

C15/C18 – Matrix V – DMS Integration Quick Guide

1) Install SQL and Matrix V software as normal.

2) Install Device Management System (DMS).

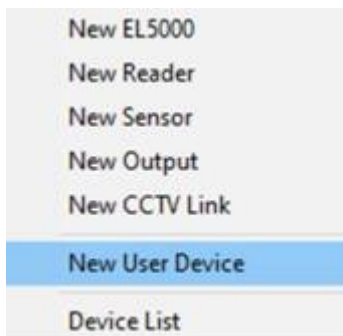
<http://www.elid.com/support/tiki-index.php?page=Device+Management+System>

- Click [Next] only to proceed the installation.

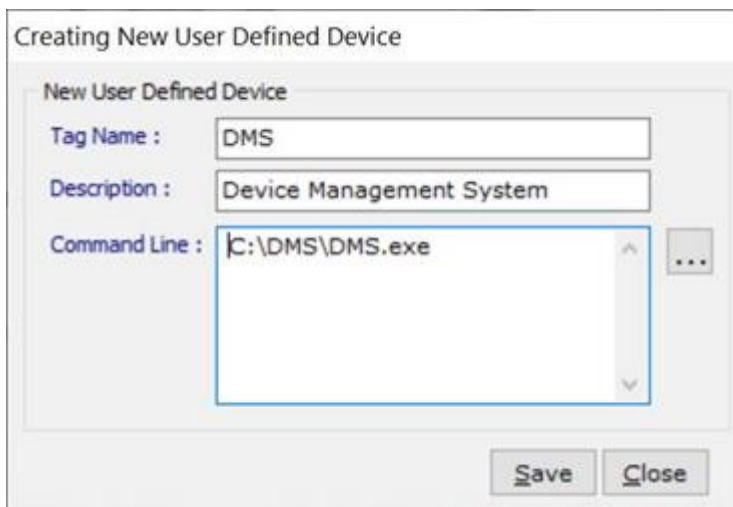
- **Please don't install DMS at C:\Program Files or C:\Program Files (x86).**

3) Open Matrix V Designer.

- Right click floor plan and then select New User Device.

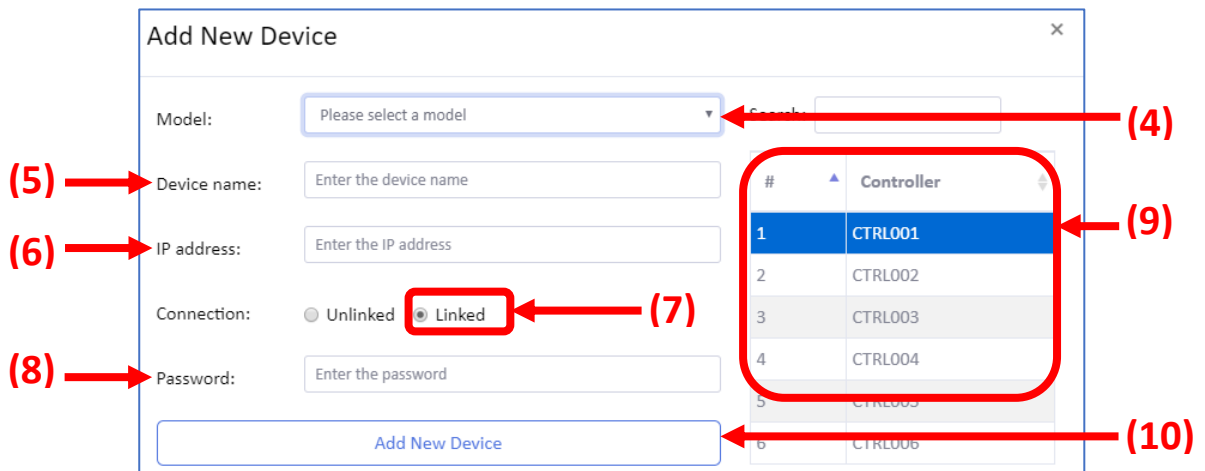
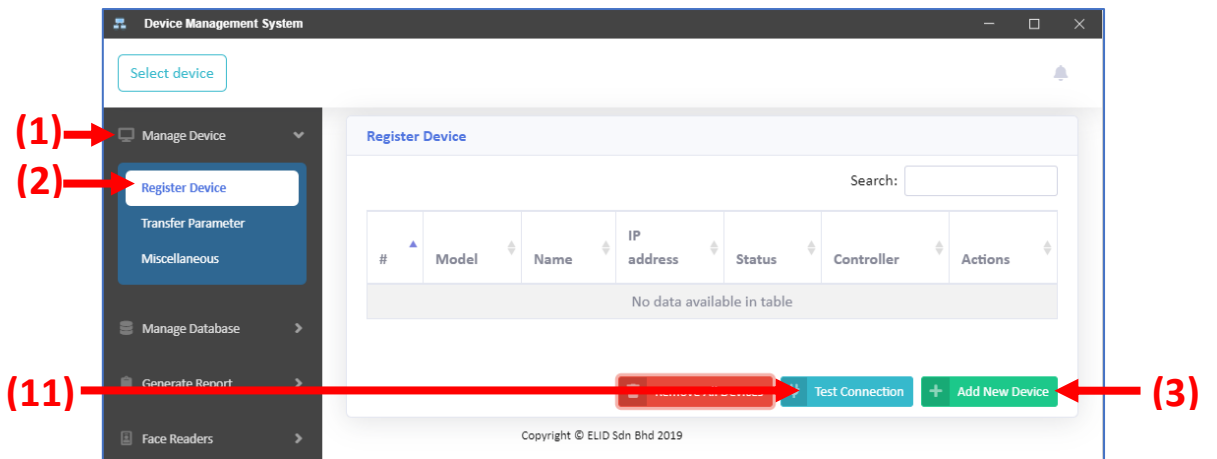


- Enter tag name and description, then browse DMS application and save it.



