ATRIUM &
Schlage Integration

Quick Start Guide
GWE Gateway and NDE Wireless Lock

June 2018

The Installer's Choice

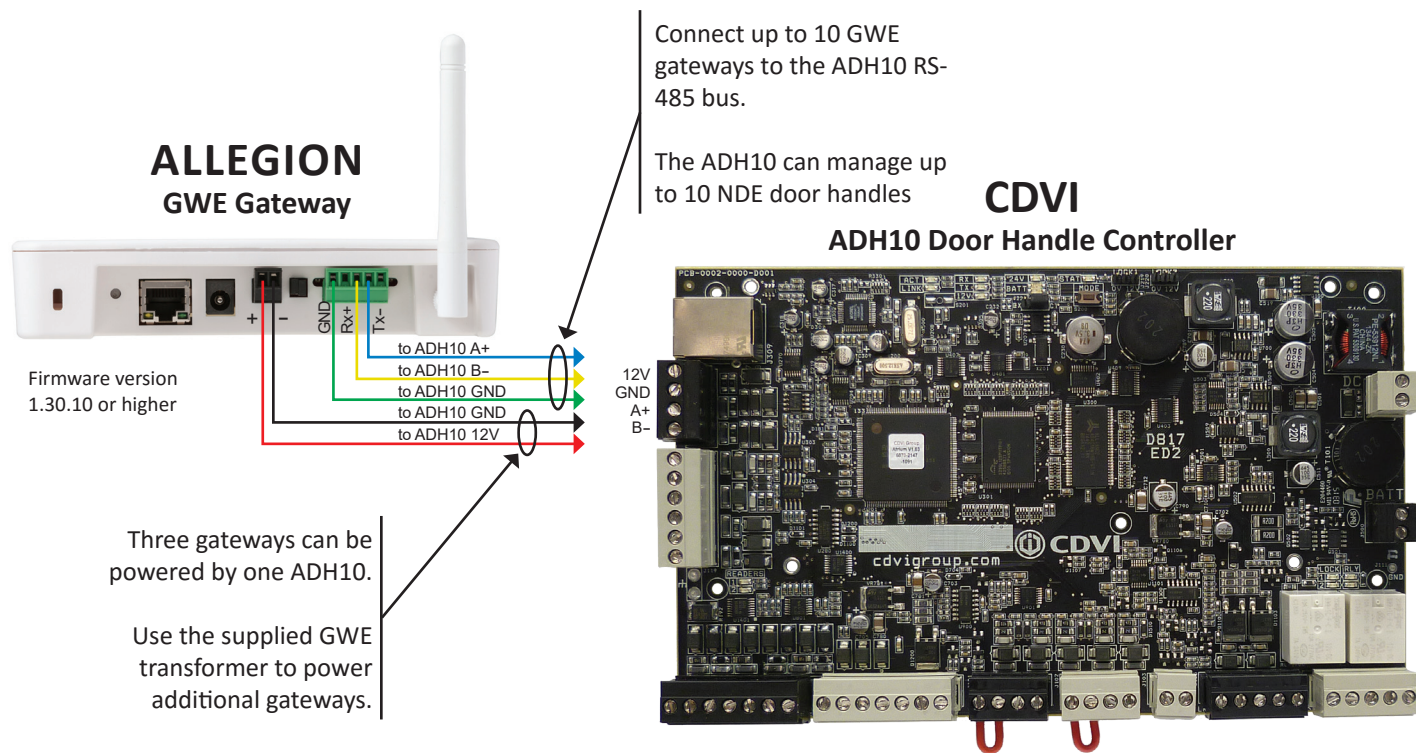## THREE SIMPLE STEPS:

1. Ensure the GWE gateway is connected to the ADH10 as shown below.

2. Follow this guide to configure gateways and wireless locks.

3. Apply power to ATRIUM's ADH10 to automatically detect GWE gateways and wireless locks.

Step 1:
Install the devices

Install the NDE wireless lock on a door then connect the GWE gateway to the ADH10 as shown below :

Connect up to 10 GWE gateways to the ADH10 RS-485 bus.

The ADH10 can manage up to 10 NDE door handles

ALLEGION
GWE Gateway

CDVI
ADH10 Door Handle Controller

Firmware version
1.30.10 or higher

GND
Rx+
Tx-

to ADH10 A+
to ADH10 B−
to ADH10 GND
to ADH10 GND
to ADH10 12V

12V
GND
A+
B−

Three gateways can be powered by one ADH10.

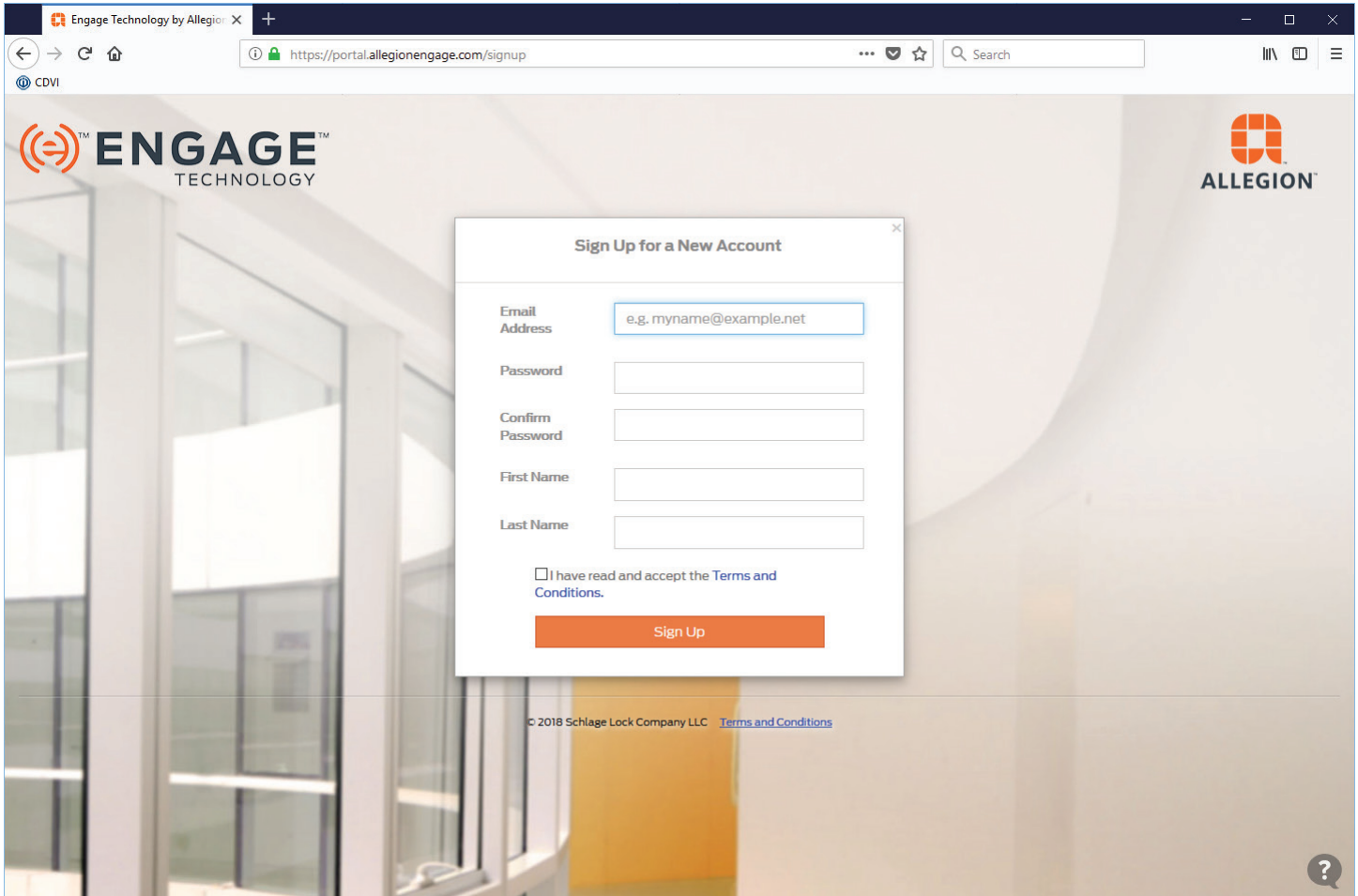Use the supplied GWE transformer to power additional gateways.

View ADH10 + GWE + NDE system architecture at the end of this document.

