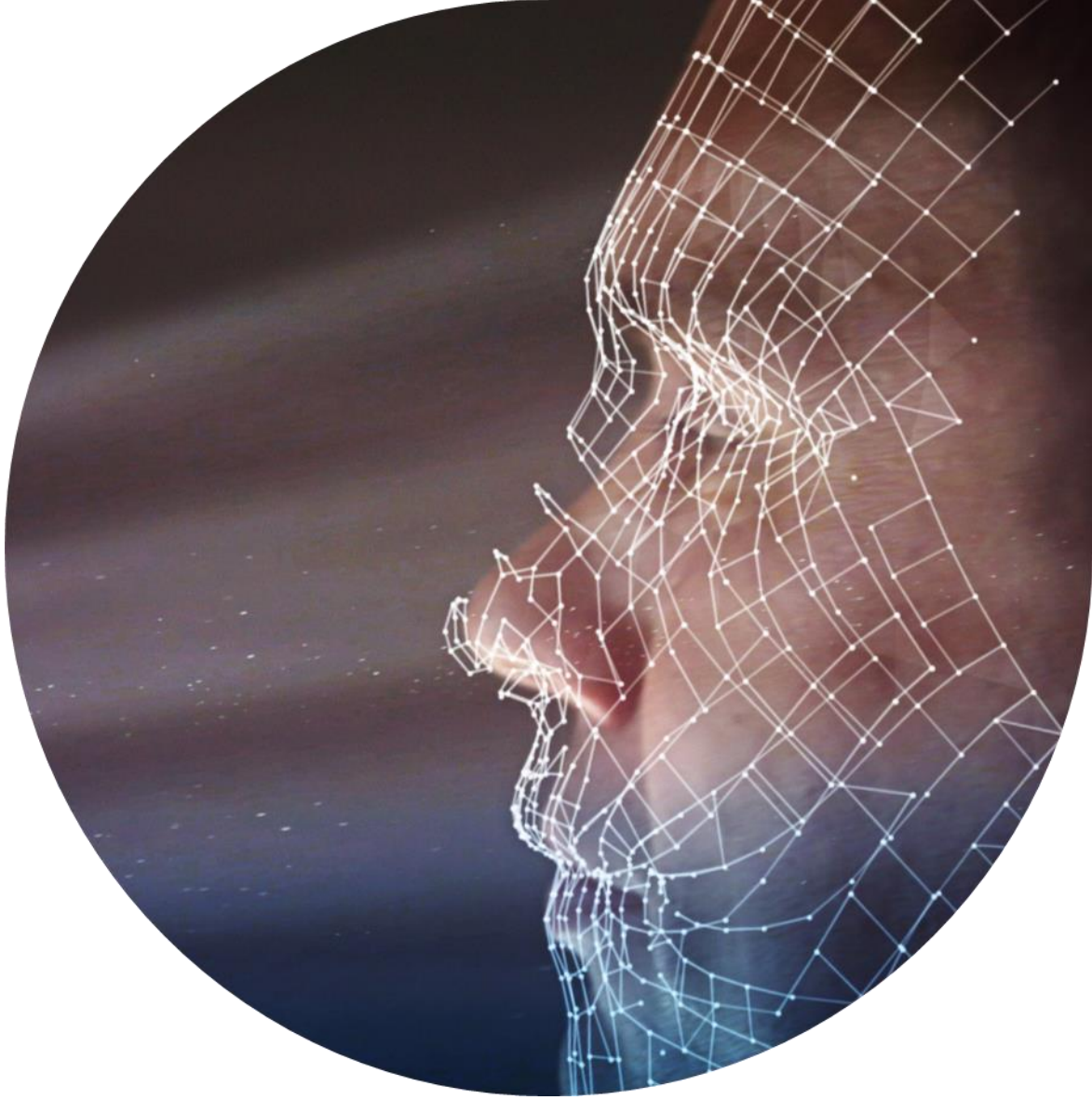

Suprema Webinar
BioStar 2 New Features
2.8.15 – 2.8.17

Speaker

Laney Lee
Technical Consulting Engineer | Suprema

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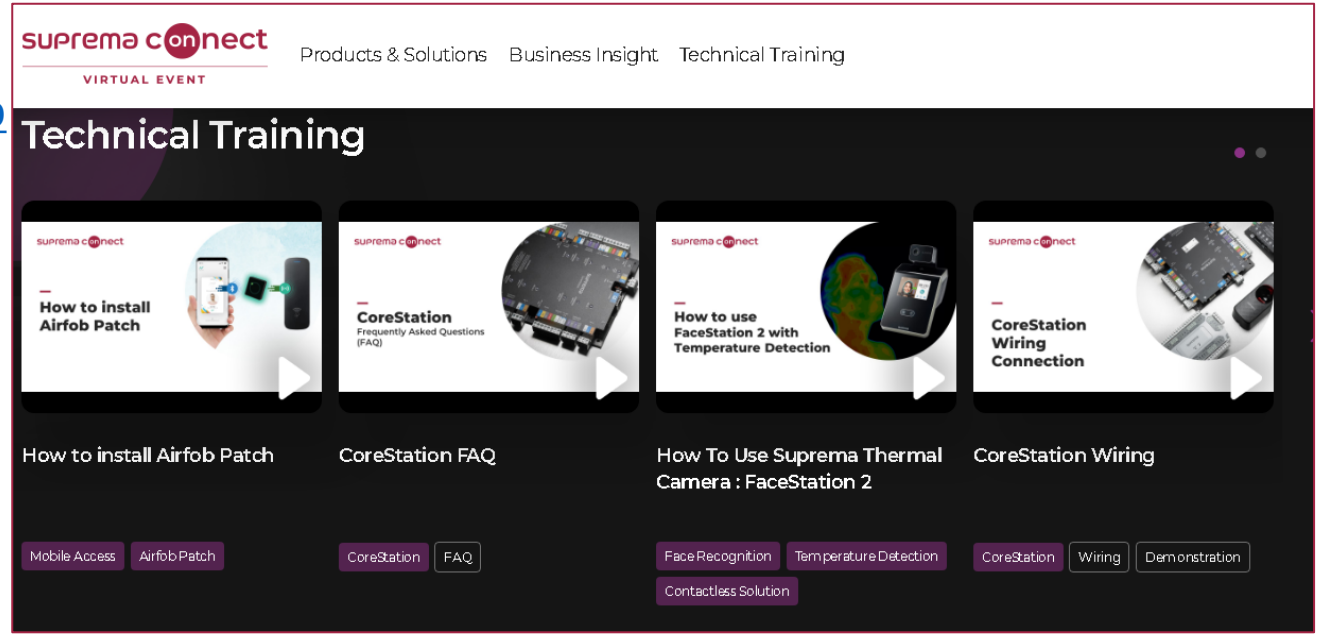
How can you find Webinar Contents?

1) Suprema Connect Website

- ✓ We will post the recorded video to the site.
- ✓ https://www.supremainc.com/connect/index.asp
- ✓ Please google Suprema Connect.



2) Suprema Technical Support Site

- ✓ You can find the information with Q&A list on the website below.
- ✓ Please search Suprema Webinar in the support page, or simply google it.
- ✓ https://support.supremainc.com

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01

BioStar 2.8.15

Log4j2 v2.17.1

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BioStar 2.8.15

Improved security vulnerabilities

- Applied Log4j 2 v2.17.1

Improved Automatic User Synchronization performance

- Improved the synchronization speed when adding or modifying doors while using ‘Specific Devices’ Automatic User Synchronization.
- Improved 'Delete Data & Sync Device' performance when using ‘Specific Devices’ Automatic User Synchronization.
  - Fixed the problem that the synchronization performance deteriorated by retrieving all user data from all connected devices when 'Delete Data & Sync Device' was performed.

Adjusted the number of threads for Thrift communication between C server and Java server

- Improved API request processing performance by reducing the number of threads used in ‘Specific Devices’ Automatic User Synchronization.
- Improved to change to 10 if it was less than the minimum value (10) by checking the number of BioStar 2 Thrift threads when running the server.

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02

BioStar 2.8.16

BioStar 2 Access Control Improvements

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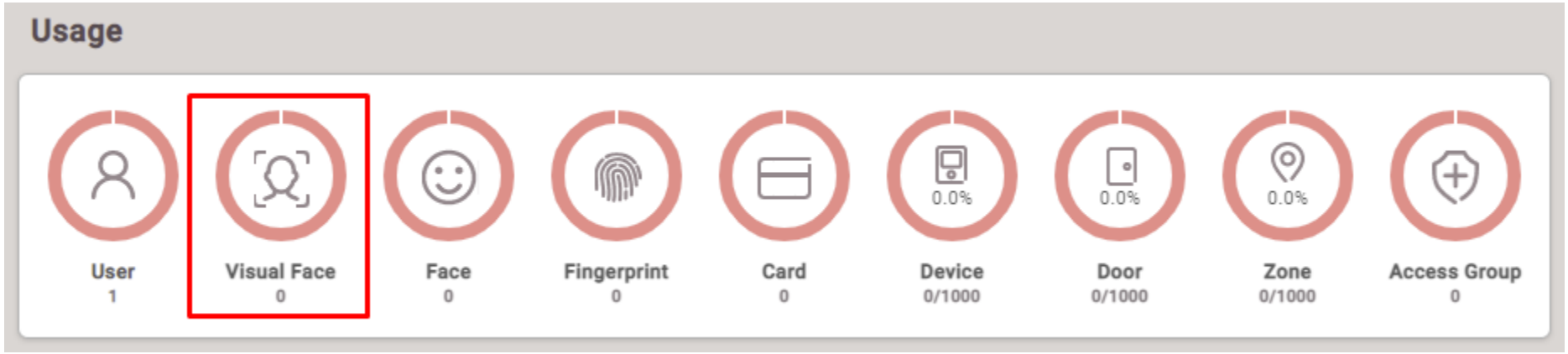
BioStar 2.8.16

Added visual face to the dashboard



VISUAL FACE	FACE
FaceStation F2	FaceStation 2 & FaceLite

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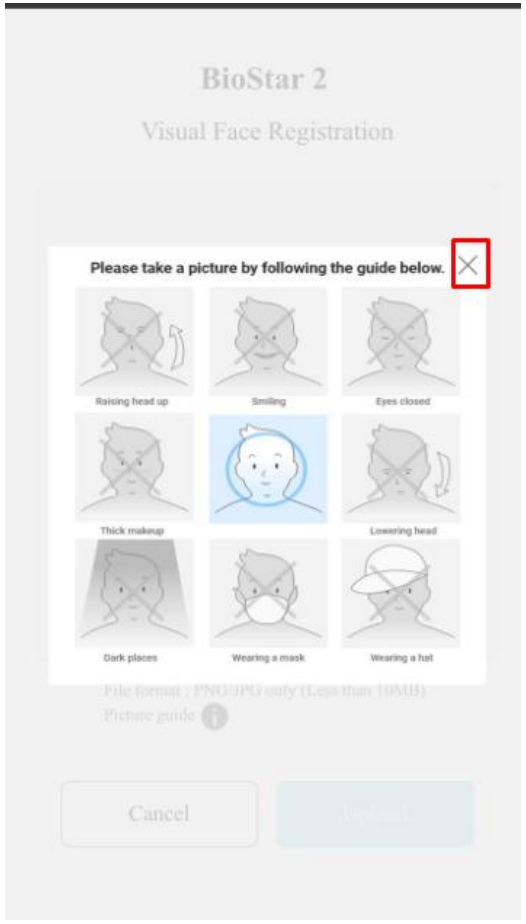
Improved the user interface of Visual Face Mobile Enrollment page

Improved (V2.8.16 -)	Previous (- V2.8.15)



