

Engage Wi-Fi Quick Start Guide



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The DNA Fusion[™] Access Control Software and SSP[™] Security System Processor use equipment that generates, uses, and radiates radio frequency energy. If not installed and deployed in accordance with the guidelines of this installation manual, they may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

The DNA Fusion[™] Access Control Software and SSP[™] Security System Processor shall be installed in accordance with this installation manual and in accordance with the National Electric Code (N.E.C), ANSI and NFPA 70 Regulations and recommendations.

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Engage Wi-Fi Lock: Quick Start Guide

This Quick Start Guide explains how to configure an Engage Wi-Fi Lock (NDE or LE) in the ENGAGE mobile app and in DNA Fusion. Before adding an Engage Wi-Fi Lock, an Engage Site needs to be configured in DNA Fusion. A site requires the system the be licensed for Engage IP doors and a "parent account" to be issued. For more information on setting up a parent account, contact Open Options Technical Support.

Installation

Engage Wi-Fi Locks are added through the Allegion ENGAGE[™] app. The ENGAGE mobile app is a free mobile application that can be found on the App Store (iOS) or the Google Play Store (Android). The app is required to configure any Engage Wi-Fi Lock. Before installing the Wi-Fi lock, ensure that an Engage Site is configured to DNA Fusion.



Step 1: Adding Wi-Fi Locks to the ENGAGE App - Add the Engage Wi-Fi lock in the ENGAGE mobile app. Once the lock is added to the app, configure the lock to the Wi-Fi network and connect the lock with the host machine. Manually connect to the Engage Driver by accessing the settings of the lock and select Update From Server (Page 3).

Step 2: Adding Wi-Fi Locks to DNA Fusion - Add the Wi-Fi lock to DNA Fusion by right-clicking the Engage Site and selecting Resync Hardware. This action will automatically add the Wi-Fi lock to DNA Fusion (Page 7).

Additional Information - The user can update the Wi-Fi configuration of the lock in DNA Fusion. Firmware updates can be implemented with a set date and time through the Engage Door Properties dialog (Page 9).

Troubleshooting - Engage Wi-Fi Lock Troubleshooting - This section explains how to troubleshoot common issues encountered during setup (Page 11).

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Adding Wi-Fi Locks to the ENGAGE App

Once the site is created, sign in to the ENGAGE mobile app and follow the steps below to add the desired Wi-Fi locks. Ensure that the mobile device is connected to the Wi-Fi network.

NOTE: Before configuring the lock, ensure that the lock is not configured for a different site. Factory Reset the Lock before adding the lock to the desired site.

- 1. **Open** the interior door panel.
- 2. **Press** and **hold** the reset button. Door LED will flash green twice.
- 3. Immediately, turn the door lever 3 times. A beep will sound after each turn of the lever.
- 1. Once signed in, **select** the 😶 icon to add a new lock.



 Select lock type (NDE or LE). This example uses a NDE lock.

| P | | UIE . | |
|---|----|----------------------------------|---|
| ÷ | _ | Exit Device | |
| | | Gateway GWE | |
| , | | LE LEMB/LEMS/LEMD | |
| | ļ. | MT20W | |
| Į | | MTB Reader MTB11/MTB15/MTKB15 | l |
| | | NDE | |
| | | | |

3. **Turn** and **Release** the interior lever. This action will "wake up" the lock.



4. Click Next.

A list of available devices that are nearby are shown, along with their serial numbers. If the desired device is not shown, repeat step 3.



- 5. **Add** the desired lock to the site.
- 6. **Ensure** that the desired lock is blinking.

The desired lock will blink if the connection is successful. The ENGAGE mobile app will instruct the user to check the lock.



7. Add a name to the Engage Wi-Fi lock.

The ENGAGE mobile app will instruct the user to name the device.



- 8. After the device is named, **click** Next.
- Select the desired Wi-Fi network. The lock network settings page opens.



10. In the lock network settings page, **establish** communication with the Engage Driver.

The Engage Driver will never automatically connect to the lock, the Wi-Fi lock needs to establish the connection.

□ If IP is selected, **enter** the IP address of the host machine (where the Engage Driver is installed).