Step 2:
Create an ENGAGE account through Allegion's web site

Create an ENGAGE account at: **https://portal.allegionengage.com/signin**

**IMPORTANT:** Do NOT use the mobile app to create your account.

Step 3:
Adding a GWE gateway to your ENGAGE™ account

3.1:
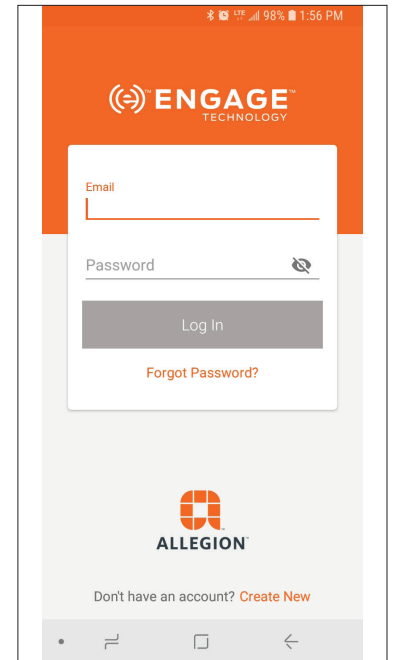Use the free ENGAGE™ mobile app to link and configure devices.

Download the ENGAGE™ mobile app from the iTunes App Store (IOS) or Google Play Store (Android)

Start the app. Create a new account by tapping on the "Create New" link at the bottom of the Log In screen or login to an existing account.
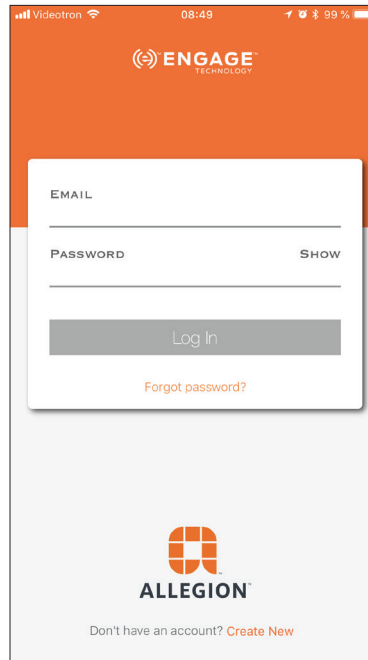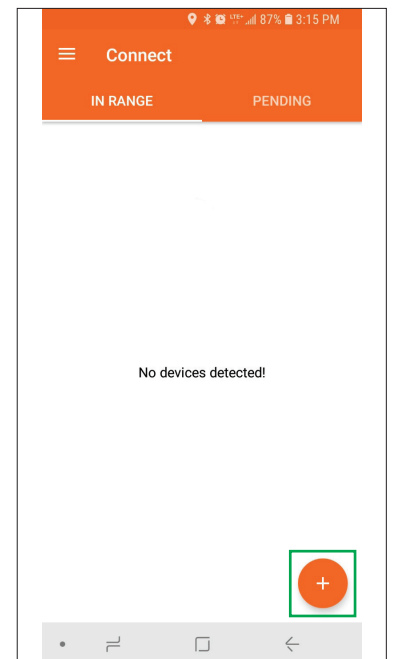
Apple (iPhone)

Android

3.2:
Touch the **"+"** sign to add a GWE or any ENGAGE™ lock device.
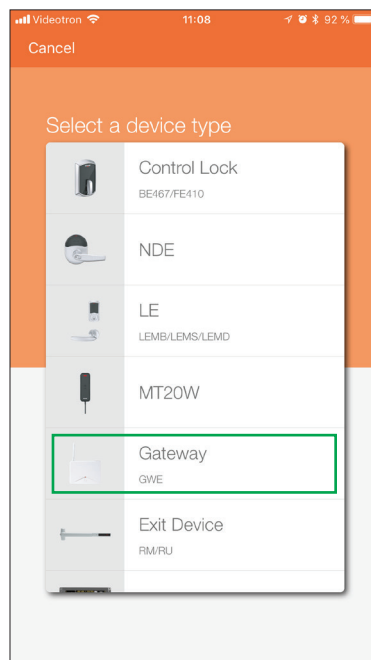
Apple (iPhone)

Android

3.3:

Touch the *"Gateway"* icon to add a GWE gateway to the ENGAGE™ account.
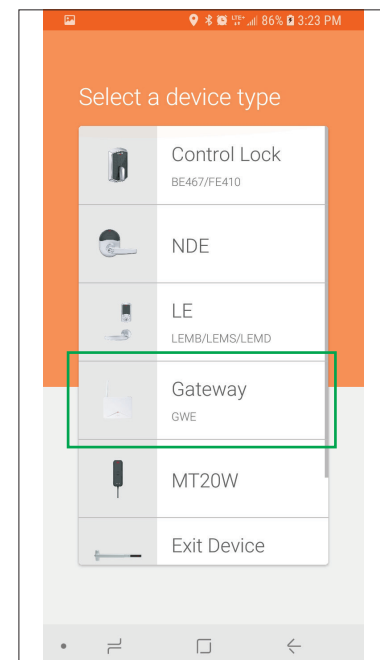

IMPORTANT NOTE:

Only a "*non-commissioned*" gateway can be added to an account.

- When powered, a non-commissioned gateway has a solid red status LED.

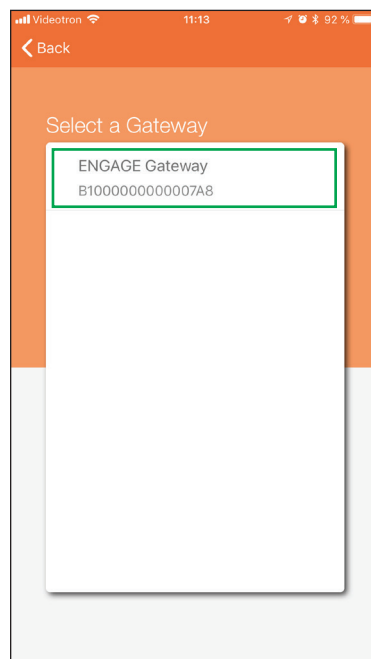- A commissioned gateway has a solid blue status LED.
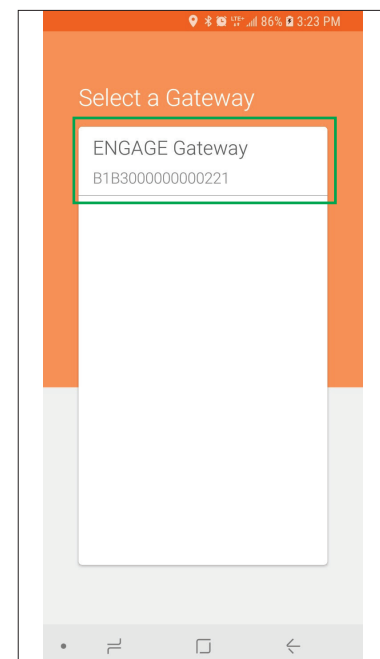

Apple (iPhone)

Android

Apple (iPhone)

Android

3.4:

Touch the GWE gateway you want to add from the list.
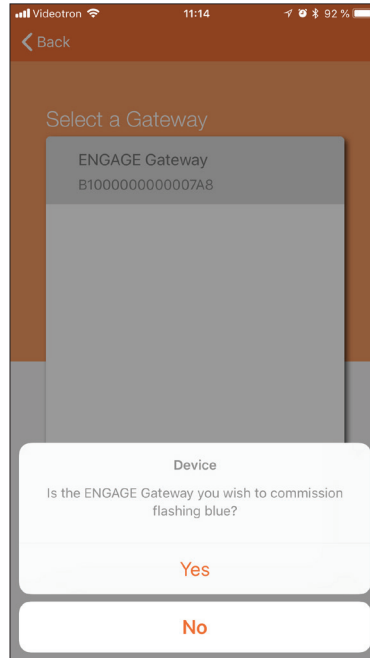
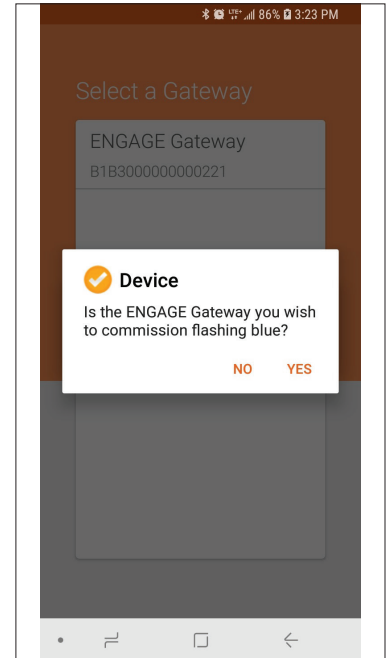**3.5:**

Touch *"Yes"* if the selected GWE gateway LED is flashing blue.
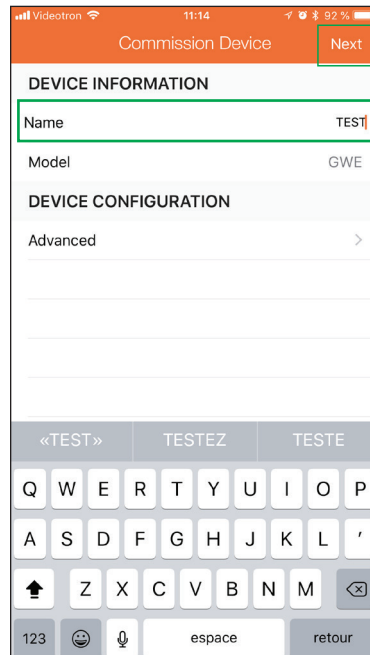
Apple (iPhone)