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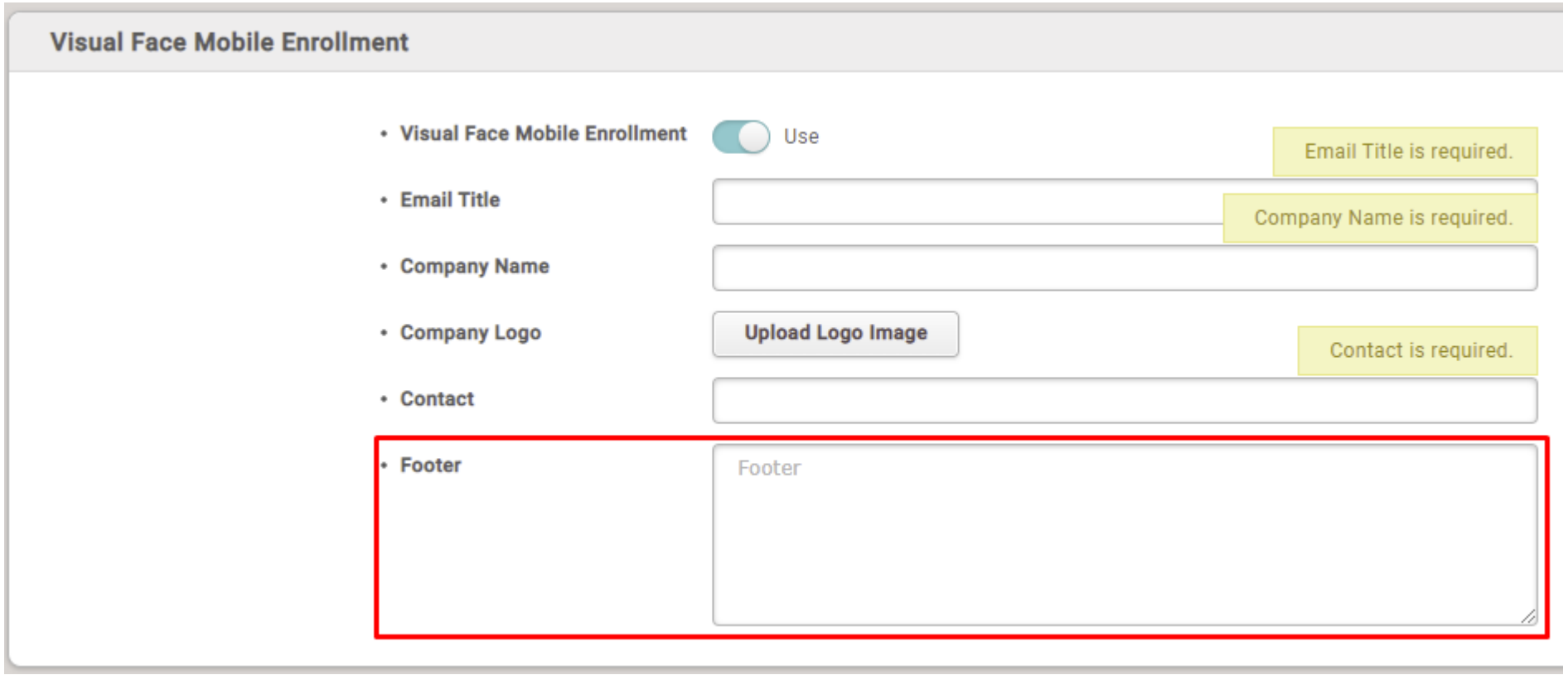
Added footer to email sending the visual face mobile enrollment link



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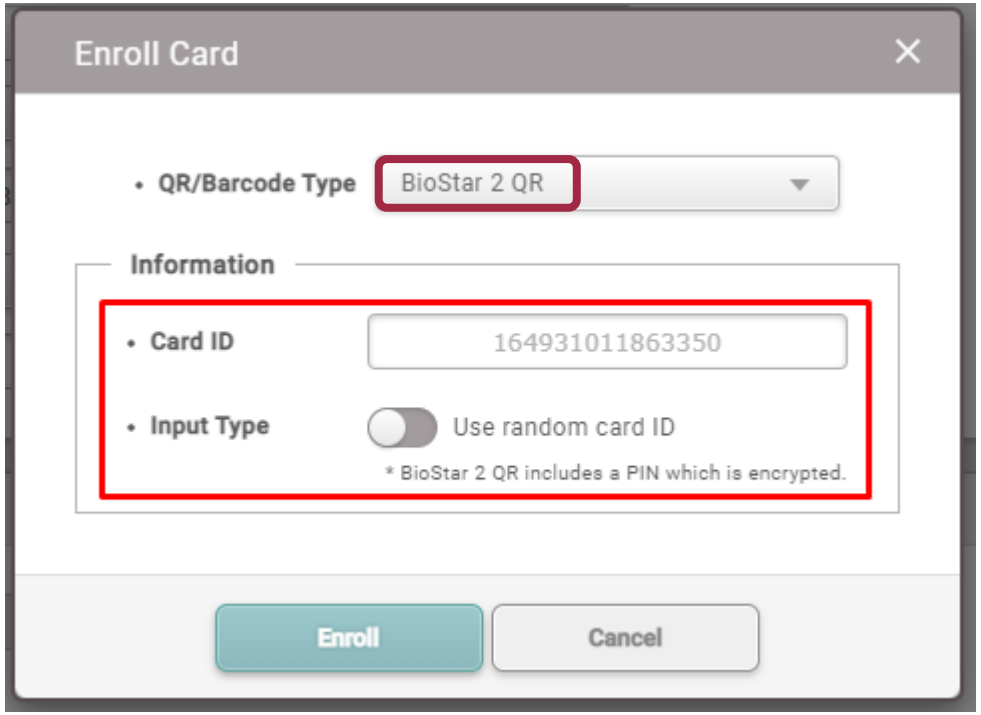
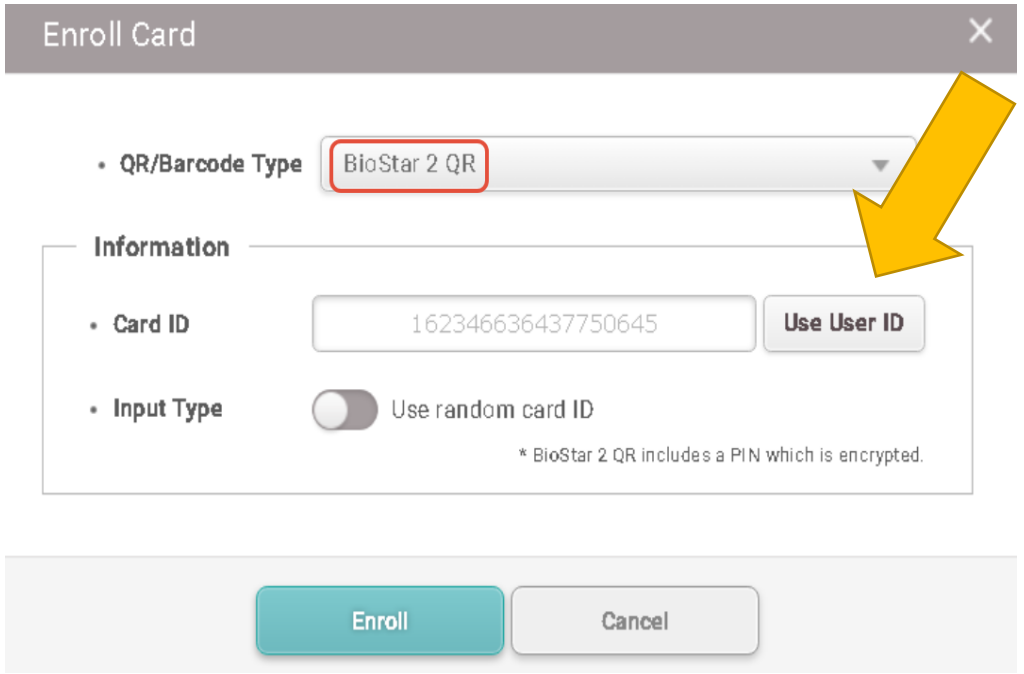
Deleted the option to use user ID as card ID from Enroll QR/Barcode page

Improved (V2.8.16 -)



Previous (- V2.8.15)



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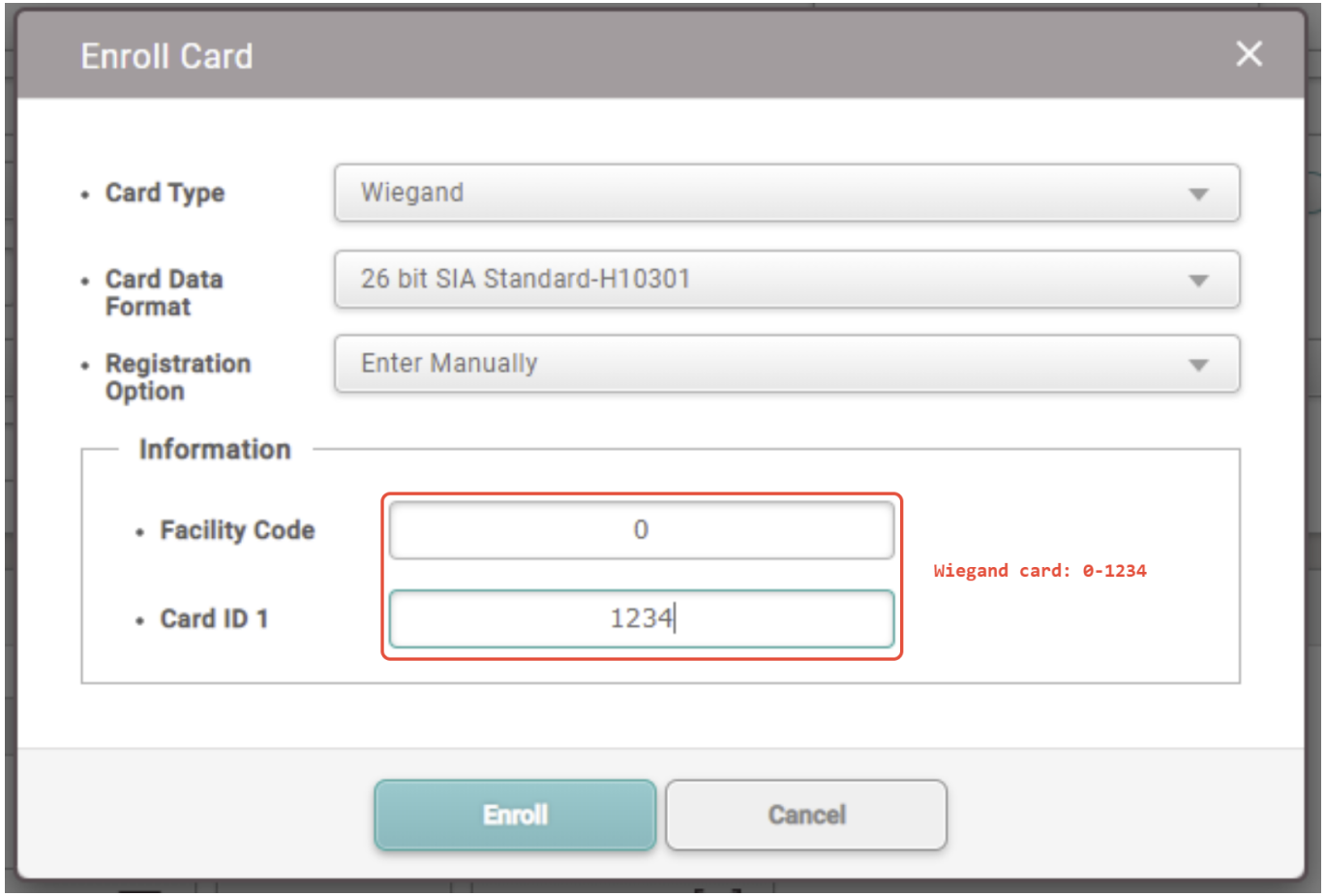
Fixed constraint that Wiegand card ID cannot start with 0 (1)

- Allowed 0 to be entered in the first field.
- Imposed restriction that all four data fields cannot consist only of zeros.