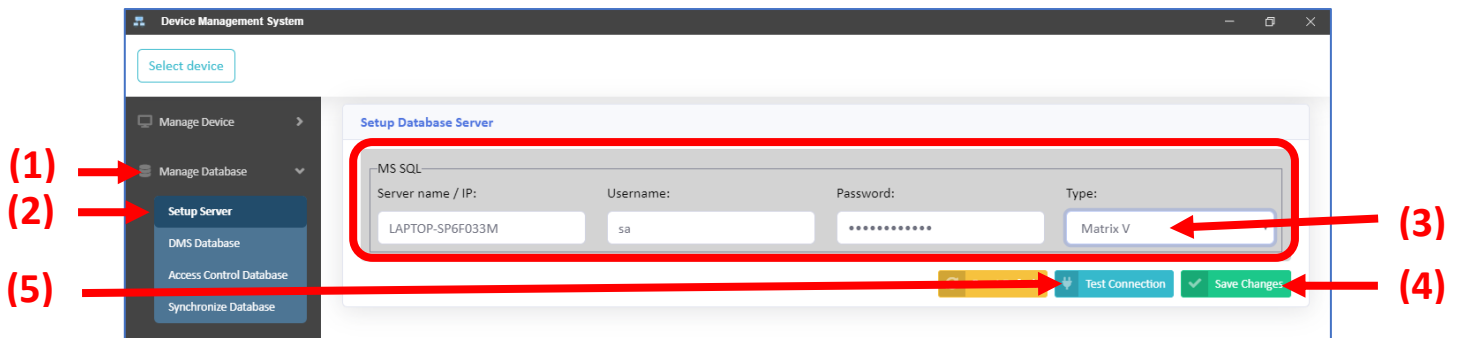
4) Open Matrix V Manager and click on the DMS device icon to open DMS.

5) Add New Device



- (1) Click Menu [Manage Device]
- (2) Click on [Register Device]
- (3) Click on [Add New Device]
- (4) Select Model based on device (C15/C18)
- (5) Enter Device name
- (6) Enter the IP Address of device
- (7) Connection select [Linked]
- (8) Enter the password of device (C15/C18 Default: 12345678)
- (9) Highlight the linked controller
- (10) Click on [Add New Device]
- (11) Click [Test connection] to check whether C15/C18 is connected

6) Setup Matrix V Database Server



(1) Click Menu [Manage Database]

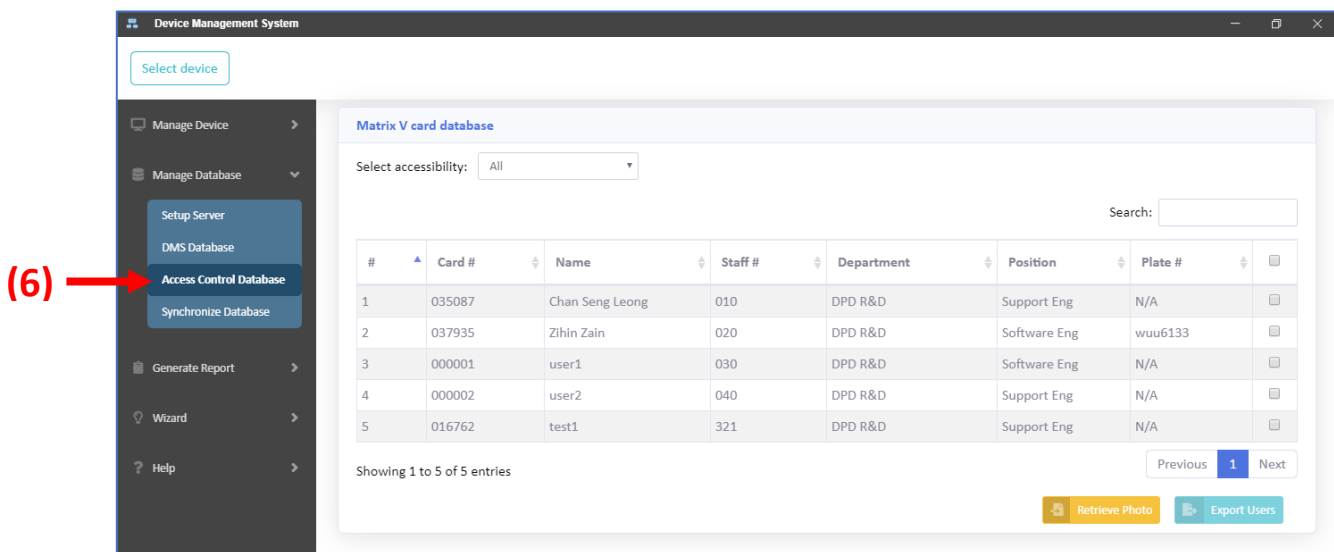
(2) Click on [Setup Server]

(3) Enter Matrix V SQL Database details. **Note: Ensure that Matrix V is selected for the type.**

(4) Click on [Save changes]

(5) Click on [Test Connection] to confirm the database is linked

(6) Click on Menu [Access Control Database] to confirm the database is synchronized.