Android

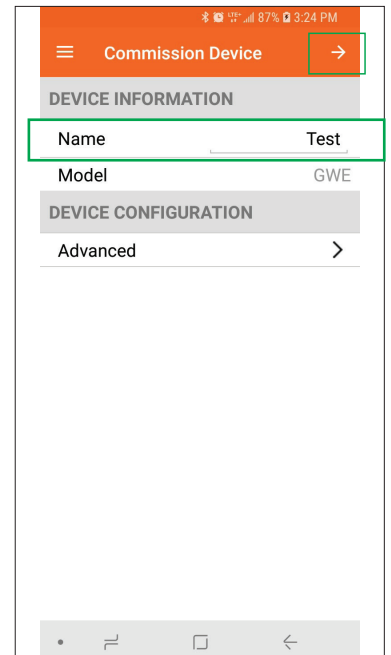
3.6:

Name the GWE gateway, then touch *"Next"*

Android:

Name the GWE gateway and touch the *" → "*

Apple (iPhone)

Android

3.7:
The GWE gateway can manage up to 10 wireless locks with one ATRIUM ADH10.

Specify the GWE RS485 address and the range of doors it will manage.

Apple : Then touch *"Save"*.
Android: Touch the *"🖫"*.

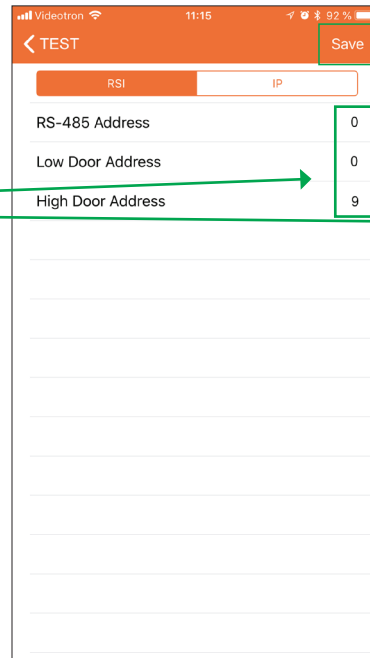Example with two GWE managing 5 doors each:

GWE #1:
RS-485 Address = 0
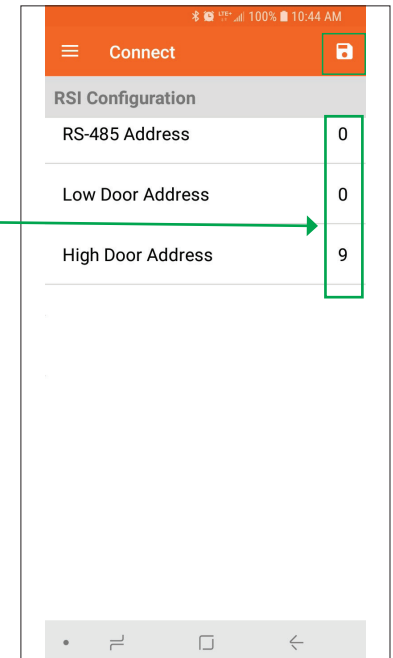Low Door Address = 0 (Door 1)
High Door Address =4 (Door 5)

GWE #2:
RS-485 Address = 1
Low Door Address = 5 (Door 6)
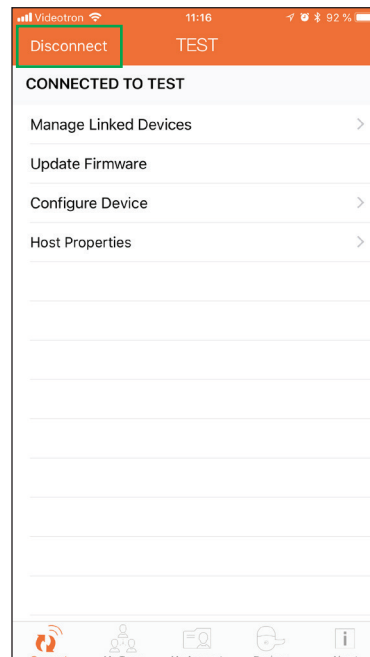High Door Address =9 (Door 10)

Apple (iPhone)

Android

3.8:
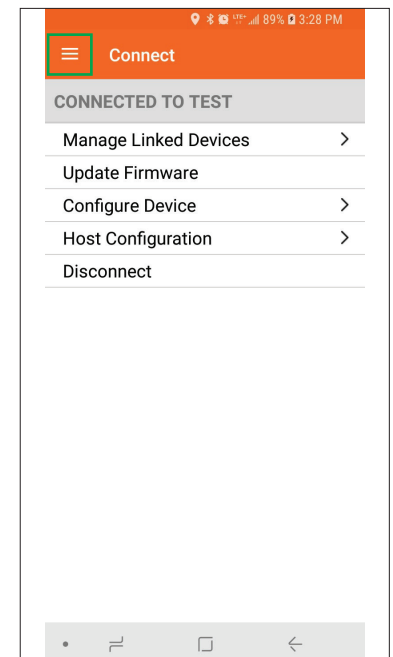Touch *"Disconnect"* to go back to the "Connect" to add locks to the ENGAGE™ account.

Android:
Touch the menu icon (▤) at the top-left and select *"Devices"*.

When prompted, touch *"OK"* to disconnect.

Apple (iPhone)

Android

Step 4:
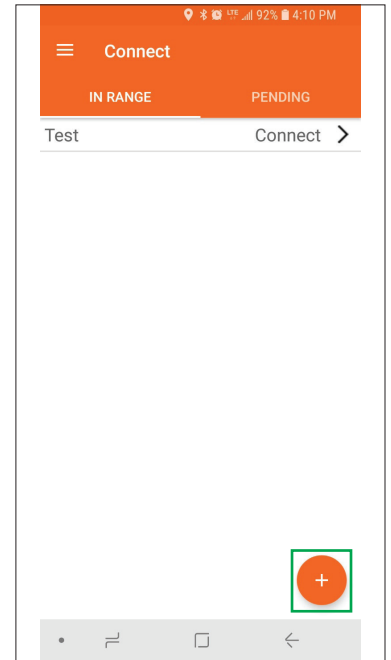# Adding a NDE wireless lock into your ENGAGE™ account

4.1:
Touch the **"+"** sign to add NDE or any ENGAGE™ lock devices.
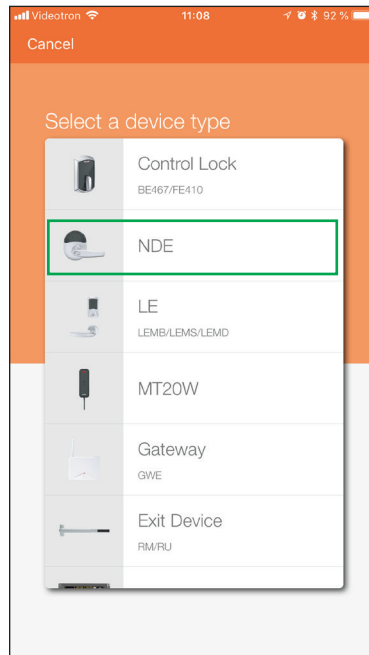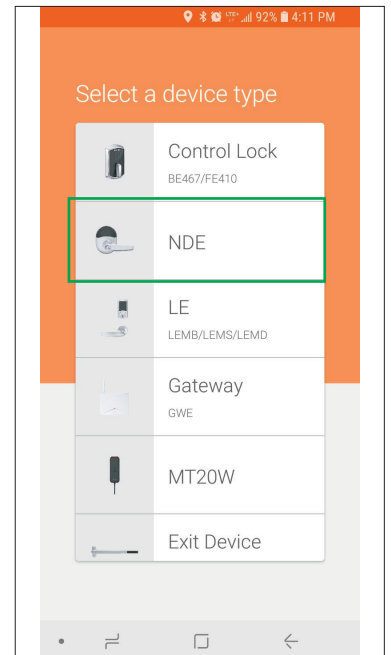
Apple (iPhone)

Android

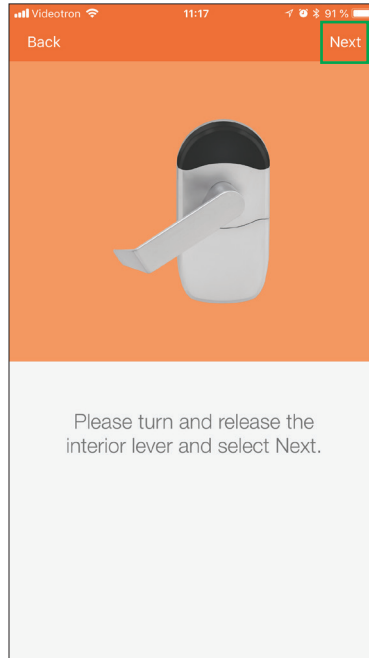**Apple (iPhone)**

Android

4.2:
Touch the **"NDE"** icon.