Open Options highly recommends that IP is selected and that Secured is selected.

□ If DNS is selected, **enter** the host machine's DNS name.

| | E Test | | |
|---------------|-----------------|-------|---|
| WI-FI CONF | IGURATION | | |
| Wi-Fi | | | - |
| | | | |
| Display/Save | e Network List: | | |
| Network (SS | ID): | GBNET | - |
| Security: | | WPA2 | ~ |
| Password: | | | |
| | Show password | | |
| Test Wi-Fi Co | onnection | | > |
| HOST CONI | IGURATION | | |
| 🖲 IP | DNS | | |
| Server: | 192.168.1.100 | | |
| Security: | | | |
| Secured | O Unsecured | | |
| | | | - |
| | | | |
| | | | |
| | | | |
| | Connected | | |

- 11. To manually force a connection with the Engage Driver, **connect** to the lock via the ENGAGE mobile app.
- 12. Click Settings.
- 13. Select Update From Server.

This process can take a minute or so and you'll see various status messages.

- Connecting to server...
- Update from Server Initiated...
- Sync Successful...

| \equiv NDE Test | 8 |
|-------------------------|-------------|
| DEVICE INFORMATION | |
| Name | NDE Test |
| Lock Function | Storeroom 👻 |
| Model | NDE |
| GENERAL | |
| Wi-Fi | gbnet > |
| Update from Server | |
| Calibrate Door Position | 1 |
| Run Diagnostics | |
| Advanced | > |
| DEVICE CONFIGURATIO | N |
| Beeper Enabled | |
| Relock Delay | 3 sec |
| ADA Relock Delay | 30 sec |
| Propped Door Delay | 20 sec |
| Power Fail Mode | Secure 👻 |
| | |
| Conr | nected |

NOTE: Ensure that the correct firewall settings are in place to allow the following ports to be opened: 80, 443, 8080, 8081. Additionally, this application currently cannot share these ports with IIS or any other application. From an Admin command prompt, run the command below to see if any of the ports listed are taken.

Command: netsh interface ipv4 show excludedportrange protocol=tcp

Adding Wi-Fi Locks to DNA Fusion

Once the Wi-Fi lock is set up in the ENGAGE mobile app, the Engage Driver can synchonize with the app to add the newly commissioned lock to the DNA Fusion database. Follow the steps below to add the Wi-Fi locks to the Engage Site in DNA Fusion.

- 1. **Right-click** on the Engage Site in DNA Fusion.
- 2. Select Resync Hardware.

The resync process may take 30-60 seconds. If the Engage Site node is expanded, collapsing the node may decrease the resync time.



Once the lock has connected and is configured as a Wi-Fi lock, the lock can be added to access levels. The Wi-Fi lock sends configuration and cardholder data to the Engage Driver once a day by default. The user can control the frequency via the Wifi Callback Frequency (1-30) in the Engage Door Properties.

To open the Engage Door Properties:

- 1. **Right-click** on the desired Engage Wi-Fi Lock.
- 2. Select Properties.

The Engage Door Properties dialog opens.

| 🍘 Engage Door Pro | operties 💷 🗙 |
|-------------------|---|
| General | Engage Advanced Properties |
| Advanced | |
| Alarm Config | Held |
| | Held Time (1-255): 10 🗢 ADA Held Time (1-255): 15 🜩 |
| | Strike |
| | Strike Time (1-30): 3 👄 |
| | Extend |
| | Extended Mode: Store Room |
| | Prox Card |
| | V HID/Prox Casi Disabled T AWID |
| | Smart Card |
| | iClass Format: Disabled |
| | MiFare CSN MiFare Plus MiFare |
| | iClass ICSN 40 bit Viclass CSN |
| | Miscellaneous |
| | Reader Sensitivity: Normal V Battery Fail State: As Is V |
| | Blink LED When Locked Private Rapid Blink 📝 Disable DPOS Audit |
| | Beeper Enable |
| | WiFi |
| | Call Back Freq. (1-30) Hours: 1 🖨 Immediate WiFi Alert: Enabled 🔹 |
| | WiFi Update |
| | WiFi Update Start Time: No Date 🔹 🗘 |
| | SSID Name: Security: WPA2 (Personal) * |
| | User Name: Password: |
| | |
| | OK Cancel |
| | Cander |

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Additional Information

The Engage Wi-Fi lock has additional settings that may be helpful once the lock is configured.