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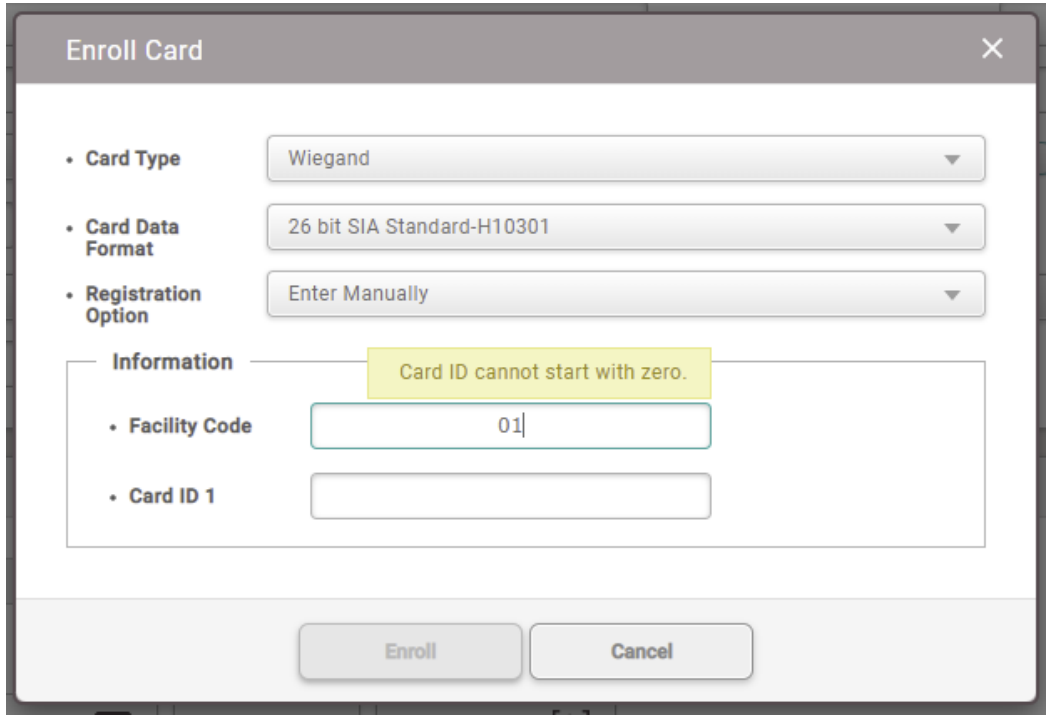
Fixed constraint that Wiegand card ID cannot start with 0 (2)

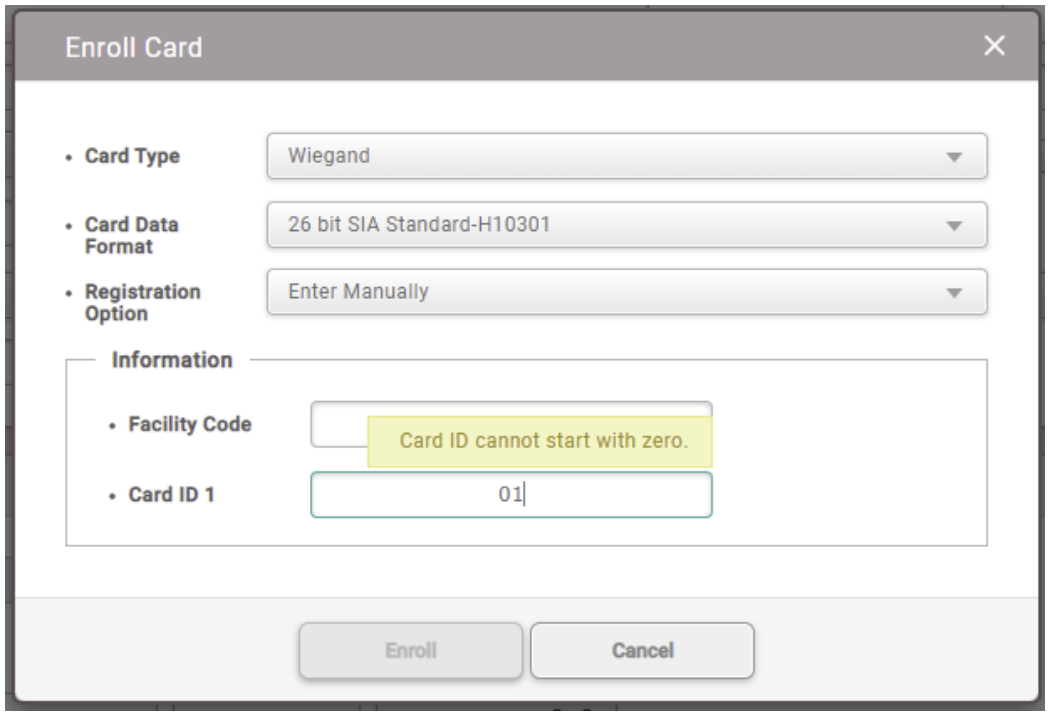
NOTICE

- This improvement does NOT refer to the following cases.

Case 1 - Facility Code is 0XXXX



Case 2 - Card ID is 0XXXX



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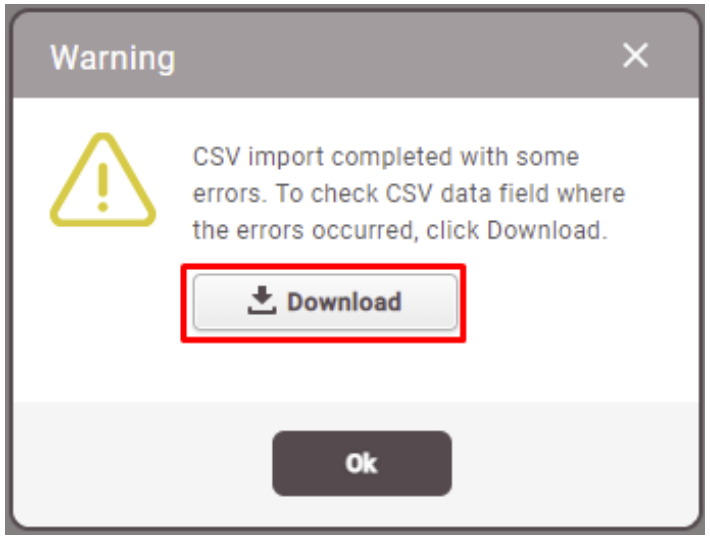
Added Error_Description column to user list file (User_Import_Error) that failed CSV import

- **Sample Case - User's expired date exceeds BioStar 2 specification**

User_20220418T152240.csv

```
1  user_id,name,department,user_title,phone,email,user_group,start_datetime,expiry_datetime
2  3,CSV Import Test,,,,,All Users,2001-01-01 00:00:00,2050-12-31 23:59:00
3
```



Specification
2030-12-31
23:59:59

user_id	name	departme	user_title	phone	email	user_grou	start_datetime	expiry_datetime	Error_Description
3	CSV Import Test					All Users	1/1/2001 0:00	12/31/2050 23:59	Date/time does not match format.

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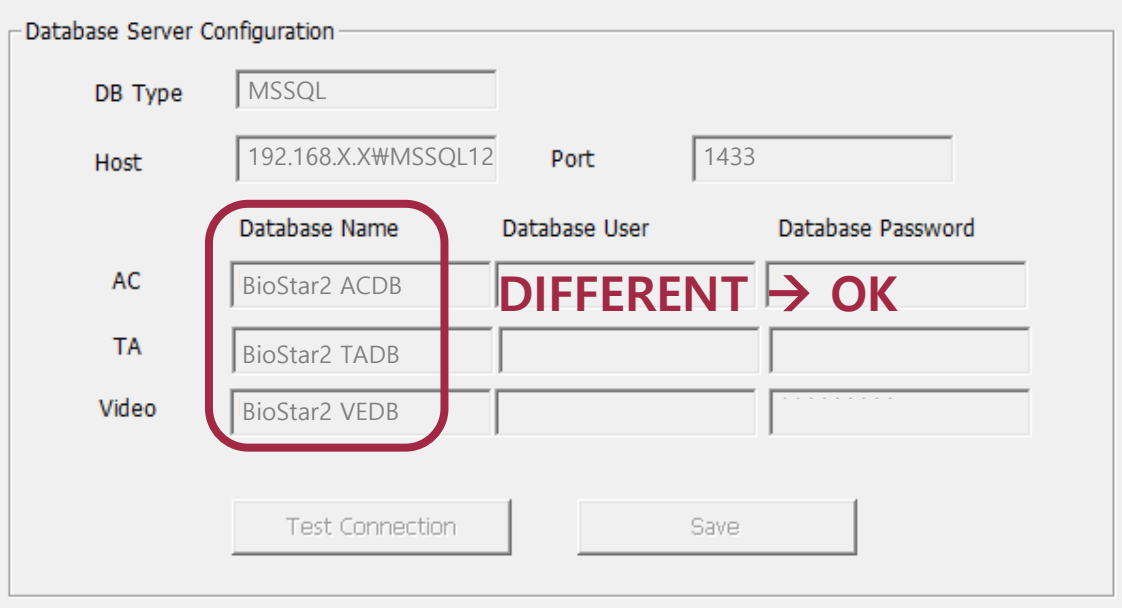
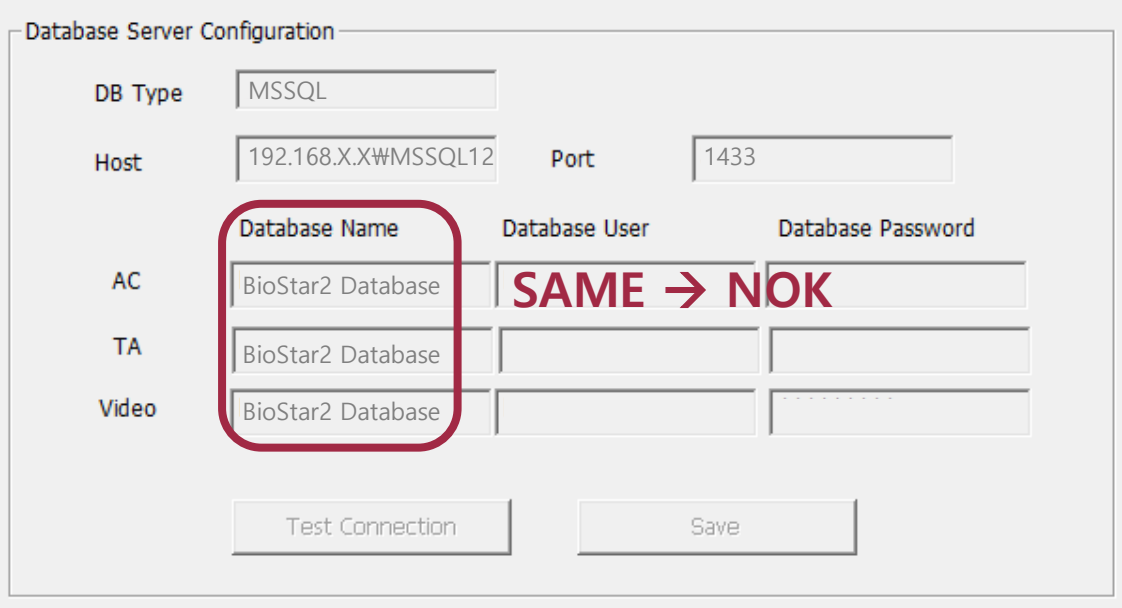
Added logic to check that AC, TA, VE services do not use the same DB name during custom installation