4.3:

Turn and release the interior lever of the NDE wireless lock.

Touch *"Next"* to view the handle being added.

Apple (iPhone)

Please turn and release the interior lever and select Next.

Android

Please turn and release the interior lever

Apple (iPhone)
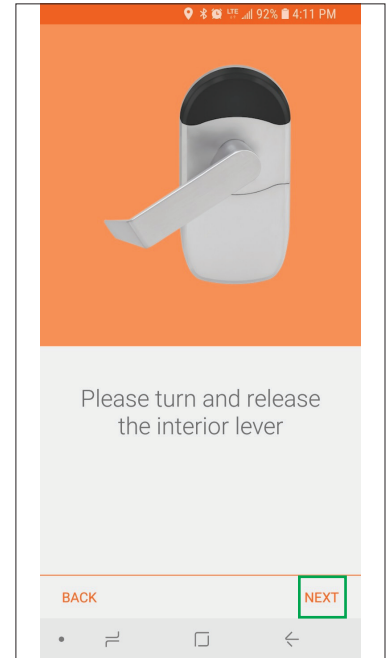
Android

4.4:

Touch the NDE lock in the list to connect to the device.

Select an NDE Lock

Schlage Lock
A100000000003A15

Select a NDE

Schlage Lock
A100000000005082
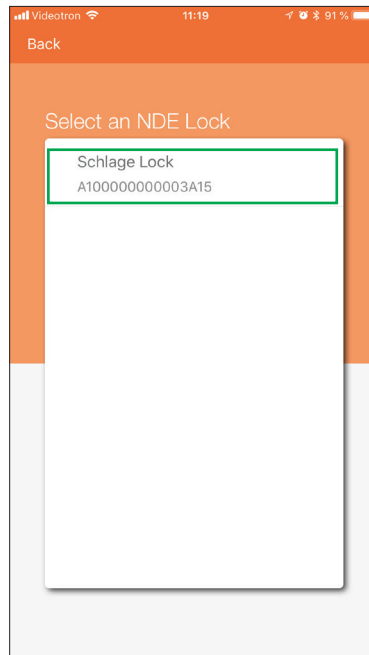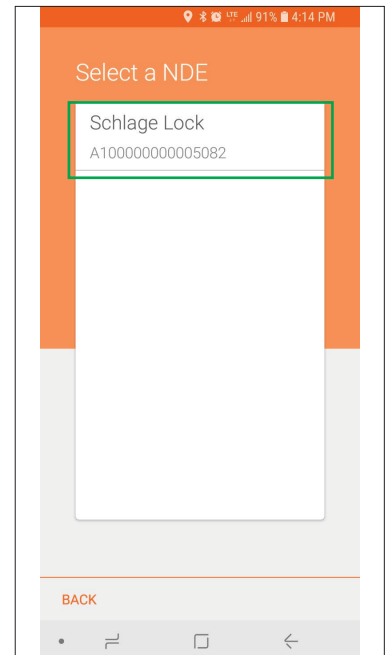
4.4a:

Apple (iPhone) : Go to step 4.5

Android: Touch *"Yes"* to confirm the LED on the handle is blinking. The GWE will connect to the device.

Android

4.4a:

Android:

The GWE will connect to the device automatically.

Android

4.5:

Type a name for your NDE lock, then touch **"Next"**.

Apple (iPhone)

Back — Next

Give the lock a name

LOCK NAME

Android

Give the device a name

Device Name

BACK — NEXT
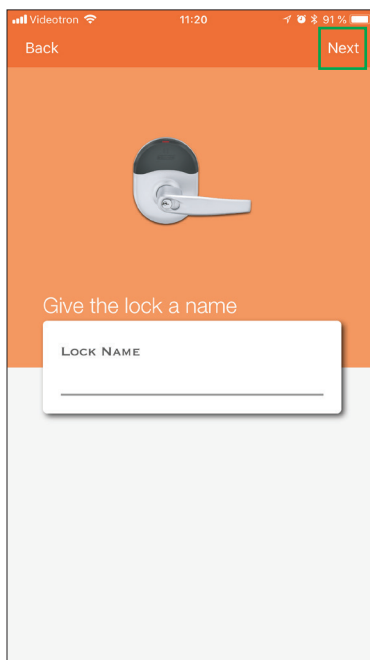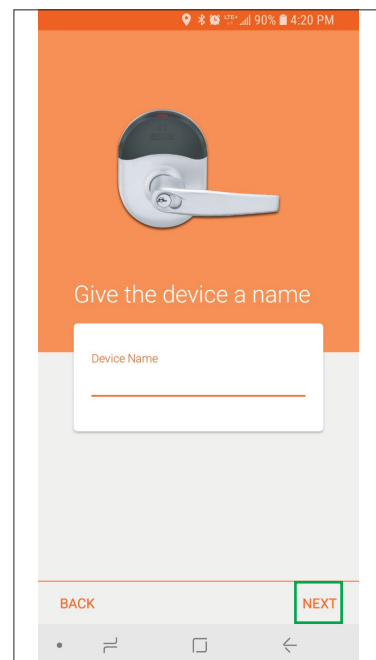
4.6:

Close the door to calibrate the door position and touch **"Next"**.

Apple (iPhone)

Back — Next

Set door to closed position and touch next

Android
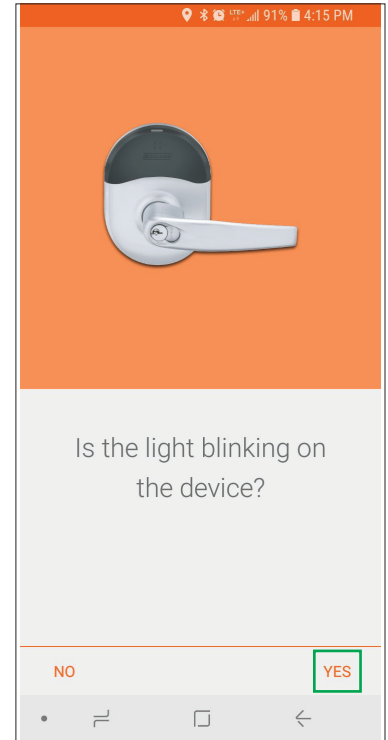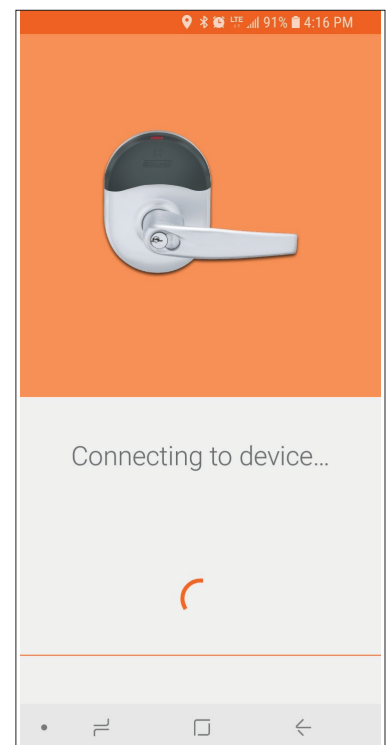
Set door to closed position and touch next

BACK — NEXT
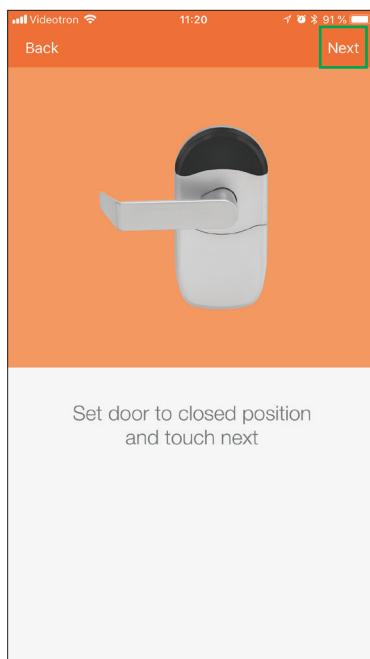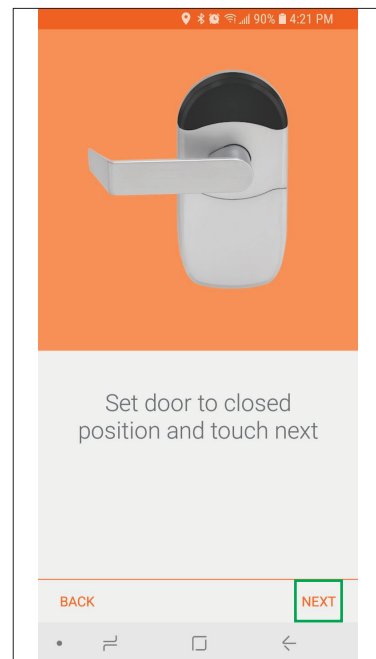
4.7:

This part is not used with ATRIUM. Touch **_"Skip"_**

Apple (iPhone)
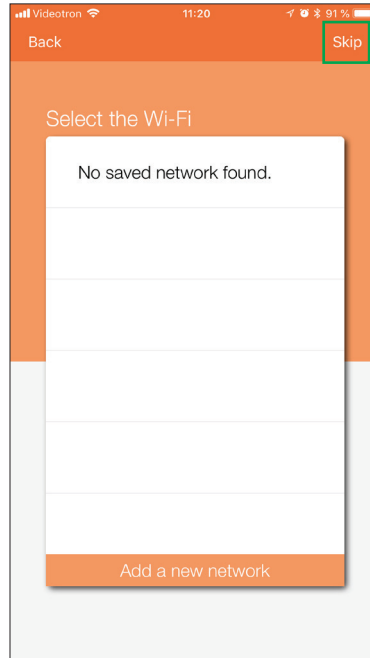
Android
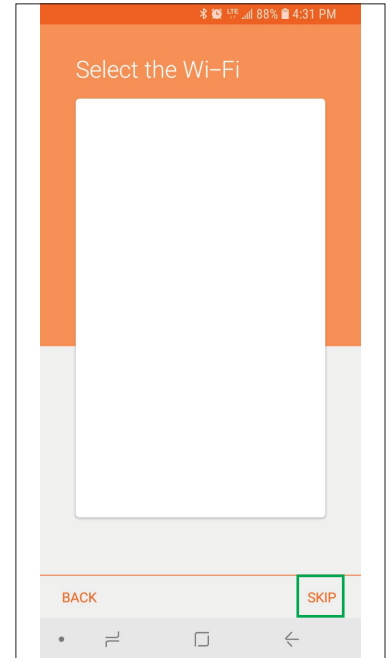
4.7a:

Apple (iPhone) : Go to step 4.8

The GWE will connect to the handle.

Android
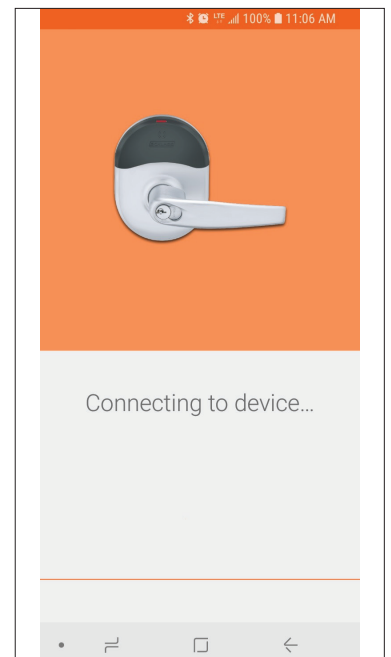
4.7b:
Android:
Touch **"Yes"** when the LED is blinking on the handle.
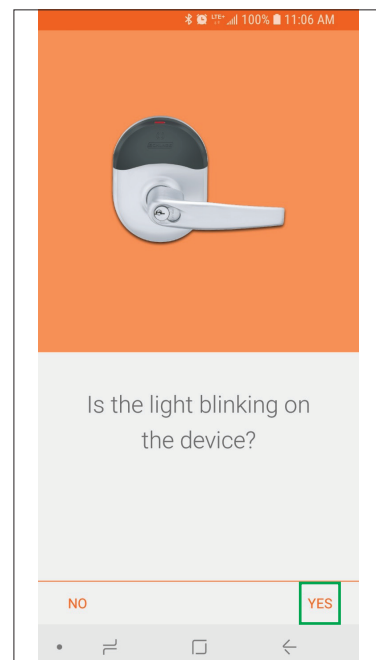
4.8:
The ENGAGE™ account is preparing your NDE lock.
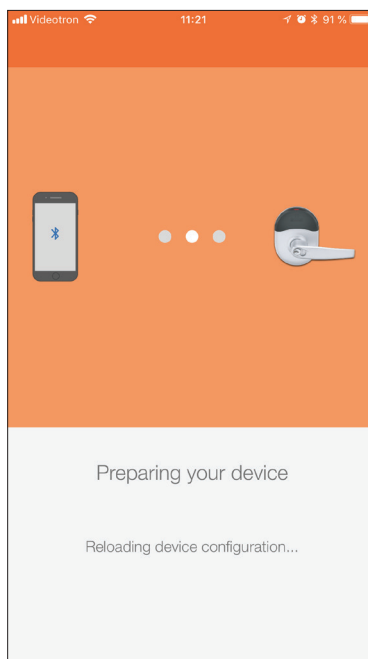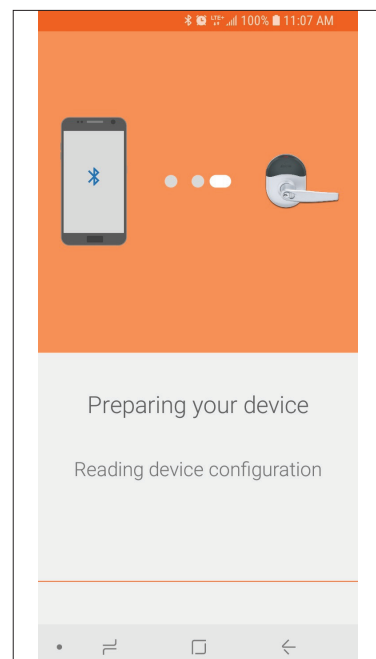
4.9:
To add more NDE, touch
"Add another NDE device".

Touch **_"Finish"_** when done.

Apple (iPhone)

Add another NDE device

Finish

Android

Add Another NDE Lock

Finish
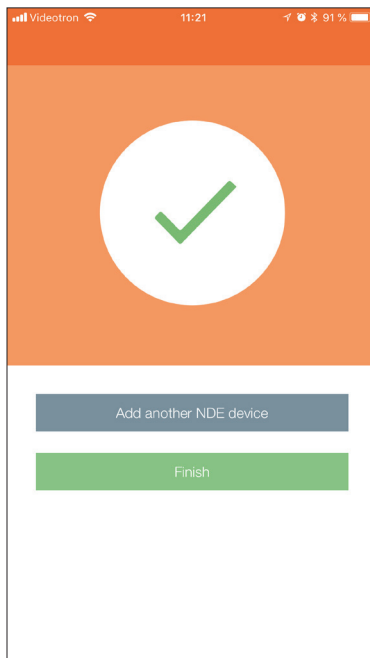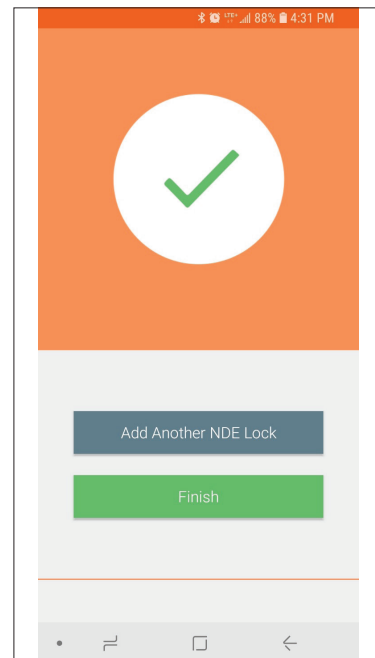
Step 5:

Linking the NDE locks to the GWE gateway.
(Use this method for any ENGAGE™ locks)

Apple (iPhone)　　　　　**Android**

5.1:
Touch the GWE to link the NDE to the gateway.
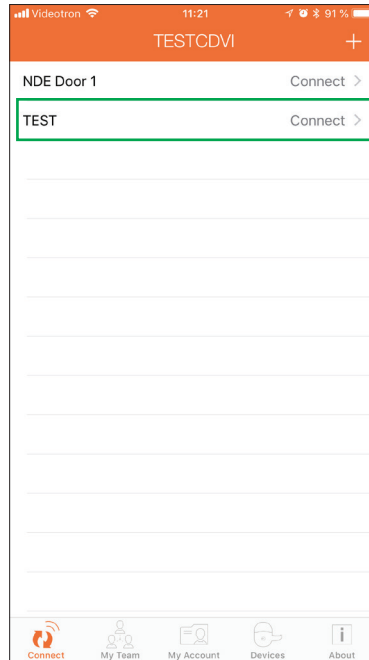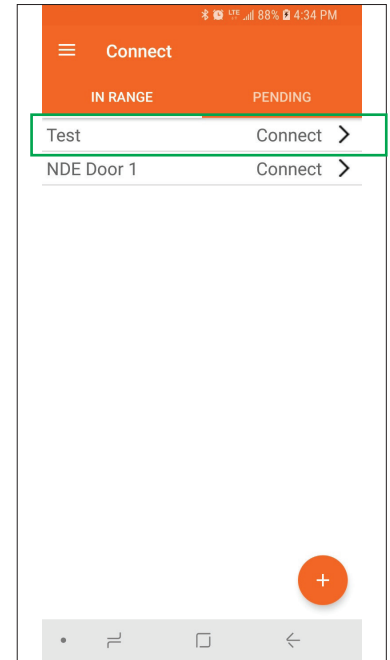
5.2:
Touch *"Manage Linked Devices"*