Wi-Fi Update

There are situations where the Wi-FI connection information needs to be changed due to infrastructure changes or by policy. This can always be changed by connecting to each Wi-Fi lock with the ENGAGE mobile application and changing the locks parameters. For systems with a large number of Wi-Fi locks, the process of changing the parameters for each lock can be cumbersome. This issue can be alleviated in the Engage Door Properties.

| Engage Door Properties | å | | | œ | × |
|------------------------|---------------------------------|---------------------|--------------------------------------|--------------------|----|
| General | Engage Advanced Propertie | | | | |
| Advanced | | 3 | | | _ |
| Alarm Config | Held | | | | |
| | Held Time (1-255): | 10 🜩 | ADA Held Time (1-255): | 15 🜩 | |
| 1 | Strike | | | | |
| | Strike Time (1-30): | 3 🜩 | | | |
| 1 | Extend | | | | |
| | Extended Mode: | Store Room | • | | |
| 1 | Prox Card | | | | |
| | HID/Prox Casi | Disabled | • | AWID | |
| 3 | Smart Card | | | | |
| | iClass Format: | Disabled | * | | |
| | MiFare CSN | MiFare Plus | | MiFare | |
| | iClass ICSN 40 bit | ✓ iClass CSN | | Mifare NOC | |
| 1 | Miscellaneous | V ICIUS COIL | | | |
| | Reader Sensitivity: | Normal | Battery Fail Sta | ite: As Is | |
| | Blink LED When Locked | Private Rapid Blink | | Disable DPOS Audit | t |
| | Beeper Enable | | | | |
| | WiFi | | | | |
| | Call Back Freq. (1-30) Hours: 1 | ÷ | Immediate WiFi Alert: E | nabled | |
| | WiFi Update | | | | |
| | WiFi Update Start Time: | No Date 🔹 | ÷ | | |
| | SSID Name: | | Security: WPA2 | (Personal) 🔹 | |
| | User Name: | | Password: | | |
| | | | | | |
| | | | | OK Canc | el |

In the Engage Door Properties, the WiFi Update section is used to change the Wi-Fi settings of the Engage Wi-Fi Locks and set a start time for the update. This prevents having to connect to each lock individually through the ENGAGE mobile app.

NOTE: In a scenario where the password for the Wi-Fi network changes often, the Wi-Fi settings can be adjusted in the WiFi Update section of the Engage Door Properties dialog. The start time of the WiFi update can be set by configuring the WiFi Update Start Time.

Firmware Upgrades

Each version of the Engage Driver ships with the latest supported firmware files. To upgrade the firmware on Wi-Fi locks select one or more in the Hardware browser.

1. **Right-click** and **select** Firmware Upgrade.

| Image Hardware 07/26/20 Image Hardware | | |
|--|---|--------------------------|
| | | Properties |
| → → → → → → → → → → → → → → → → → → → | | Firmware Update |
| | | Trace History |
| 🗄 💿 Floor Groups | | Who Has Access |
| | | Who does not have access |
| 🖃 🦓 Users | Q | Where Used |

- 2. In the Firmware Update dialog, **adjust** the date and time to implement the firmware update.
- 3. Select Ok.

For special cases that require the firmware to be rolled back to a previous version, beta firmware can be provide for the user to enter into the Firmware URL.

| Firmware Update | | | | × |
|---------------------|-------------------------------------|-----------------------------|----------|----|
| WiFi Firmware Updat | e | | | |
| | Implement Firmware Update On: | ✓ Jul /26/2020 11:32:09 * + | | |
| Firmware URL: | Special case - Contact Open Options | support. | | |
| | | | OK Cance | el |

If you select different door types (i.e. NDE and LE) the option to use the URL is disabled because each lock type has their own firmware files.