NOTICE

- **If you used the same name for AC, TA, and VE DB in BioStar 2 earlier, you CANNOT upgrade to version 2.8.16 or later.**

CAN	CANNOT





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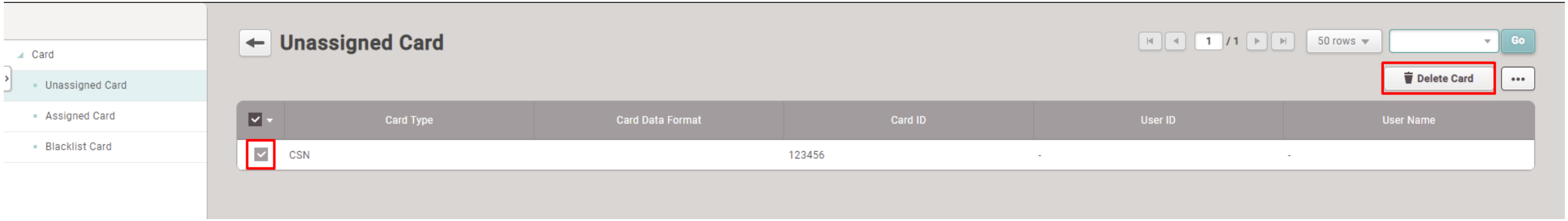
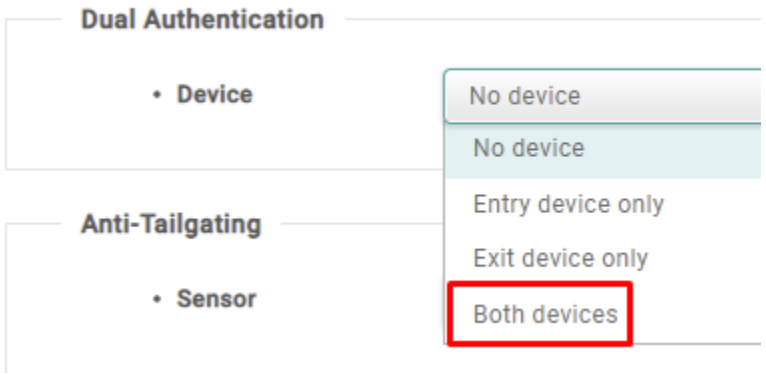
BioStar 2.8.16

Added option to delete unassigned card



Added 'Both Devices' option to dual authentication setting to door



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BioStar 2.8.16

BioStar 2	**V2.8.16** or above
CoreStation	**V1.5.2** or above

Allows connecting X-Station 2 as a slave device of CoreStation (1)

1) Supported models of X-Station 2

- **All models; Card only, Card + QR, Card + Fingerprint**

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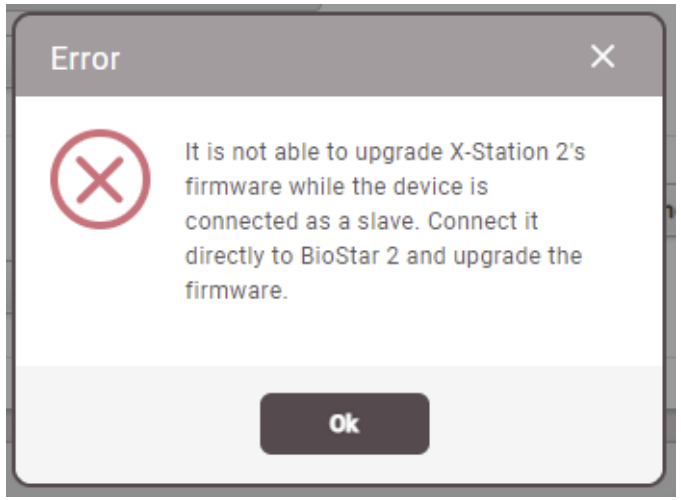
Allows connecting X-Station 2 as a slave device of CoreStation (2)

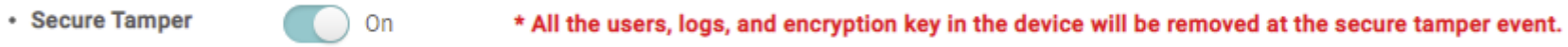
BioStar 2	**V2.8.16** or above
CoreStation	**V1.5.2** or above

2) You CANNOT upgrade X-Station 2 firmware during the device is in Slave mode.

- To upgrade X-Station 2 Slave device's firmware, you need to connect the device BioStar 2 directly via Ethernet.



3) You can use 'Secure Tamper' on X-Station 2 Slave device.



4) Image Log setting is NOT available during X-Station 2 is in Slave mode.

- Suprema will improve this part in the further releases.

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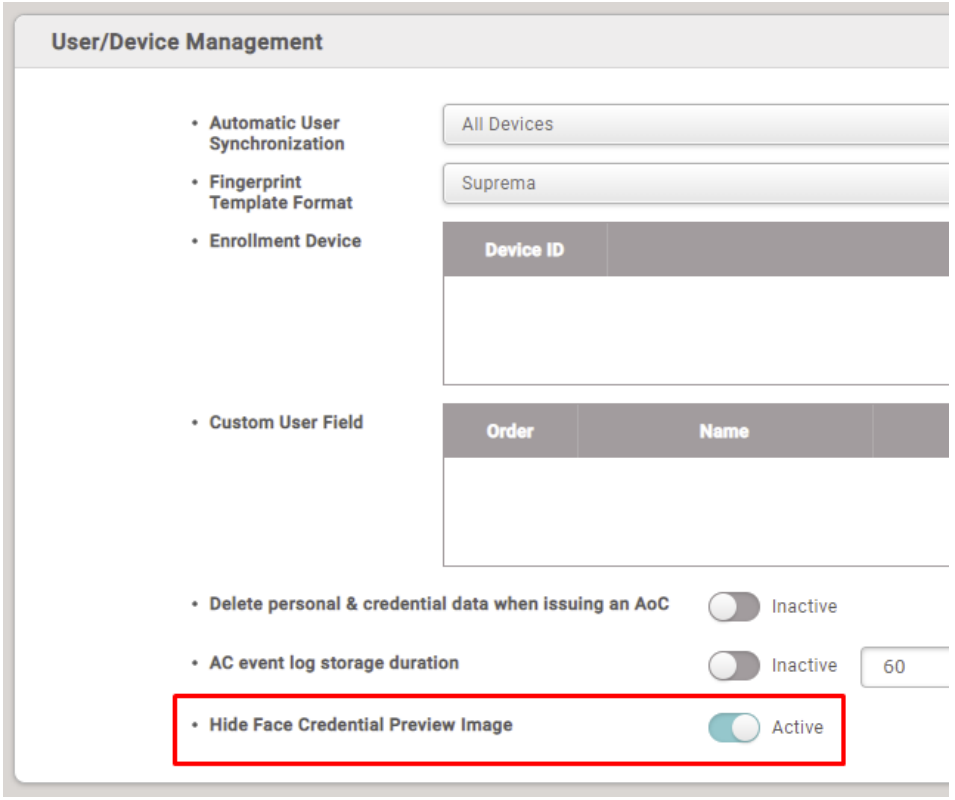
Added Hide Face Credential Preview Image option (1)

- Supports hiding the face preview screen of users registered on the server for privacy protection.

1) How to apply the 'Hide Face Credential Preview Image' function

a. Login BioStar 2 server and go to [Settings > Server > User/Device Management] part.

b. Active 'Hide Face Credential Preview Image' by toggle.



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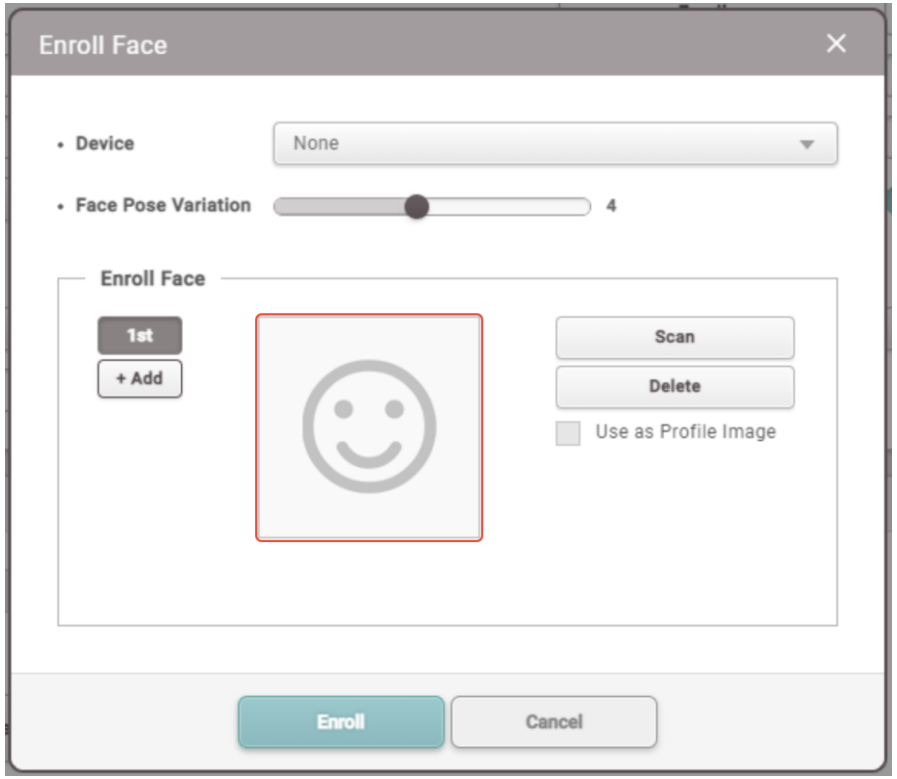
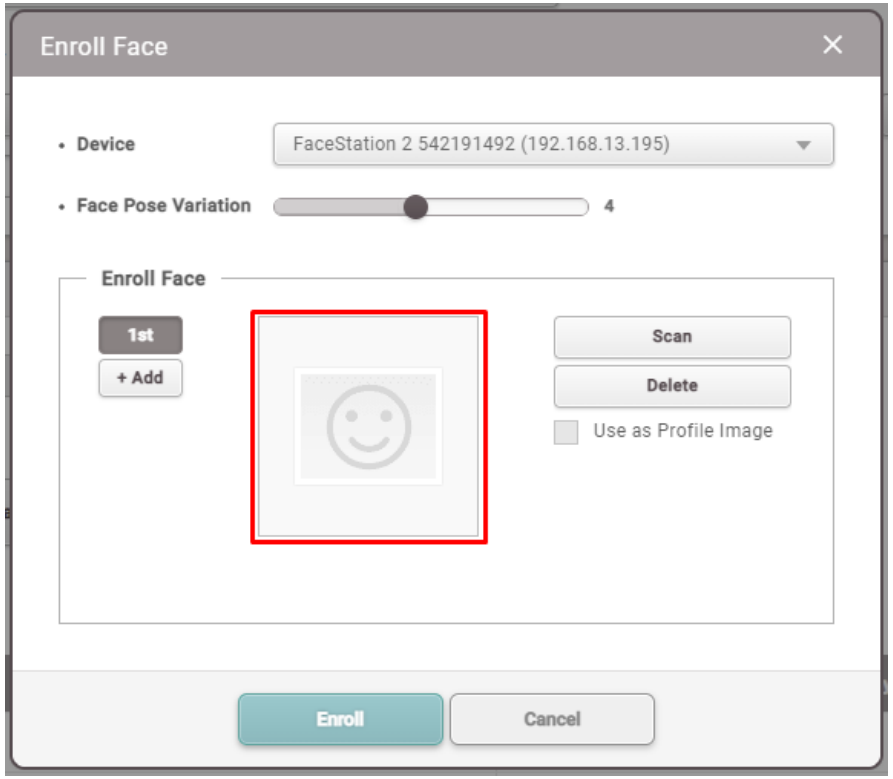
Added Hide Face Credential Preview Image option (2)