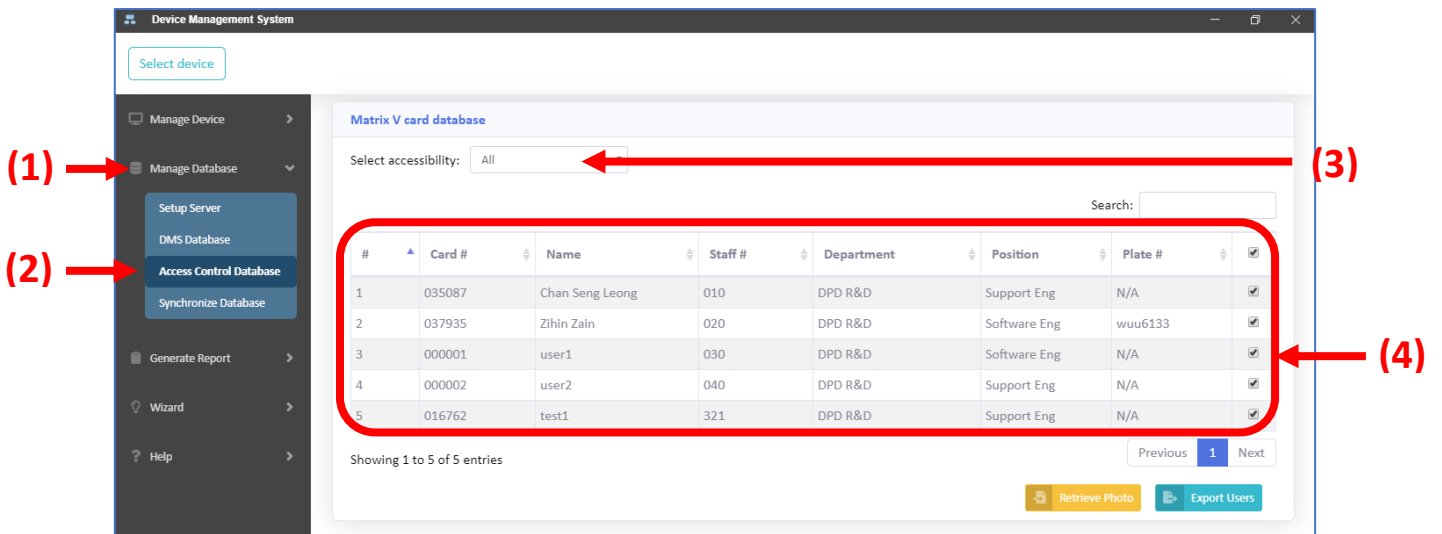


Note: Now that the devices are registered, we need to register the card users into the devices. There are two ways to register the users: 1) Register photo from PC, 2) register photo from device.

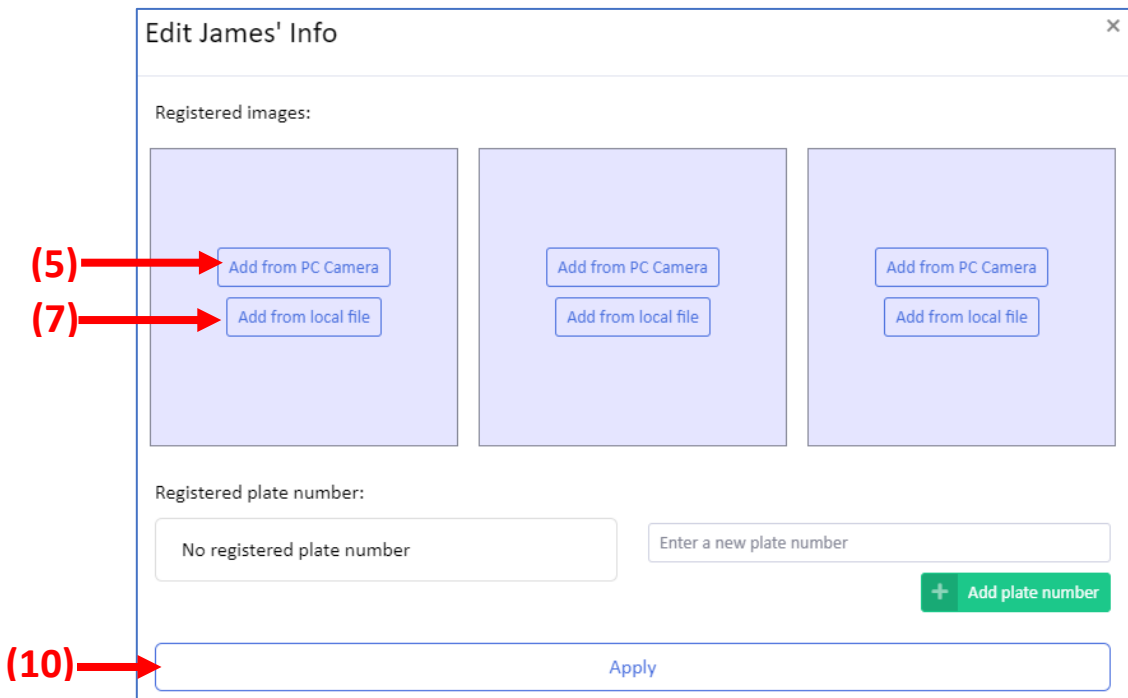
If you want to register photo from PC, follow step **7) Register Face by Photo/PC Camera** and step **8) Synchronise Matrix V Database with Device**, then skip step **9) Register Face by Device**.