| (| Firmware Update | | | | Х |
|---|-----------------------|--------------------------------------|-----------------------------|----------|----|
| I | – WiFi Firmware Updat | te | | | |
| | | Implement Firmware Update On: | ☑ Jul /27/2020 08:54:33 ▼ ÷ | | |
| | Firmware URL: | Unavailable due to multiple door typ | pes selected. | | |
| L | | | | DK Cance | el |

Engage Wi-Fi Lock Troubleshooting

| ENGAGE [™] Mobile App Error Scenario | NEW MOBILE APPLICATION MESSAGE | Possible Corrective Action or Suggestions |
|--|---|---|
| Successful Download | Success gets reported, not an error | No action needed. |
| Wi-Fi Database Download/Firmware Download | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 01) | The Wi-Fi chip failed to turn ON. The Wi-Fi chip will not turn on if battery power is low. Check that the battery levels are above 4.6 volts DC. Try again. If the error repeats with new batteries, the product could have a defect. |
| Note: Database download trigger from MAPP always follows a audit upload: | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. | Wi-Fi self-test fails when Wi-Fi is set to OFF. Battery level could be below 4.6 volts. Check batteries and set Wi- Fi to ON. |
| • Wi-Fi chip not initialized by lock application. | (ref. code 02) | |
| Wi-Fi Self test failed. | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, | Wi-Fi radio on the NDE was already |
| • Wi-Fi chip failing to power on. | contact Technical Support at (877) 671- 7011. | busy. Wait for the AMBLE LED to go out before trying again. |
| • Wi-Fi busy when the | (ref. code 03) | |
| download trigger was initiated by MAPP. | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. | The Wi-Fi chip will not turn onif the battery power is low. Check the battery level is well above 4.6 Vdc. Try again. |
| | (ref. code 04) | |
| Wi-Fi Database Download/Firmware Download | Error - Failed to connect to access point. Confirm the Wi-Fi network SSID and Password and try again. | Wireless router name (SSID) might |
| Note: Database | (ref. code 06) | have a typo. Wi-Fi Password might |
| download trigger from MAPP always follows a audit upload: | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (8877) 671-7011. | have an error. Check security type, SSID and password for errors, and try again. |
| Configuration failure. | (ref. code 45) | |
| • Trigger initiated without commissioning the lock. | Error - Tamper detected. Install the | Lock Tamper issues, check the tightness of the battery cover to |
| • Downloading failed to trigger as the tamper is active. | battery cover and try again. | eliminate tamper indication. Check the small black switch is not broken. |

The table below explains the errors that frequently appear and may create problems.

| | Error - Failed to connect to access point. Cofirm the Wi-Fi network SSID and Password and try again. (ref. code 07) | Wireless Tamper issues, check the tightness of the battery cover to eliminate tamper indication. Check the small that the small switch is not broken. |
|--|---|---|
| | In OEM210 Mode: Error - Failed to connect to host server. Confirm Host Configuration settings and try again. An active internet connection may be required to reach the host server. (ref. code 10) For Engage Managed Site: Error - Failed to connect to host server. Confirm the Wi-Fi network is connected to the internet and try again. (ref. code 10) | The device connected with Wi-Fi to the wireless router (SSID), but failed to connect to the ENGAGE server (host) so the internet could be down (ISP problem), server could be down or if a partner account the WB address for the lock to connect with could have an error. (Use a laptop or smartphone entering the same SSID and PW for the wireless and browse to the server/host to confirm wireless and internet connectivity. the ENGAGE managed server can be found at api.allegionengage.com both should results in a web page when using a laptop and browser. |
| Wi-Fi Database Download/Firmware Download Note: Database download trigger from MAPP always follows an audit upload: Failures during connection to Wi-Fi Access Point or Host | Error - DNS Failure. Failed to resolve host IP. Confirm Host Configuration settings and try again. (ref. code 11) | DNS error means the webpage request was not found by the network, DNS look up server. There could be a link typo error commissioned in the NDE, or a DNS server blocking, or firewall blocking. The ENGAGE managed server can be tested and found at api.allegionengage.com and portal. allegionengage.com. Both should result in a web page when using a laptop and browser over the identical Wi-Fi network the lock is trying to use. |
| server. | Error - The access point was not found. Confirm the Wi-Fi network SSID and signal availability and try again. (re. code 54) | The access point (AP) name entered for the lock to use as a wireless router was not found. Could be signal strength, typo in the SSID, or the wireless router is off. Use a loaptop or smart phone toconfirm the signal strength and connection to the SSID (wireless router). |
| | Error - Failed to connect to access point. Confirm the Wi-Fi network User Name and Password and try again. (ref. code 55) | Failed to connect to the access point (AP), for either weak signal or a ID and password error. Check the ID user name, and password for typos by entering it correctly. Use a laptop or smart phone to confirm the signal strengthand connection to the SSID. |
| | Error - TLS certificate validation failure. Please try again. | The OEM partner must have made an error loading the TLS certificates during commissioning, or this lock is going to the wrong host server address. Delete the lock form the site, FDR (Factory Default Reset) the lock and start over commissioning the Lock to the site. |