2) How it shows after applying 'Hide Face Credential Preview Image'

a. Face credential: FaceStation 2, FaceLite

Before enrolling face	After enrolling face





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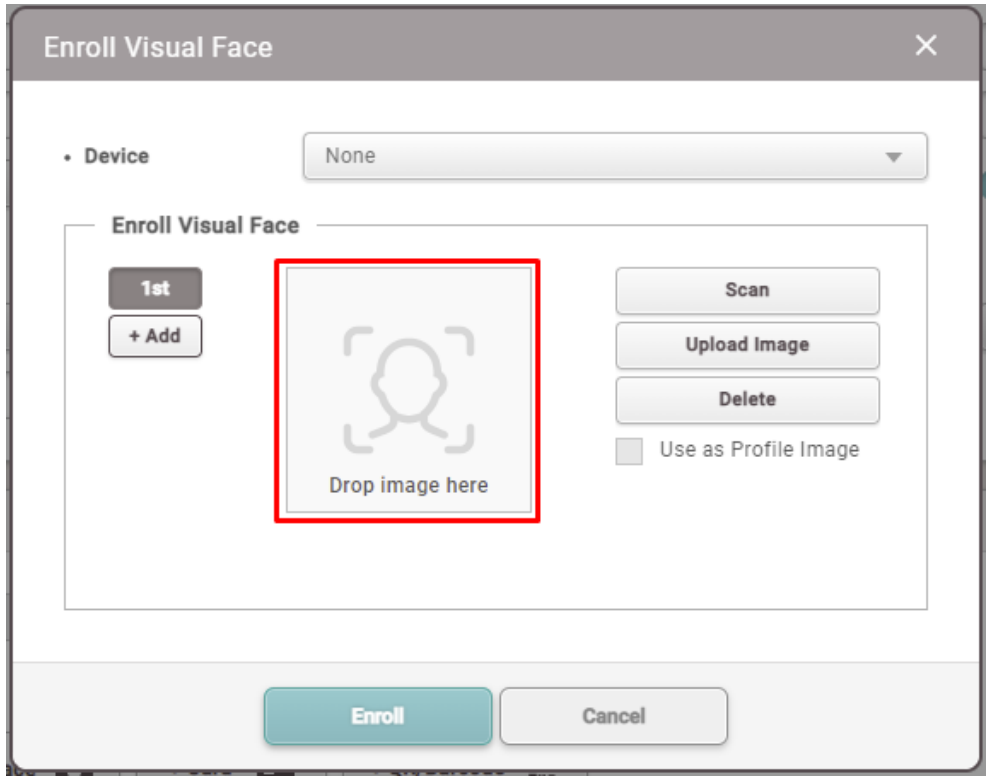
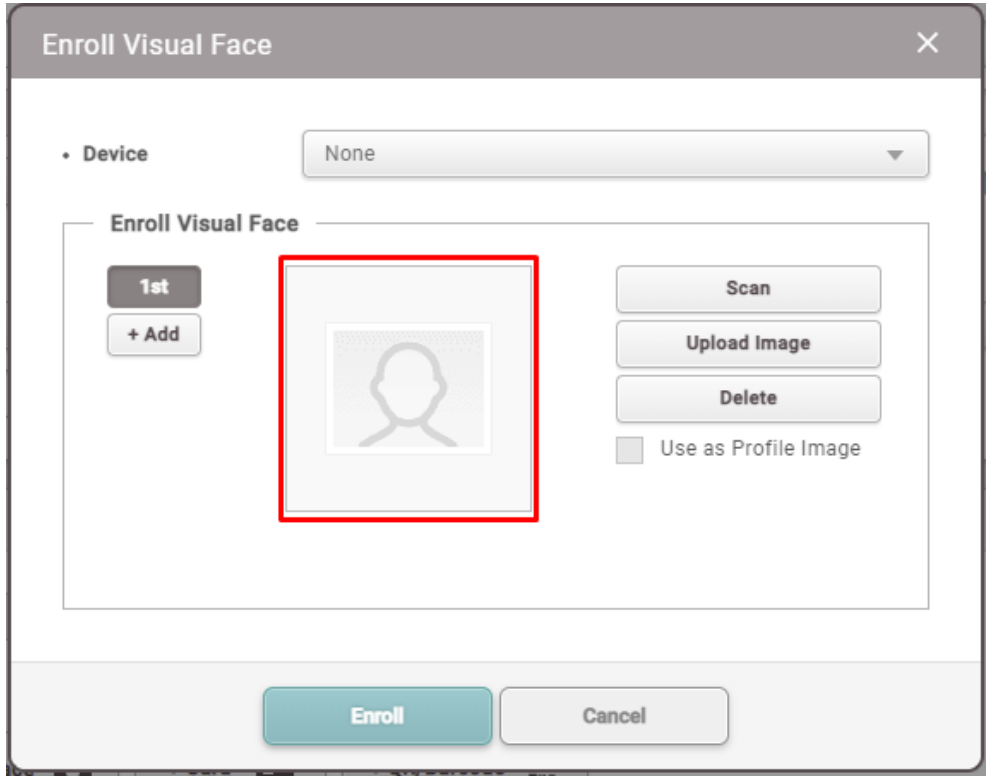
Added Hide Face Credential Preview Image option (3)

2) How it shows after applying 'Hide Face Credential Preview Image'

b. Visual Face credential: FaceStation F2

Before enrolling face	After enrolling face





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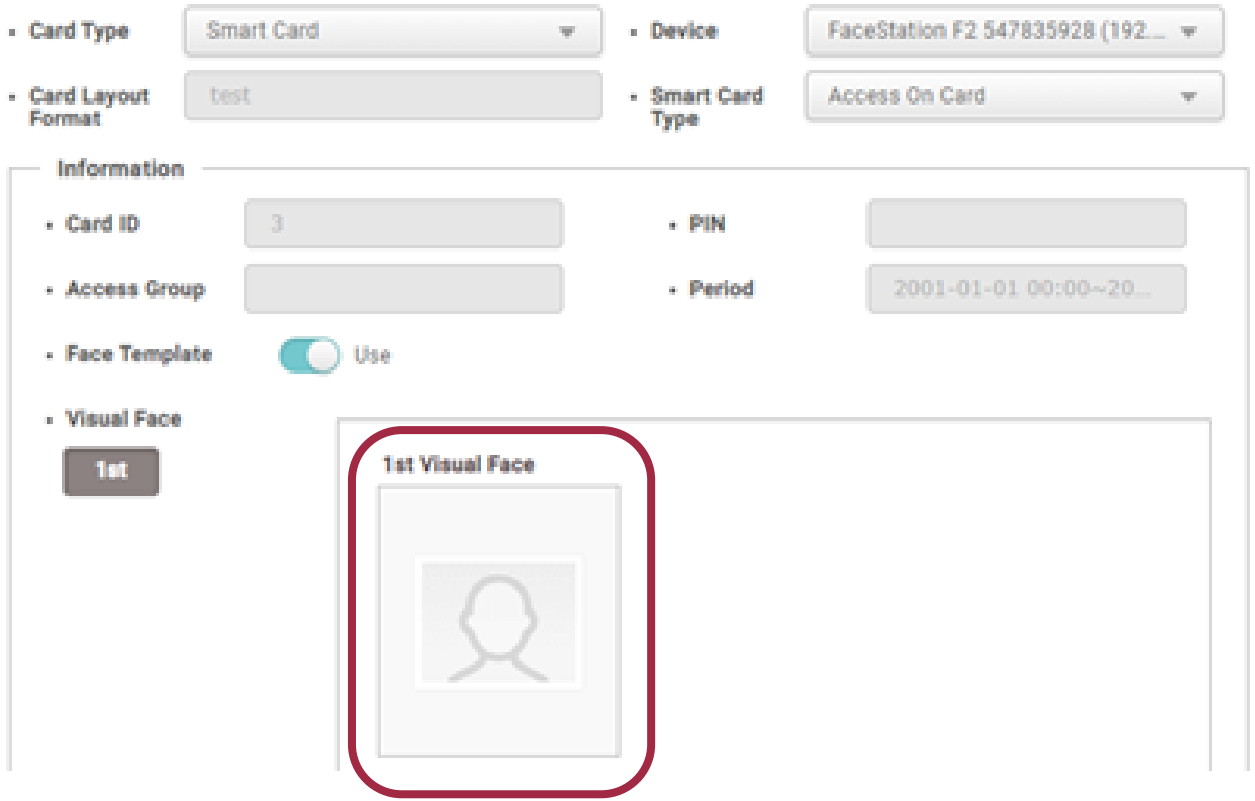
Added Hide Face Credential Preview Image option (4)

2) How it shows after applying 'Hide Face Credential Preview Image'

c. Smart card with Visual Face credential: FaceStation F2



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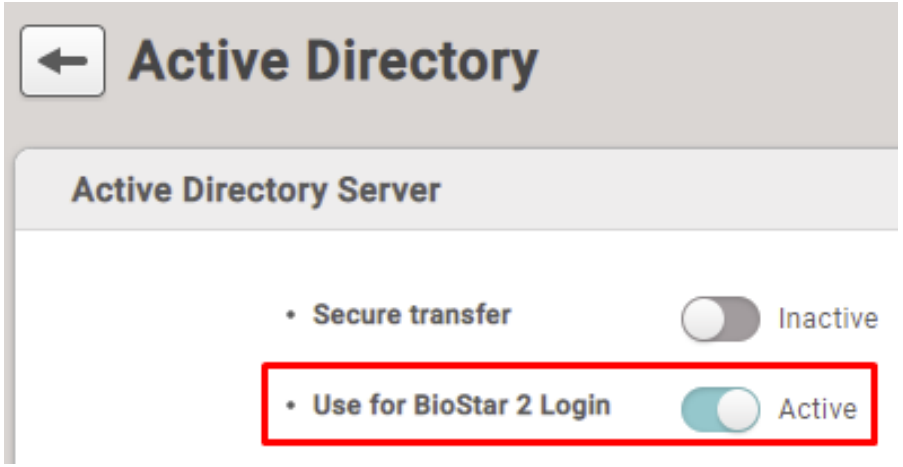
BioStar 2.8.16

Support to log in to BioStar 2 with Active Directory account

1) How to enable the 'Use for BioStar 2 Login'

- Go to [Settings > Active Directory > Active Directory Server].



2) Precautions

- Only Active Directory users synced to BioStar 2 can log in, and you must set operator Level for this user.
- When syncing with Active Directory, Active Directory users who have the same login ID as the Login ID used in BioStar 2 or whose ID is '1' will be excluded.
- User ID '1 (Administrator)' can log in to use BioStar 2 if there is an issue such as a system failure in the Active Directory server.