Otherwise, if you want to register photo from device, skip step **7) Register Face by Photo/PC Camera**, then follow step **8) Synchronise Matrix V Database with Device**, and step **9) Register Face by Device**.

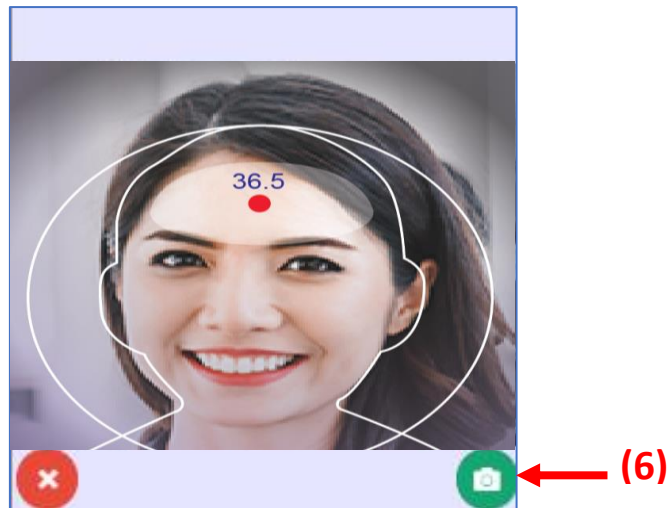
7) Register Face by Photo/PC Camera



- (1) Click on Menu [Manage Database]
- (2) Click on [Access Control Database]
- (3) Select Accessibility that the required staff belongs to
 - For first time use, select [All]: All Accessibility
- (4) Select the required staff to register their face