Apple (iPhone)　　　　　**Android**
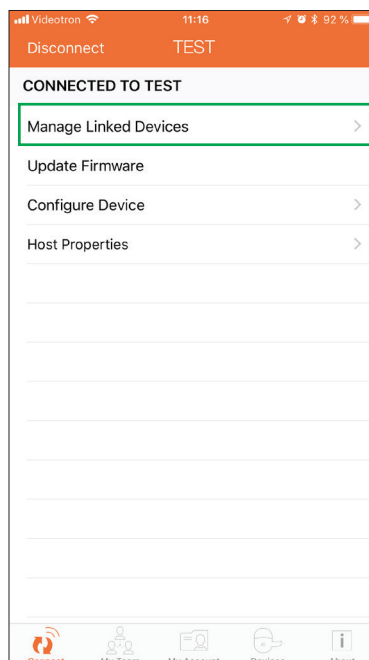
Apple (iPhone)   **Android**

5.3:
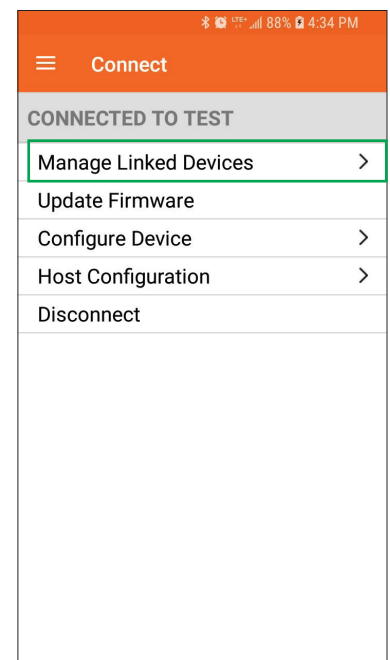
Touch the **"+"** sign.
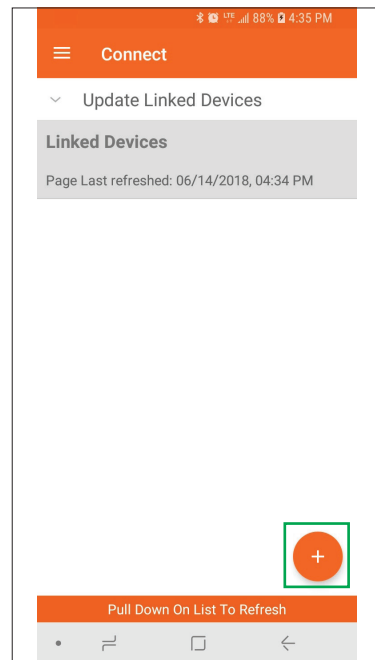
5.4:

Select which door number this NDE will be associated to in the ATRIUM system then touch **"Next"**.

Android: Touch the **" → "** at the top-right of the screen to continue.

0= Door 1

.

.

.

9= Door 10

Apple (iPhone)
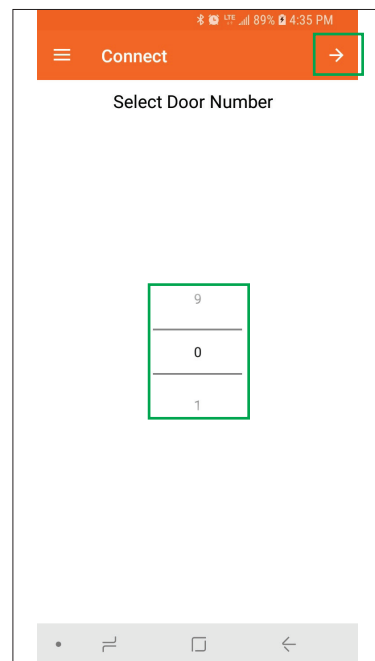
Android

5.5:

The GWE gateway LED will flash red & blue indicating it is in Link mode.

The Gateway is now in link mode.

You must now put the ENGAGE device you wish to link to the Gateway into link mode.
CTE cannot be linked in this mode.

Abort

Link Mode

Status : LOOKING

The Gateway is now in link mode.
You must now put the ENGAGE device you wish to link to the Gateway into link mode.
CTE cannot be linked in this mode.

ABORT
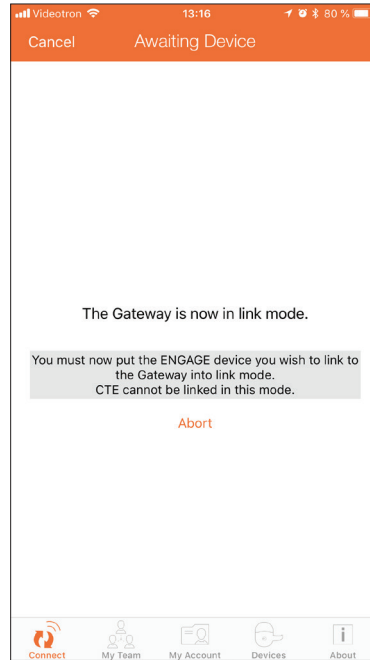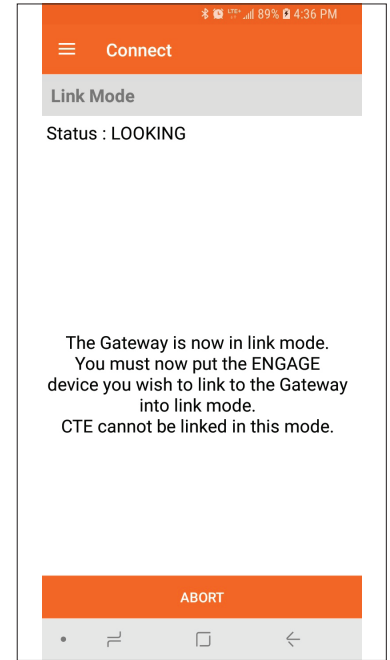
Link the NDE to the GWE by following these 4 steps:

1. Confirm GWE is in link mode. (LED will flash red & blue).

GWE gateway

2. Turn and hold the NDE interior handle

TURN & Hold

3. Swipe a compatible card at the NDE reader.
(The LED will flash green 4 times and beep 4 times).

LED

NDE
Exterior handle

4. Release NDE interior handle

Release

5.6:
Touch **"OK"** to confirm NDE lock is linked.

Apple (iPhone)
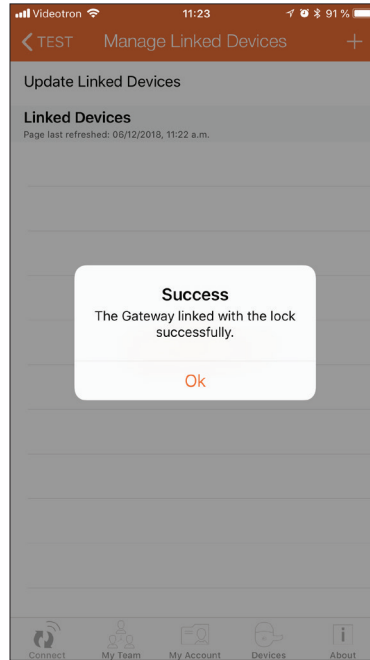
Android
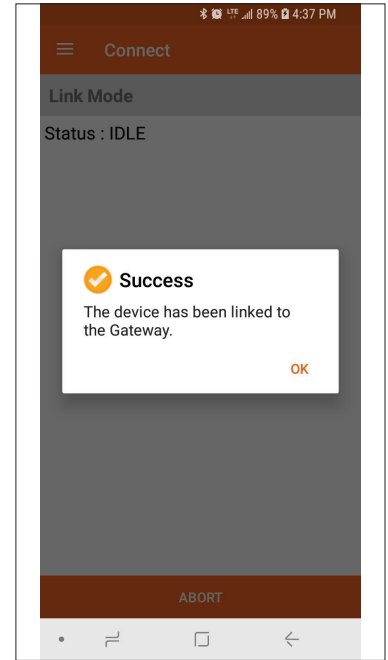
5.7:
The NDE lock is now linked to that specific GWE gateway.

Touch **"Connect"** to go back to connected devices.

Android:
Touch the menu icon (▤) at the top-left, to exit to the main menu.

Touch **"Account"** to logout.