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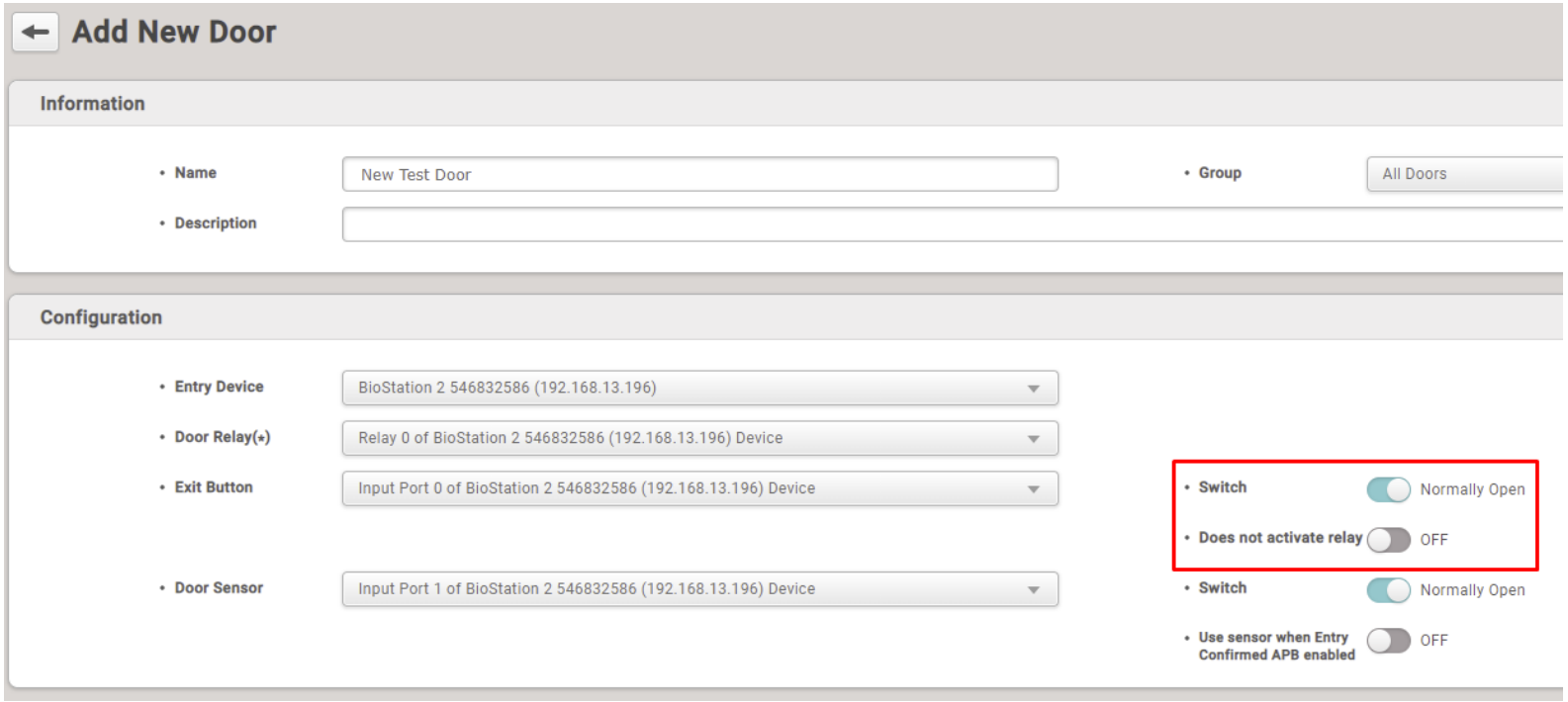
BioStar 2.8.16

Added relay deactivation option for exit button input

BioStar 2	**V2.8.16** or above
Device & Firmware	Check the table

- **Added the option to set the door open request log to occur but the relay not to operate when the exit button is pressed.**



Device Model	Firmware Version	Device Model	Firmware Version
BioLite N2	v1.5.0 or above	TBD	TBD

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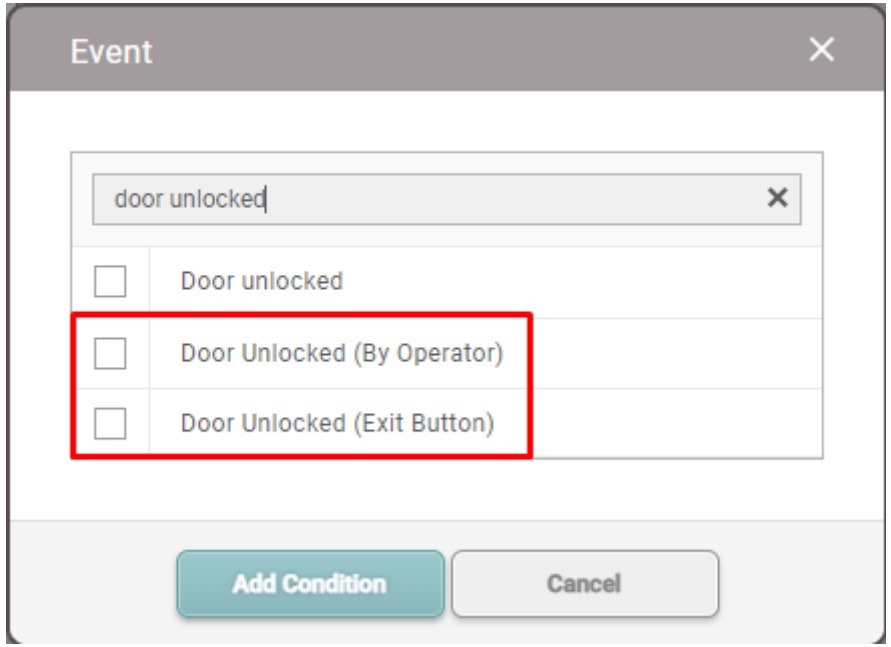
BioStar 2.8.16

Separated the log related to door unlock

BioStar 2	**V2.8.16** or above
Device & Firmware	Check the table

- **Door Unlocked (Exit Button)**
- **Door Unlocked (By Operator)**



Device Model	Firmware Version	Device Model	Firmware Version
BioLite N2	v1.5.0 or above	TBD	TBD

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Supports setting the byte order for smart cards (1)

BioStar 2 — **V2.8.16** or above

Device & Firmware — Check the table

- **Supports setting the byte order of data to be output to Wiegand or OSDP.**

Device Model	Firmware Version	Device Model	Firmware Version
XPass 2	v1.3.1 or above	BioLite N2	v1.5.0 or above
TBD	TBD		

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Supports setting the byte order for smart cards (2)

BioStar 2	**V2.8.16** or above
Device & Firmware	Check the table

1) This function is supported only when the Suprema device is directly connected to BioStar 2 via Ethernet.

- RS-485 Mode: Default, Master, Slave (but connected via Ethernet)
- You CANNOT set when the Suprema device is connected as a slave device of the Suprema device.

2) Options are only applicable for Wiegand output and OSDP output.

- Write Smart Card and Read Card are not affected.

3) Operation according to RS-485 Mode

- Default, Master, Slave (but connected via Ethernet): Operates according to the device's 'Smart Card Output Byte Order' setting.
- When connected to the Slave device of the Suprema device: The Slave transmits the Card ID to the Master device and operates according to the 'Smart Card Output Byte Order' setting in the Master device.

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Supports setting the byte order for smart cards (3)

BioStar 2	**V2.8.16** or above
Device & Firmware	Check the table

4)Operation according to Wiegand Output

- When Output info is Card ID: Operates according to the setting.
- When Output info is User ID: Not influenced.

5)Actions according to the card type

- MIFARE, DESFire: Operates according to the 'Smart Card Output Byte Order' setting.
- iClass: Not influenced. Output PAC data as it is.
- BioStar 2 QR: Not influenced.

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Added the Use QR as card option (1)

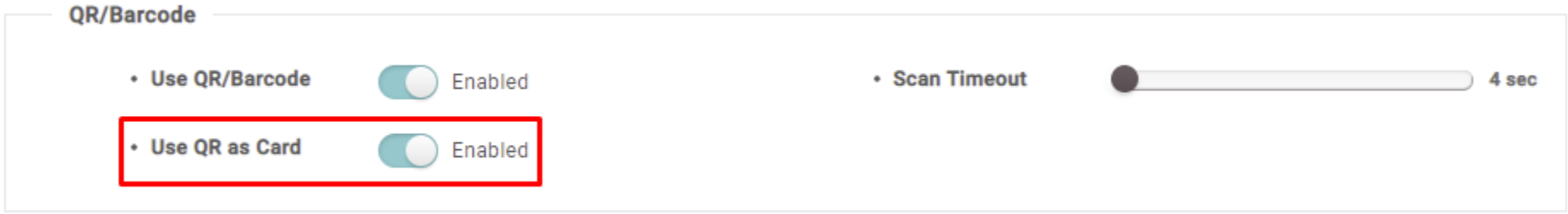
BioStar 2 Device & Firmware: **V2.8.16** or above

X-Station 2

- Supports selecting whether to allow authentication when the QR data scanned by the device is the same as the card data issued to the user.

1. Feature notice

- 'Use QR as Card' is available only when 'Use QR/Barcode' is Enabled.
- This function is not supported for BioStar 2 QR.
- This function is not supported for Smart Card.



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Added the Use QR as card option (2)

BioStar 2 Device & Firmware: **V2.8.16** or above X-Station 2

2. 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)

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Added the Use QR as card option (3)

BioStar 2 — **V2.8.16** or above

Device & Firmware — X-Station 2

2. Sample user scenario

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

QR type	QR value	QR sample
Free Text	1251686652985216	

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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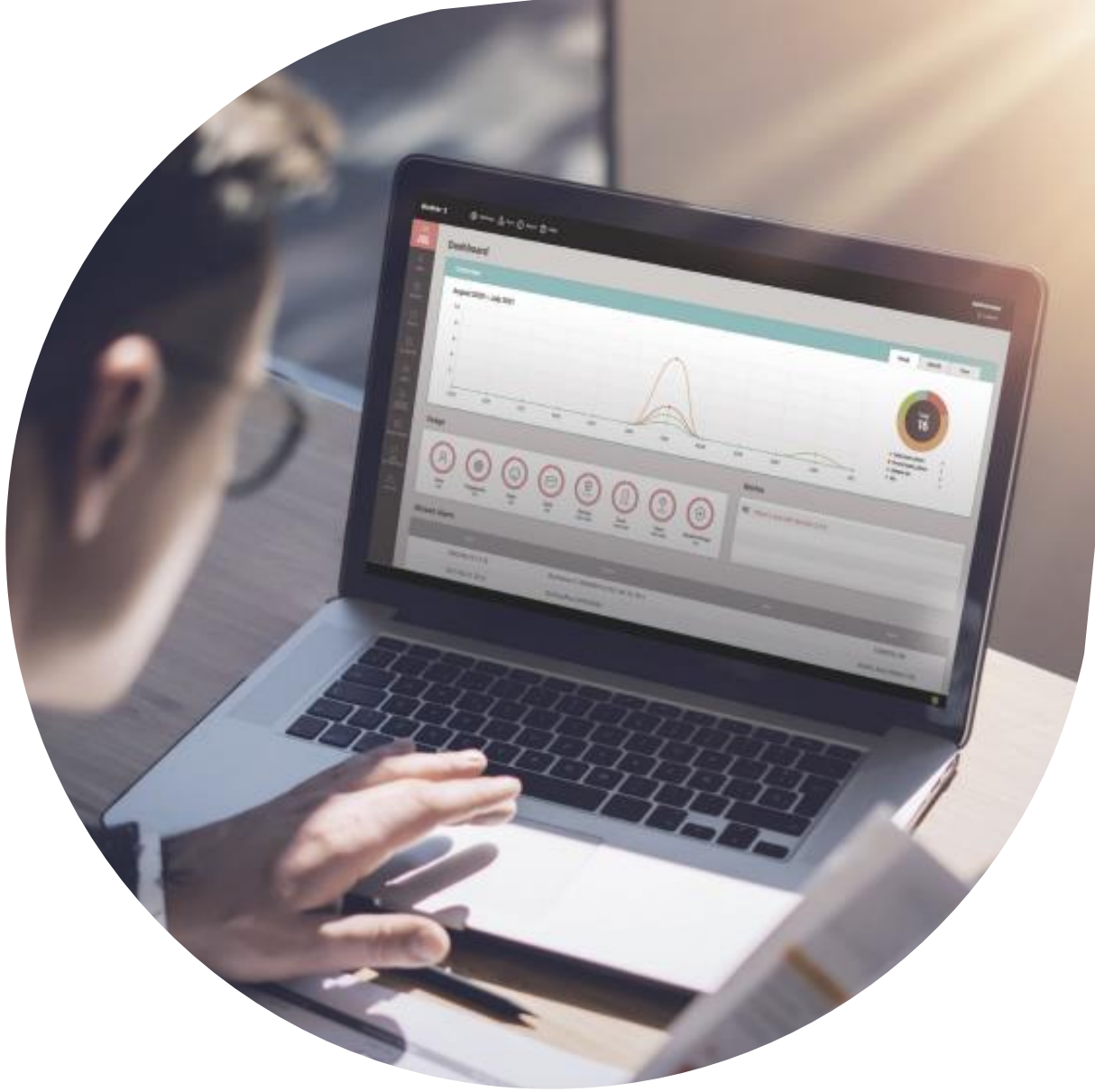
03