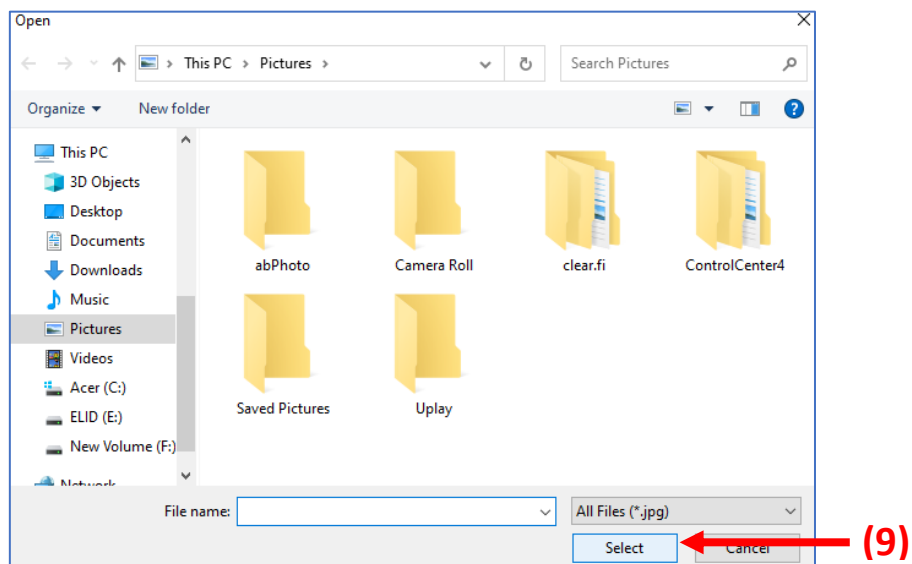


- (5) Click on [Add from PC Camera] to register face by PC webcam



(6) Click on the icon  to capture image

(7) Click on [Add from local file] to register face by photo



(8) Select the required photo from PC

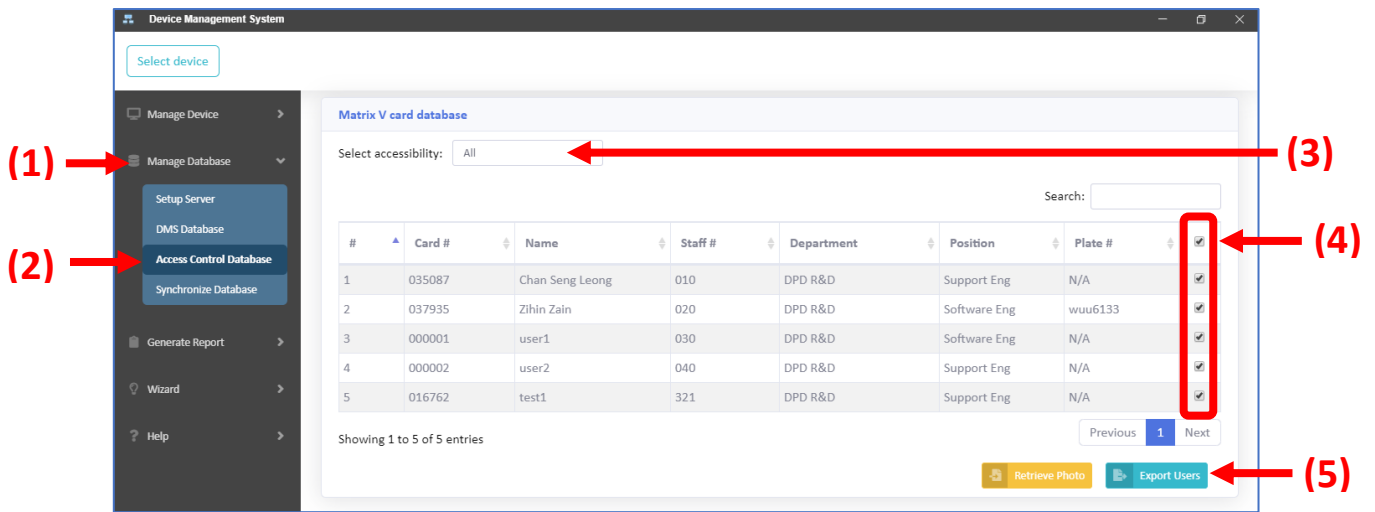
(9) Click [Select] to import the photo file into software

(10) Repeat steps (5) to (9) to register 3 faces per staff

(11) Click [Apply] to apply the registration into software

(12) Repeat Steps (3) to (11) for every staffs who required to register face

8) Synchronise Matrix V Database with Device



(1) Click on Menu [Manage Database]

(2) Click on [Access Control Database]

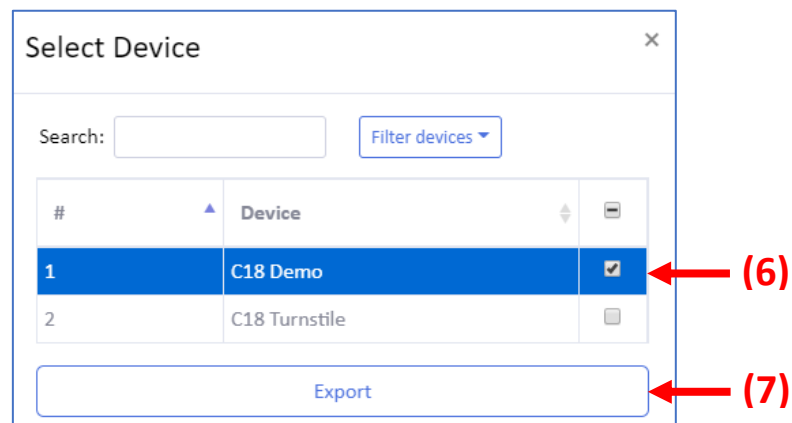
(3) Select the required Accessibility

- Accessibility is duplicated from Matrix V database
- For first time use, select [All]: All Accessibility

(4) Tick on the required staff to synchronise with the device

- For first time use, tick all

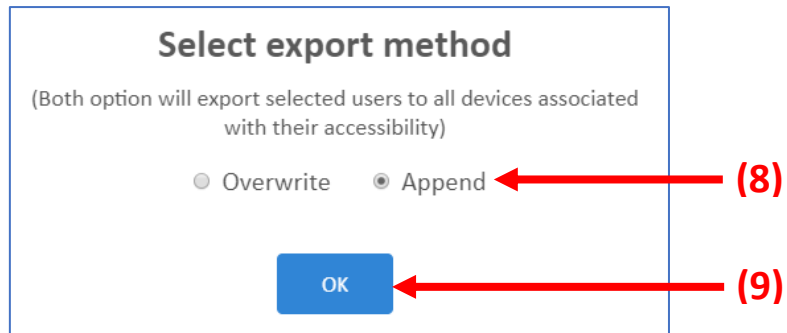
(5) Click on [Export Users]



(6) Tick on the target device

- For first time use, tick all

(7) Click on [Export]