Apple (iPhone)
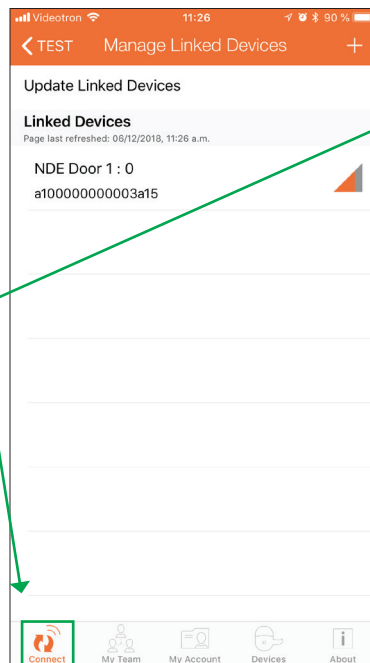
Android
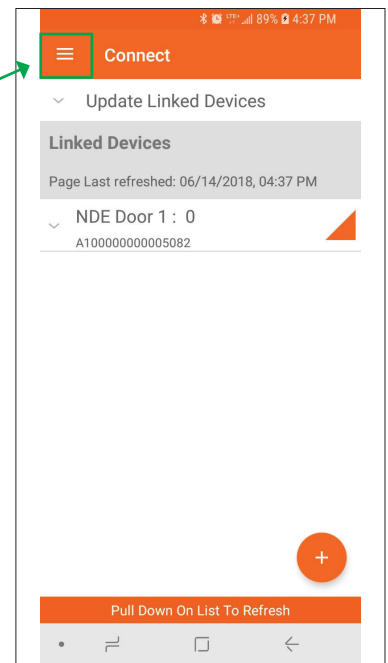
5.8:
All lock devices linked to a GWE gateway will disappear from the *"Connect"* list.

Apple (iPhone)
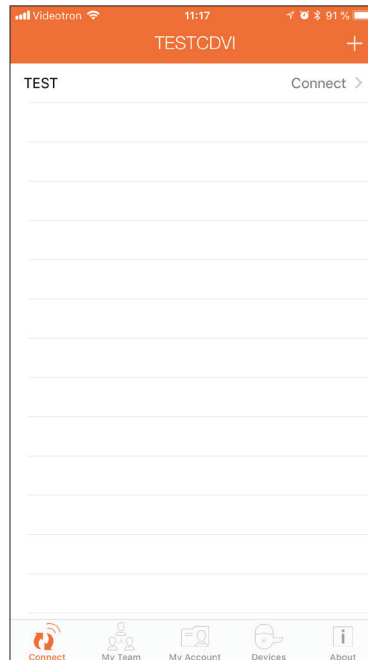
Android
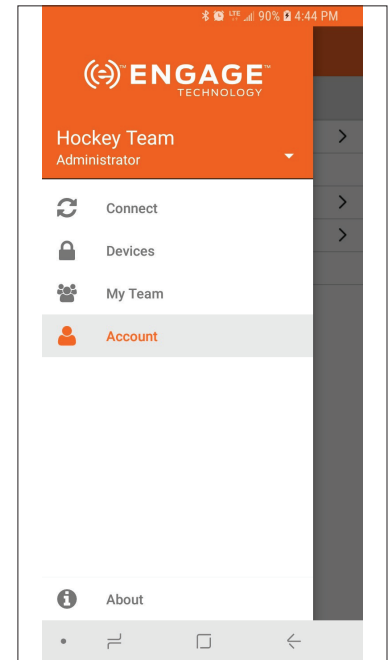
Step 6:

Login to the ATRIUM Web server or software.

Once steps 1 to 5 are completed, login to ATRIUM using its Web server or software. The ADH10 controller will automatically detect ALL GWE gateways and NDE wireless locks.

Each NDE wireless lock will be shown (displayed) as a door in ATRIUM.

Typical ADH10 & GWE wiring diagram
(1 GWE managing 10 NDE wireless locks)

ADH10
Door Handle Controller

RS485 :
Up to 4000 ft. (1220 m)

Bluetooth Low Energy communication between the GWE and NDE locks

Range Up to 30 ft. (10 m)

GWE

GWE
Address & Door Range

◀ TEST	Save
RSI	IP
RS-485 Address	0
Low Door Address	0
High Door Address	9
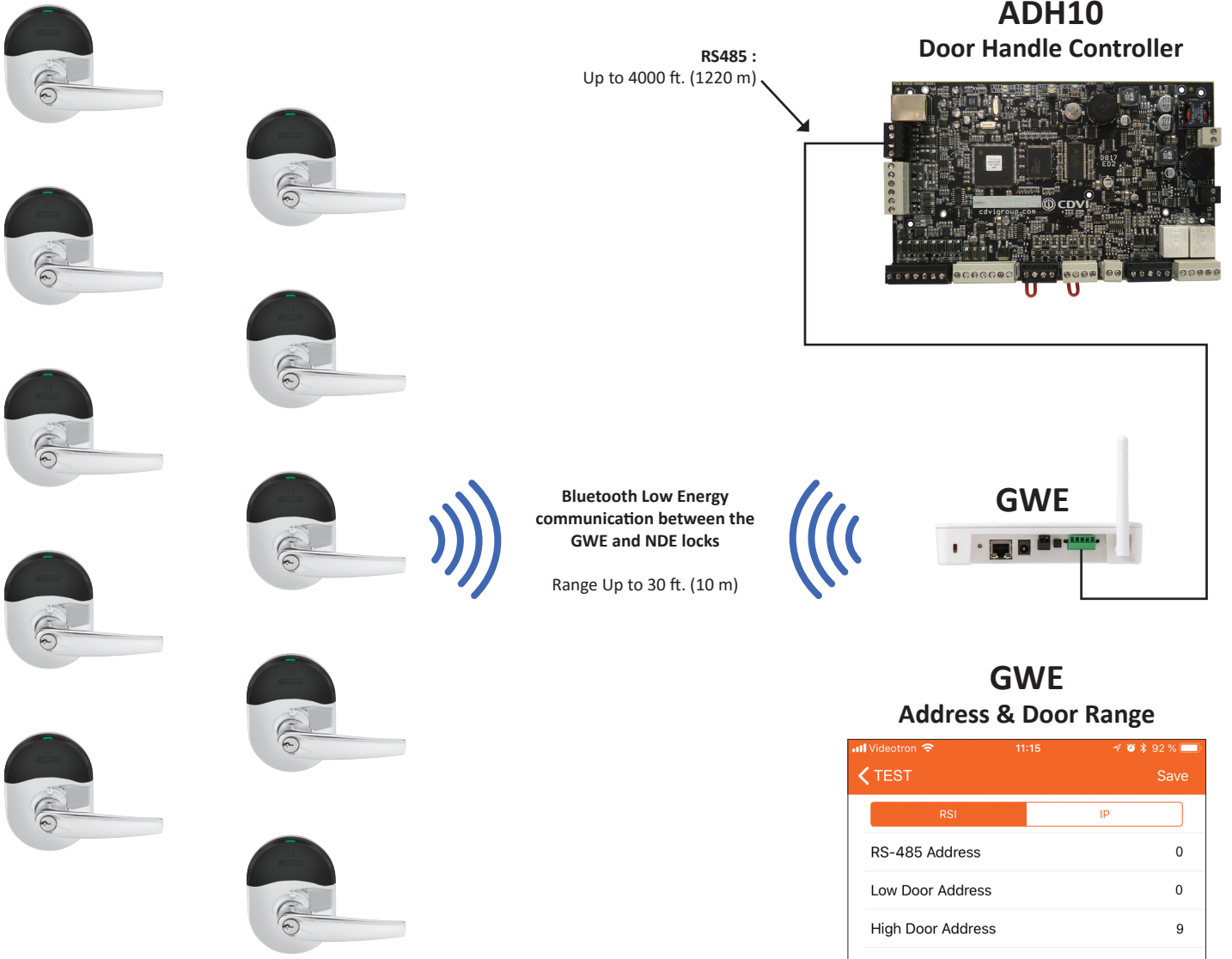
Typical ADH10 & GWE wiring diagram
(2 GWE managing 5 NDE wireless locks each)

ADH10
Door Handle Controller

RS485 :
Up to 4000 ft. (1220 m)

GWE #1
Address & Door Range

GWE #2
Address & Door Range

‧‧ll Videotron 🛜	11:15	🛩 🔋 ✲ 92 % 🔋
‹ TEST		**Save**
RSI		IP
RS-485 Address		0
Low Door Address		0
High Door Address		4

‧‧ll Videotron 🛜	11:15	🛩 🔋 ✲ 92 % 🔋
‹ TEST		**Save**
RSI		IP
RS-485 Address		1
Low Door Address		5
High Door Address		9