BioStar 2.8.17

BioStar 2 Time Attendance Improvements



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BioStar 2.8.17

Improved Time & Attendance security vulnerabilities

- Restricted unsupported cipher suites from server settings
- Updated DB driver to the latest version
- Updated jQuery to the latest version
- Added security check while using Time & Attendance API through websocket

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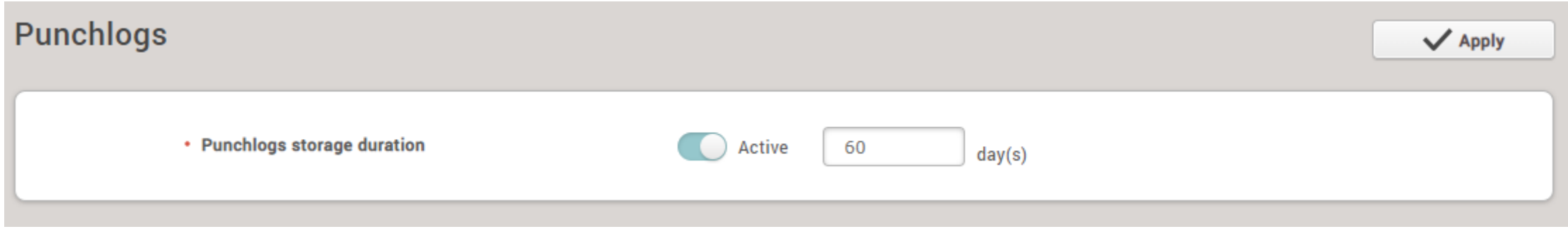
Supports deleting Time & Attendance punch logs after a certain period

1. When the function is activated, the ENTIRE T&A records that have exceeded the storage deadline as shown below:
   - Synchronized punch logs from the AC DB (records authenticated by the device)
   - Modified punch logs manually modified by administrators, etc.
   - Leave records manually set by administrators, etc.

2. It is HIGHLY recommended to back up the BioStar 2 DB before using this function.
   - Once applied, all the already deleted attendance and leave records cannot be restored.
   - Ex) If you previously set it to 30 days and then changed it to 60 days, the 30-day record corresponding to the difference between the two settings is not stored in the DB and cannot be restored.



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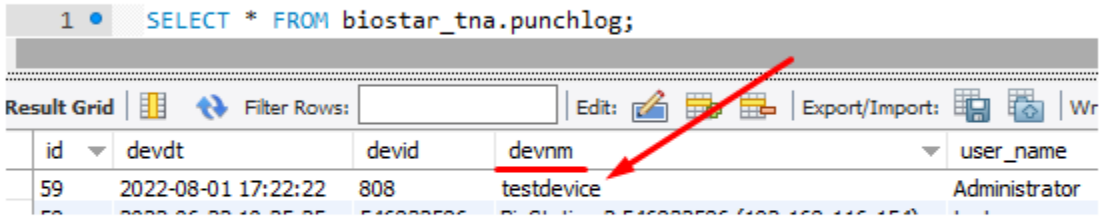
Improved the API creating modified punch logs to have custom device names (1)



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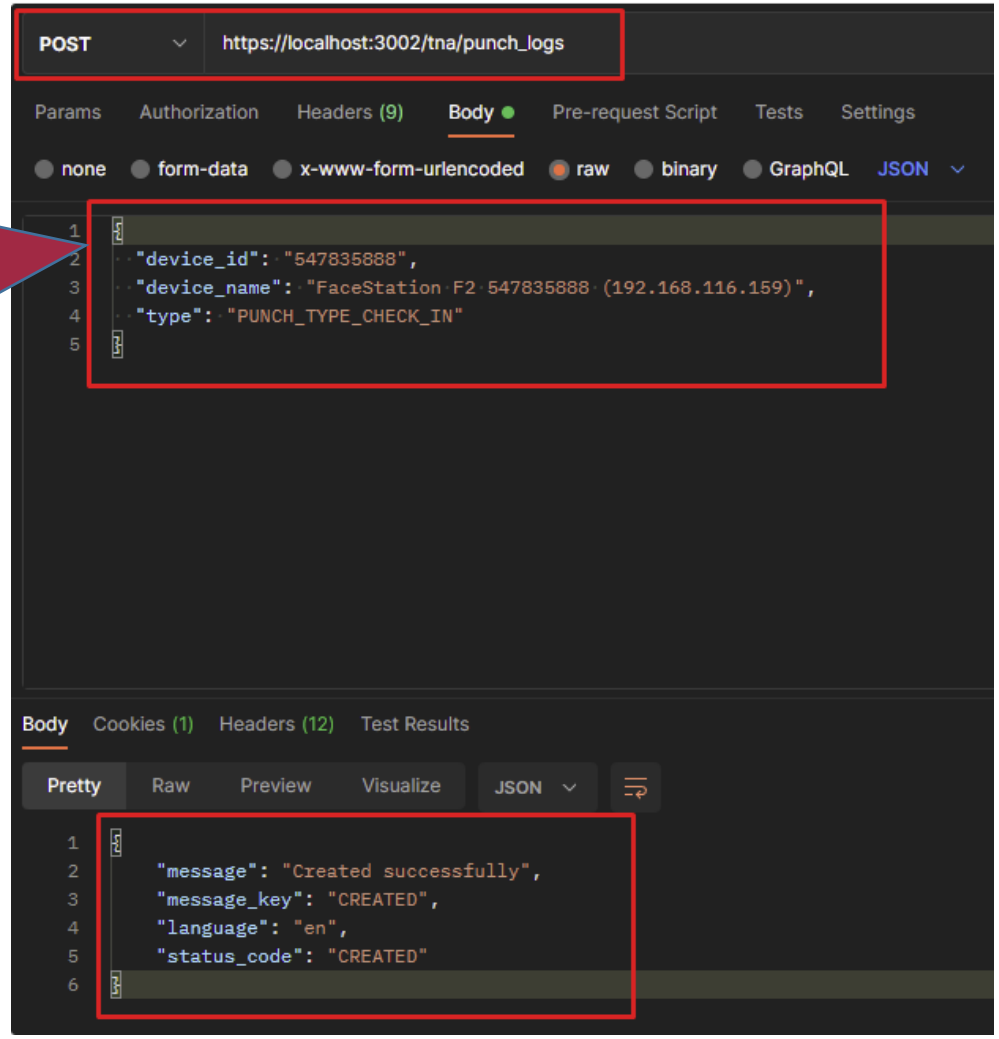
Improved the API creating modified punch logs to have custom device names (2)

If you do not put "device_date_time" value, the punch log will be created with the CURRENT DATETIME.



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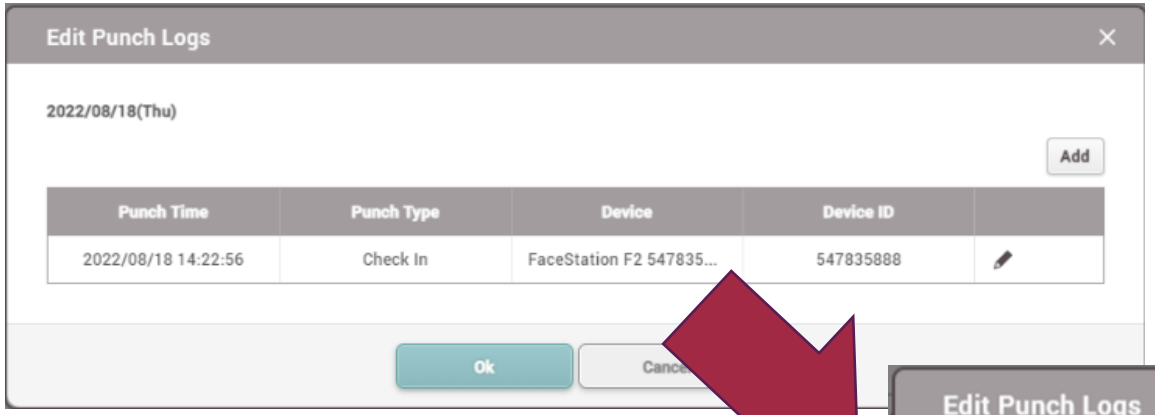
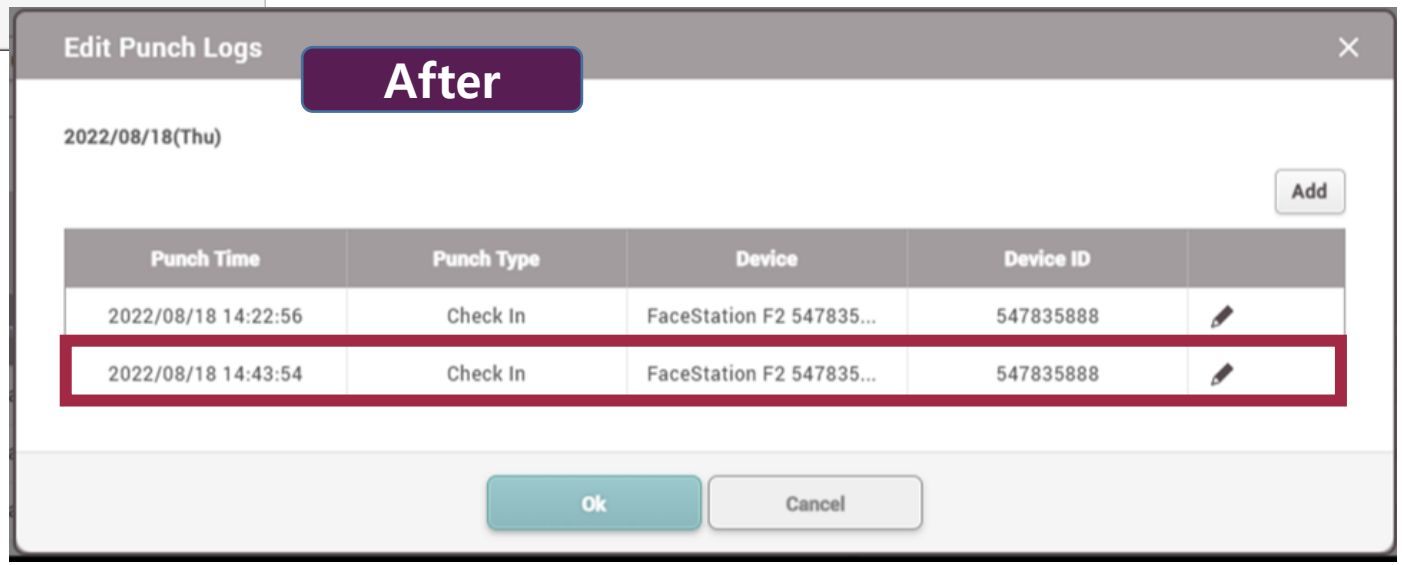
Improved the API creating modified punch logs to have custom device names (3)