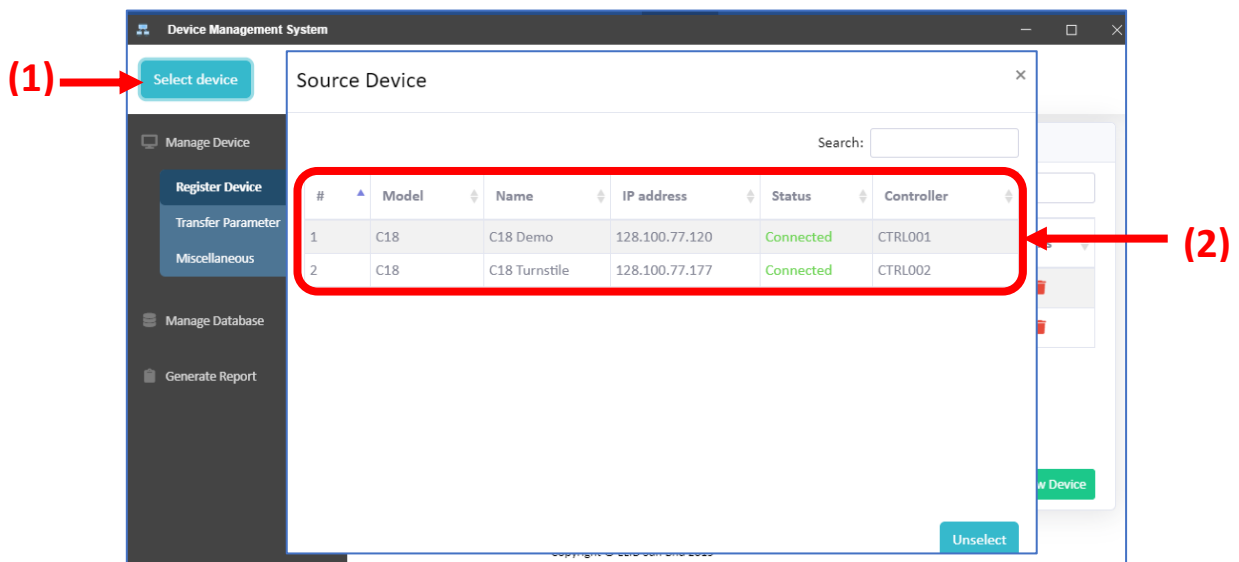


(8) Tick [Append]

- [Overwrite] will delete all database in the device, then add in the selected staff

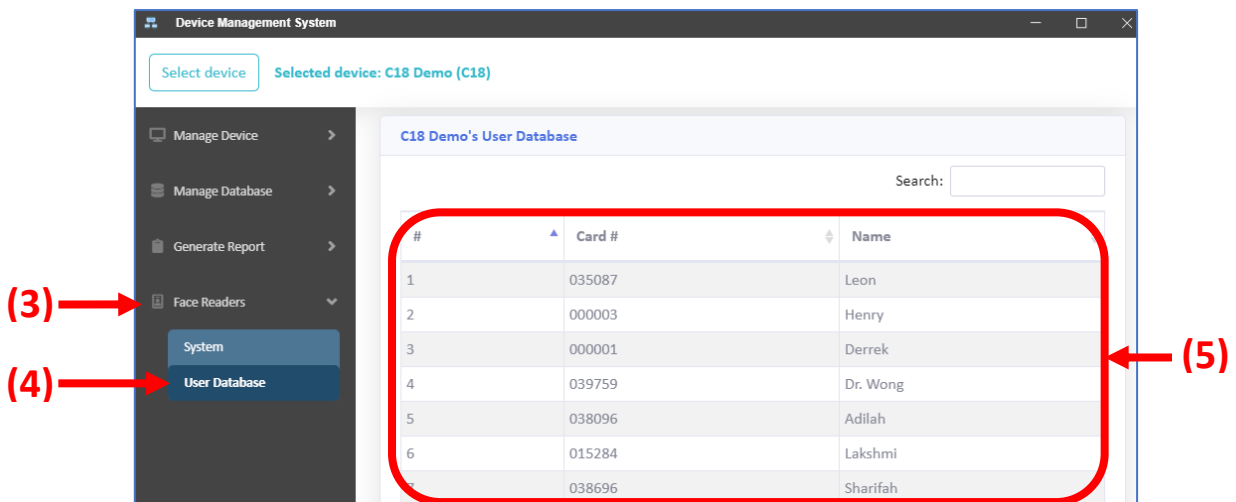
(9) Click [OK] and wait for the exporting finish

9) Register Face by Device

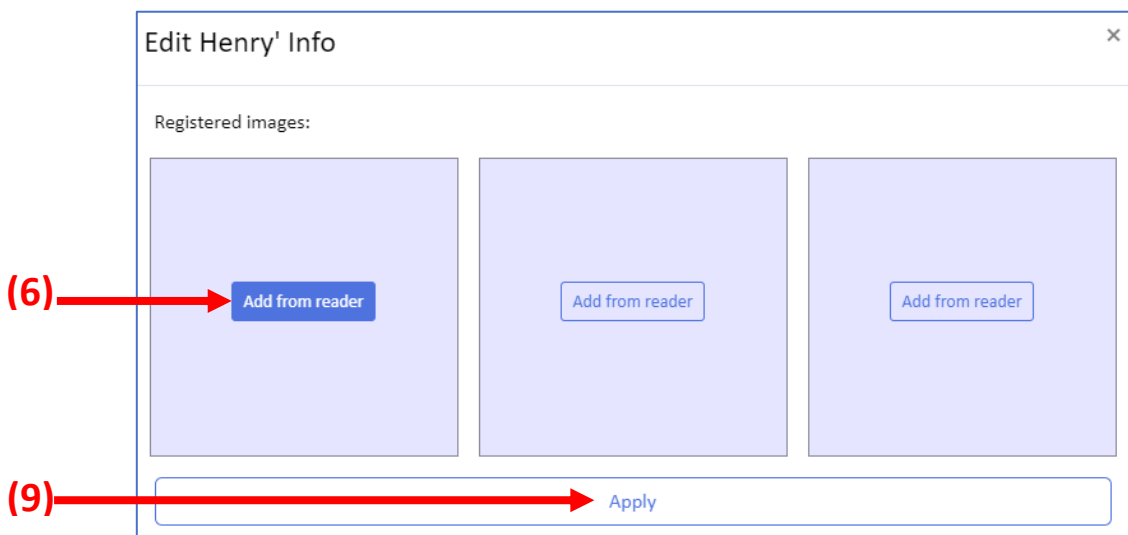


(1) Click on Menu [select device]