Bluetooth Low Energy communication
between the GWE and NDE locks
Range Up to 30 ft. (10 m)
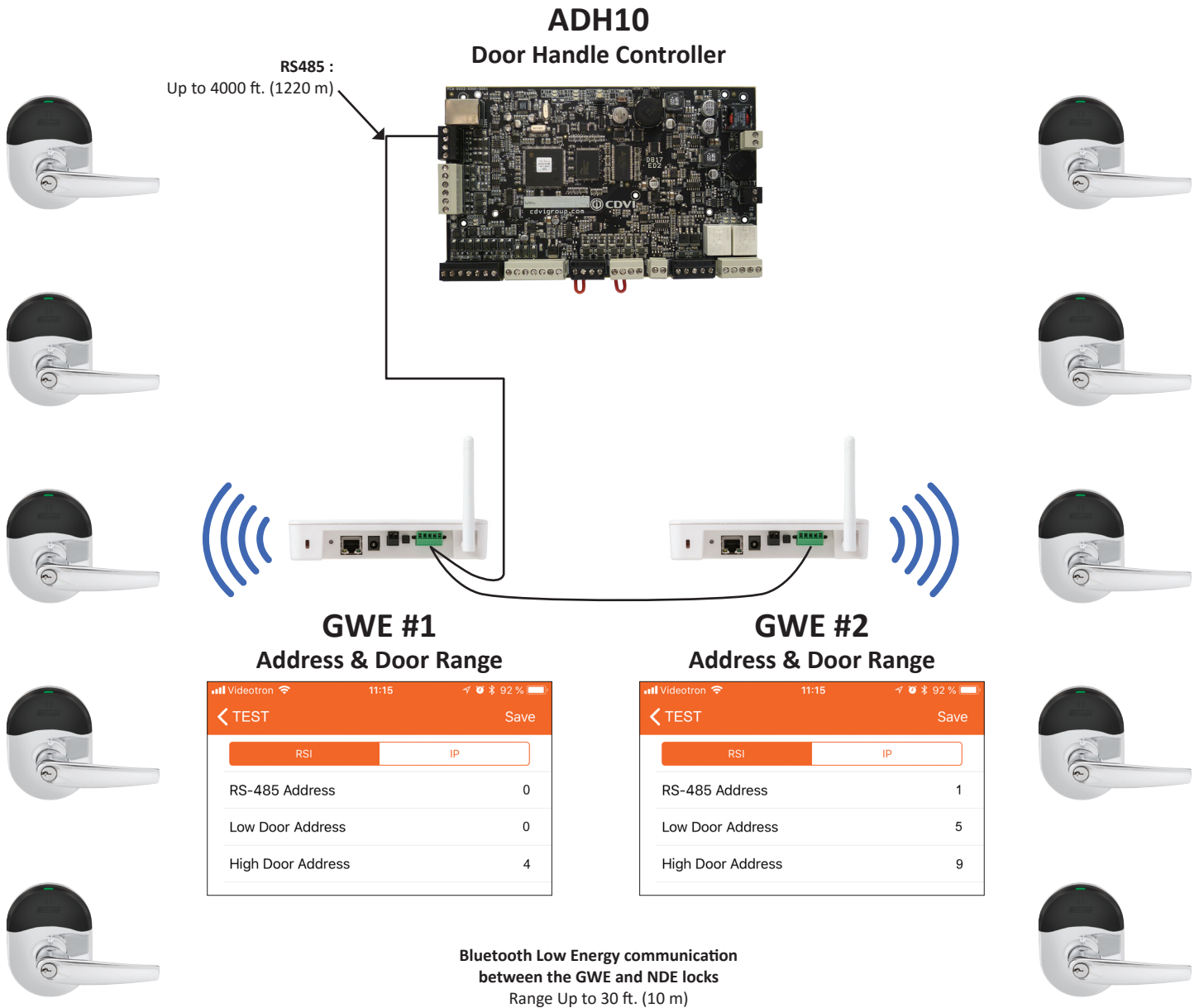
Typical ADH10 & GWE wiring diagram
(10 GWE managing 1 NDE wireless locks each)

GWE #1
GWE #2
GWE #3
GWE #4
GWE #5
GWE #6
GWE #7
GWE #8
GWE #9
GWE #10

ADH10
Door Handle Controller

RS485 BUS :
Furthest GWE can be up to 4000 ft. (1220 m) from ADH10

Bluetooth Low Energy communication between the GWE and NDE locks
Range Up to 30 ft. (10 m)

GWE #1
Address & Door Range

‹ TEST	Save
RSI	IP
RS-485 Address	0
Low Door Address	0
High Door Address	0

GWE #5
Address & Door Range

‹ TEST	Save
RSI	IP
RS-485 Address	4
Low Door Address	4
High Door Address	4

GWE #10
Address & Door Range

‹ TEST	Save
RSI	IP
RS-485 Address	9
Low Door Address	9
High Door Address	9

Technical Services USA

Phone: 1-877-671-7011
PRESS 2 For Technical Product Support.
Then Press 2 again for "Electronic Locks and Controls"

Email: Electronic_Lock_TechProdSupport@allegion.com

Technical Services Canada

Phone: 1-800-900-4734
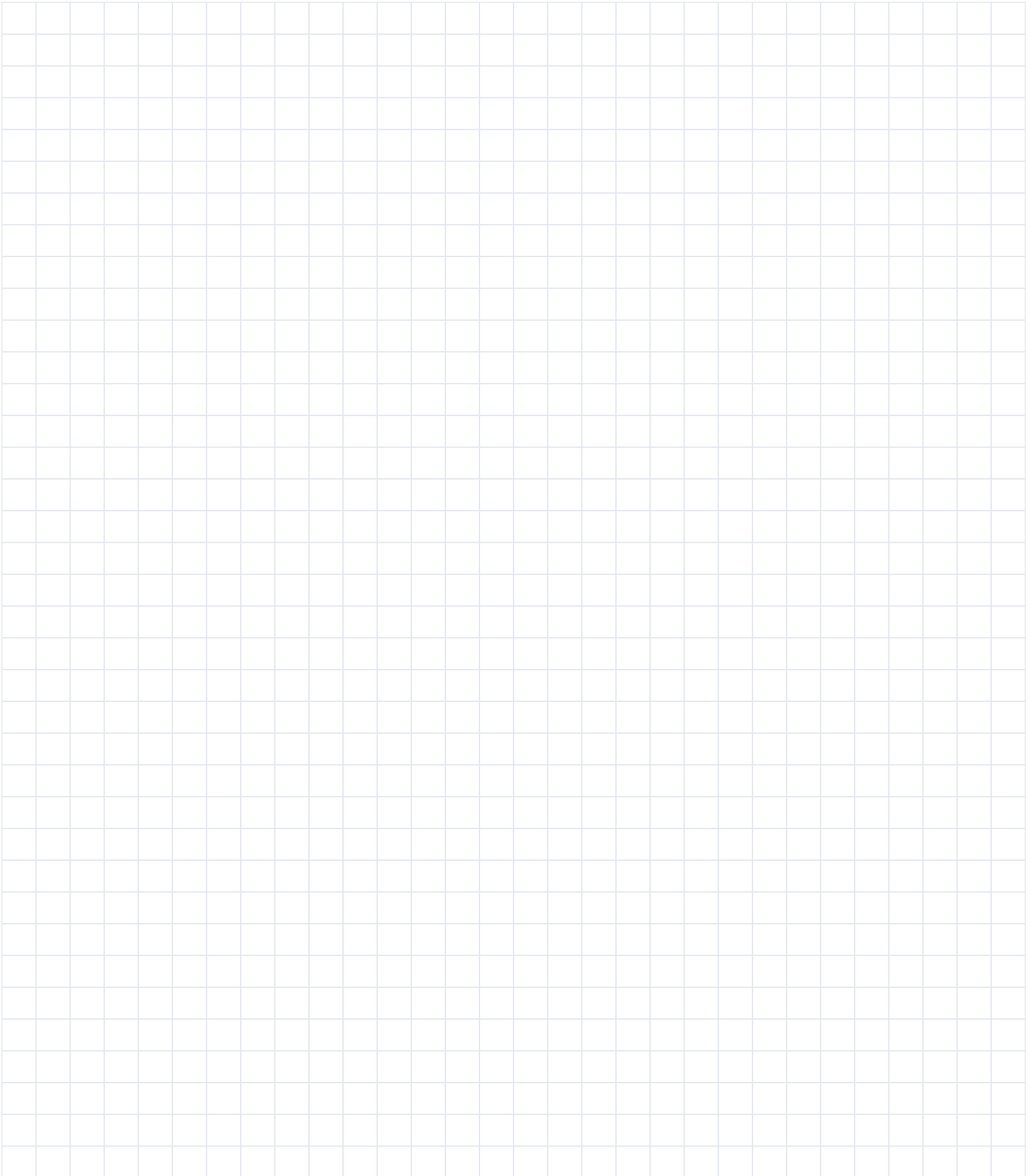**Fax:** 1-800-209-4734
Email: canada.techservices@allegion.com

Customer Care

Phone: 1-866-610 0102
Fax: 1-866-682-9590
Email: support@cdvi.ca

Available Monday to Friday, from 8am to 8pm Eastern Time.

Schlage Integration
Quick Start Guide

CDVI

The Installer's Choice