Before



After



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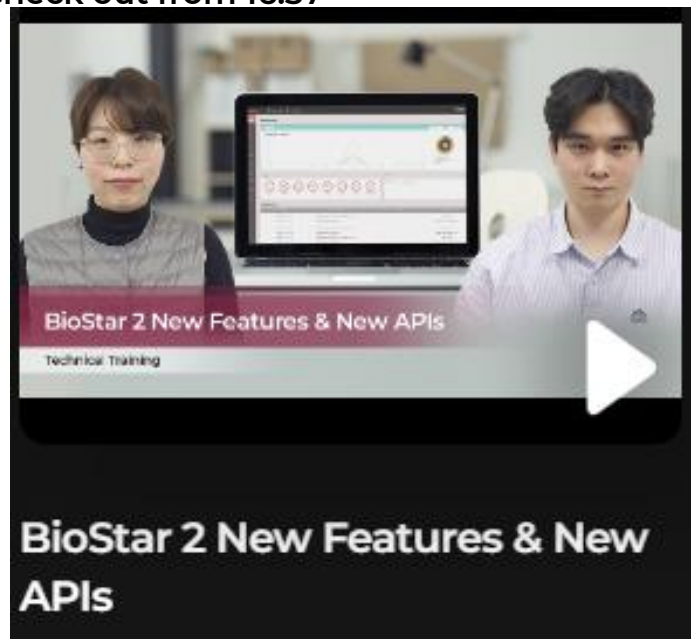
Improved the API creating modified punch logs to have custom device names (4)

How to use BioStar 2 TA API?

Visit Suprema Connect

- https://www.supremainc.com/connect/index.asp
- **Check out from 16:37**



Visit Suprema Technical Support

- https://support.supremainc.com/en/support/solutions/folders/24000012938

BioStar 2 TA API (20)

- [BioStar 2 TA API] How to use and start BioSt...
- [BioStar 2 TA API] How to retrieve REPORT in...
- [BioStar 2 TA API] Create Time Codes
- [BioStar 2 TA API] Search Time Codes
- [BioStar 2 TA API] Modify Time Codes

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04

Major Bug Fixes

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Major Bug Fixes

BioStar 2.8.15

1. DB Lock occurred when user data changes frequently, such as adding, deleting, or editing, were made in a short period of time during Automatic User Synchronization (Affects version: v2.7.14).
2. In the MS SQL Server database environment, BioStar 2 did not operate normally if more than 526 user groups or users were set in the access group when using ‘Specific Devices’ Automatic User Synchronization (Affects version: v2.8.14).
3. The data of the already deleted devices were logged in the user synchronization fail table when using ‘Specific Devices’ Automatic User Synchronization (Affects version: v2.7.11).

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Major Bug Fixes

BioStar 2.8.16 (1)

** Please check the Revision Note document for details.*

1. The screen displayed abnormally when entering the details page of the disconnected slave device (Affects version: v2.8.6).
2. Description of the photo value of POST/api/users was incorrectly written as binaryDatas (Affects version: v2.7.12).
3. CSN card, smart card, and mobile card activation settings of BioEntry W2 (BEW2-OHP) device were not saved (Affects version: v2.7.6).
4. In an environment using MS SQL Server database, If the Output Module (OM-120), a slave device of CoreStation, was deleted, the device list was not queried (Affects version: v2.8.12).
5. Encryption migration failed in the decryption environment (Affects version: v2.8.0).
6. Visual Face data intermittently not syncing to other devices (Affects version: v2.8.6).
7. When a user is deleted from Manage Users in Device, other information in the synchronization table was also deleted and synchronization failed (Affects version: v2.4.0).
8. Users using custom user field were not updated during ‘All Devices (including user update from device)’ automatic user synchronization (Affects version: v2.8.0).
9. Target of the audit trail was output in the format of 'eventType.number' when alert setting changed (Affects version: v2.8.9).
10. Airfob Portal connection failed with unknown error message (Affects version: v2.7.12).
11. Access level could be assigned on a device with full access enabled (Affects version: v2.4.0).
12. If the relay was not set, user could not create a door, but the previously added door was saved without setting the relay (Affects version: v2.5.0).

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Major Bug Fixes

BioStar 2.8.16 (2)

** Please check the Revision Note document for details.*

13. The log recorded in the real-time log could not be queried in the event log (Affects version: v2.8.4).
14. Temperature measurement error pop-up messages showed only the user ID but not the name (Affects version: v2.8.11).
15. Daylight Saving Time (DST) setting not reflected in image log time (Affects version: v2.0.0).
16. VIDEO menu not accessible when using subdomain (Affects version: v2.6.0).
17. When using Personal Information DB Encryption, if user information was edited in Active Directory and then synchronized, the changes were not synchronized (Affects version: v2.8.0).
18. When updating user information using the API, an 'E-mail already exists' message was returned if the same email was maintained (Affects version: v2.0.1).
19. 'Visual Face Extraction Failed' event not searchable through the event log filter (Affects version: v2.8.10).
20. Symbols could be entered through API even though it does not support the use of symbols when entering department and title in user information (Affects version: v2.8.9).
21. Certain symbols (-) could not be entered in the name of a user who issued the QR/Barcode (Affects version: v2.8.11).
22. Error message displayed when the 'Connect' button on the mobile access setting screen was clicked while the mobile access is set (Affects version: v2.8.14).
23. Fingerprint scan request runs twice when enrolling a fingerprint with the USB enrollment device (BioMini) in an environment using the latest version of Chrome (Chrome 98) (Affects version: v2.0.0).
24. Failure to function properly when exporting some T&A reports more than two pages PDF (Affects version: v2.8.14).

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Major Bug Fixes

BioStar 2.8.17

1. ‘Floating shift’ not being able to set ‘Punch in granted time range’ to start from 00:00 (Affects version: v2.7.2).
2. ‘Floating shift’ not being able to set the time segment from 00:00 to before the ‘Day start time’ (Affects version: v2.7.0).
3. Not able to access the Time & Attendance menu when changing the server protocol to HTTP from HTTPS (Affects version: v2.8.10).
4. Searching users in a specific language doesn’t work in an environment using MS SQL Server database (Affects version: v2.2.1).
5. Work time not calculated correctly when using ‘First check-in & Last check-out’ and ‘Meal deduction’ configured as ‘Fixed’ at the same time (Affects version: v2.7.0).
6. ‘T&A Required’ option could not be changed to No from Yes when device’s ‘T&A Mode’ is set as ‘By User’ from the Time & Attendance Setting menu (Affects version: v2.8.5).
7. Users get deleted intermittently from Time & Attendance menu when moving users to another user group and deleting the previous group itself (Affects version: v2.8.9).
8. Reports not being generated when operators logged in concurrently (Affects version: v2.2.1).
9. Custom fields get applied only after 2 attempts from the column settings of the reports’ ‘Filter Conditions’ (Affects version: v2.7.9).
10. Filter conditions not showing the full result of user group search once the search result gets deleted and followed by another user group (Affects version: v2.2.1).
11. Deleted users from BioStar 2 still appears in the Time & Attendance menu (Affects version: v2.8.16).
12. When the Device Setting is changed after the T&A service is started, the "Login Required" Alert pop-up continuously occurs (Affects version: v2.8.9).

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05

Q&A

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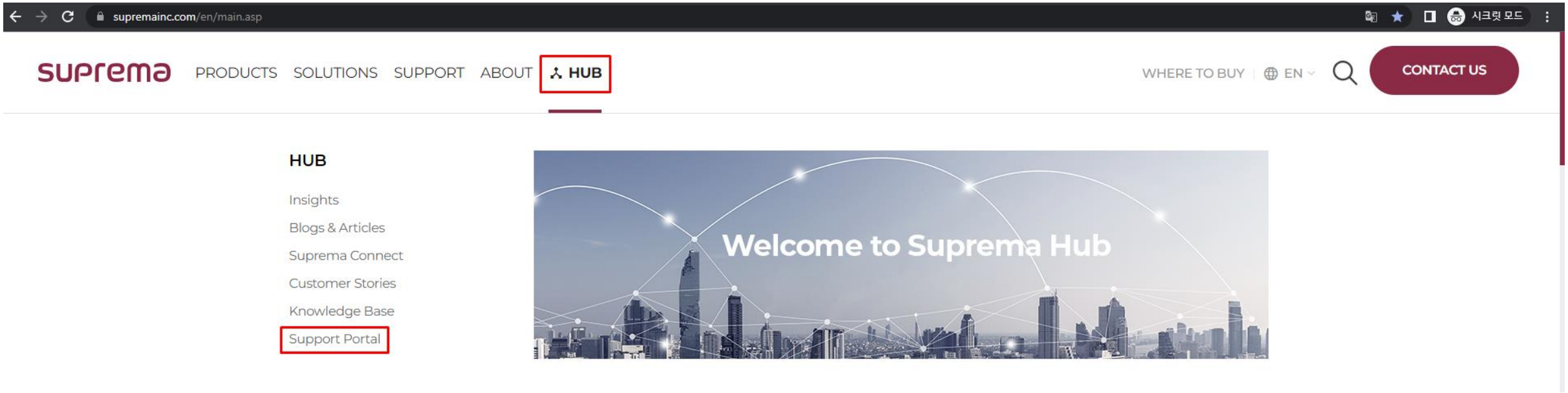
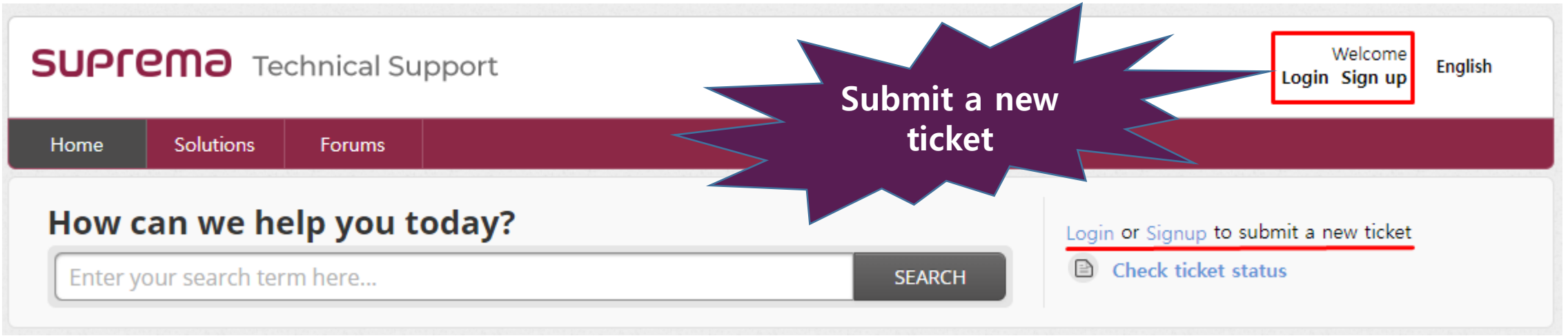
How can you ask questions on on-demand webinar?





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Thank you.