(2) Click on the required device to register face



- (3) Click on menu [Face Readers]
- (4) Click on [User Database]
- (5) Select the required staff to register their face by device



- (6) Click [Add from reader] to activate the device into Facial Registration Interface
- (7) The staff should stand at a distance of more than one arm directly in front of the device according to the device prompt, maintaining a calm expression, facing the face machine squarely, and ensuring that the face is waiting for the registration to be completed in the middle of the screen
- (8) Wait for the registered photo appear in the box
- (9) Click [Apply] and wait for exporting finish

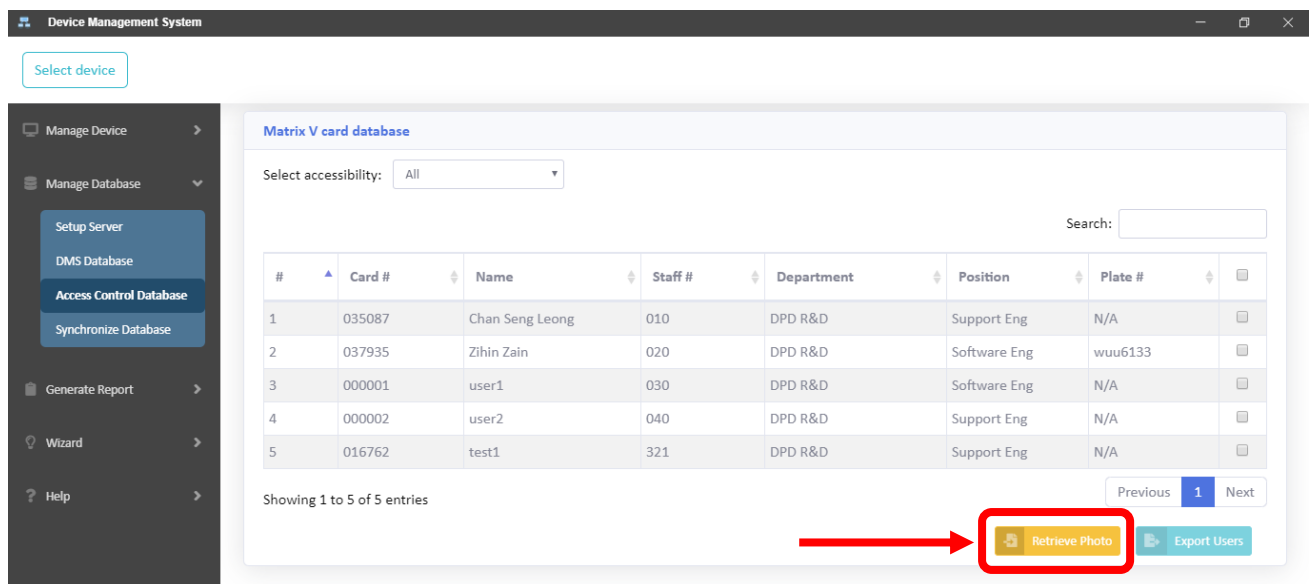
Caution:

The faces that registered by C15/C18 device is not tally with DMS software database.

Please don't do [Export Users] in the Menu [Access Control Database] after this, else the user database in C15/C18 device will be overwritten and loss all the registered face.

Note:

You can retrieve the photo from the devices and save them in your PC by clicking on the retrieve photo button in the Menu [Access Control Database]. **This will overwrite existing photo in your PC.**



The screenshot shows the 'Device Management System' interface. On the left is a dark sidebar menu with options: Manage Device, Manage Database (expanded), Setup Server, DMS Database, Access Control Database (selected), Synchronize Database, Generate Report, Wizard, and Help. The main area is titled 'Matrix V card database' and contains a table with columns: #, Card #, Name, Staff #, Department, Position, and Plate #. Below the table are navigation controls: 'Showing 1 to 5 of 5 entries', 'Previous', '1', and 'Next'. At the bottom right, there are two buttons: 'Retrieve Photo' (highlighted with a red box and a red arrow) and 'Export Users'.

#	Card #	Name	Staff #	Department	Position	Plate #	
1	035087	Chan Seng Leong	010	DPD R&D	Support Eng	N/A	
2	037935	Zihin Zain	020	DPD R&D	Software Eng	wuu6133	
3	000001	user1	030	DPD R&D	Software Eng	N/A	
4	000002	user2	040	DPD R&D	Support Eng	N/A	
5	016762	test1	321	DPD R&D	Support Eng	N/A	

10) Device's database synchronization (add/delete card users)

- (1) Click on Menu [Manage Database]
- (2) Click on [Synchronize Database]
- (3) Select a device
- (4) Click compare button
- (5) Select the users to add to the device
- (6) Select the users to remove from the device
- (7) Click update button to update the device's database

Device Management System

Select device

(1) → Manage Database

(2) → Synchronize Database

Synchronize Database

Select device: c18 a

Search: Search:

Matrix V's card database

#	Card #	Name
1	035087	Chan Seng Leong
2	037935	Zihin Zain
3	000001	user1
4	000002	user2
5	016762	test1

Showing 1 to 5 of 5 entries

c18 a user database

#	Card #	Name
1	222	a
2	333	e

Showing 1 to 2 of 2 entries

Previous 1 Next

Previous 1 Next

Compare

(3) →

(4) →

Device Management System

Select device

(5) → Synchronize Database

Synchronize Database

Select device: c18 a

Search: Search:

Recently added to Matrix V's database

#	Card #	Name	
1	035087	Chan Seng Leong	<input type="checkbox"/>
2	037935	Zihin Zain	<input type="checkbox"/>
3	000001	user1	<input type="checkbox"/>
4	000002	user2	<input type="checkbox"/>
5	016762	test1	<input type="checkbox"/>

Showing 1 to 5 of 5 entries

Previously 1 Next

Recently removed from Matrix V's database

#	Card #	Name	
1	222	a	<input type="checkbox"/>
2	333	e	<input type="checkbox"/>

Showing 1 to 2 of 2 entries

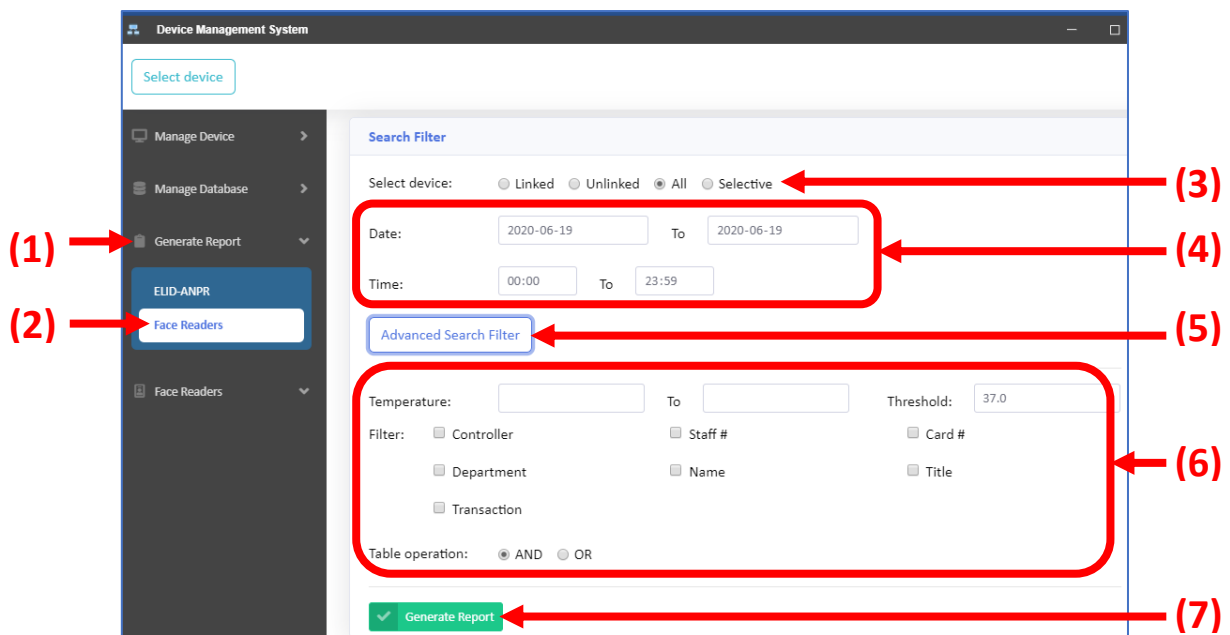
Previously 1 Next

Update

(6) →

(7) →

11) Generate Report



- (1) Click menu [Generate Report]
- (2) Click on [Face Readers]
- (3) Select the required device to generate report
- (4) Enter the filter of Date & Time
- (5) Click on [Advanced Search Filter]
- (6) Enter the required filter
 - Threshold: Temperature higher than threshold value is highlighted in report
- (7) Click on [Generate Report] to generate the report as below:

(1) (2) (3) (4)

(5)

The screenshot shows a 'Transaction Report' interface. At the top, there are four buttons: 'View', 'Export', 'Print', and 'New Search'. To the right is a search input field. Below these is a table with columns: Device, Date, Time, Card #, Name, Staff #, Department, Position, Transaction, and Temperature. The first row is highlighted in red and contains a photo of a person wearing a face mask. Below the table, it says 'Showing 1 to 19 of 19 entries' and has 'Previous', '1', and 'Next' buttons.

Device	Date	Time	Card #	Name	Staff #	Department	Position	Transaction	Temperature
CTRL001	19/06/2020	10:02	035087	Leon	035087	Marketing	Executive	0 Valid Entry	42.0
CTRL001	19/06/2020	09:32	035087	Leon	035087	Marketing	Executive	0 Valid Entry	35.9
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.3
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.5
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.5
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.5
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.5
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.0
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.0
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.4
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.1
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	35.9
CTRL001	19/06/2020	09:26	035087	Leon	035087	Marketing	Executive	0 Valid Entry	36.3

Showing 1 to 19 of 19 entries

Previous 1 Next

- (1) Click on [View] and select the table view filter if necessary
- (2) Click on [Export] to export the report in either .csv, .xls or .pdf format.
- (3) Click on [Print] to print the report.
- (4) Click on [New Search] to generate another report with different filters.
- (5) Enter the search subject to obtain the required report.