| | | 1 |
|---|---|---|
| Wi-Fi Database Download/Firmware Download (Cont.) | | |
| Note: Database download trigger from MAPP always follows an audit upload: | Error - Failed to connect to access point. Confirm the Wi-Fi network Password and try again. (ref. code 53) | Check security type setting in the lock Wi-FI set up and look for typos in the SSID name and password. |
| • Failures during connection to Wi-Fi Access Point or Host server. | | |
| | Error - Lost connection to host server during audit upload. Please try again. (ref. code 21) | An internet drop out or a server drop out. Try again. |
| | Error - Data handling failure. Please try again. (ref. code 22) | Data handling errors, the data was larger than expected. Cancel, disconnect, and wait for AMBER LED to switch off and try again. |
| | Error - Buffer failure during download. Please try again. (ref. code 23) | Internal buffer errors. Cancel, disconnect, and wait for AMBER LED to switch off. Check battery voltage and try again. |
| | Error - UART read failed. Please try again. (ref. code 24) | Internal error. Cancel, disconnect, wait for AMBER LED to switch off. Check battery voltage and try again. |
| | Error - UART read failed. Please try again. (ref. code 25) | Internal error. Cancel, disconnect, wait for AMBER LED to switch off. Check battery voltage and try again. |
| Failures During the Download | again. for AMBER LI | Internal error. Cancel, disconnect, wait for AMBER LED to switch off. Check the battery voltage and try again. |
| | Error - Flash erase failed. Please try again. (ref. code 27) | Internal error. Cancel, disconnect, and wait for the AMBER LED to switch off. Check battery voltage and try again |
| | Error - CR check failure. Please try again. (ref. code 28) | Something disrupted the FW download. Could be RF signal noise, internet drop out, timeout, etc. Try again, if it continues switch to AP mode. |
| | Error - Audit framing error. Please try again. (ref. code 38) | Something disrupted the FW download. Could be RF signal, internet drop out, timeout, etc. Try again, if it continues switch to AP mode. |
| | Error - Failed to create HTTP header. Please try again. (ref. code 39) | Something disrupted the FW download. Could be RF signal, internet drop out, timeout, etc. Try again, if it continues switch to AP mode. |
| | Error - No response from host server on audit upload. Please try again. (ref. code 40) | Something disrupted the FW download. Could be RF signal, internet drop out, timeout, etc. Try again, if it continues switch to AP mode. |

| Failures During the Download (Cont.) | Error - No data to handle. HTTP content length is 0. Please try again. (ref. code 43) | Something disrupted the FW download. Could be RF signal, internet drop out, timeout, etc. Try again, if it continues switch to AP mode. |
|--|---|--|
| | Error - Failed to enter AP mode. Please try again. (ref. code 44) | Internal error. Cancel, disconnect, wait for AMBER LED to go out Check battery voltage and try again. |
| | Error - Missing site key. (ref. code 48) | Commissioning error the lock is going to the wrong partner host, delete the lock, FDR, e-commission and try again. |
| | Error - Invalid security certificate. (ref. code 49) | Commissioning error or the lock is going to the wrong partner host, delete the lock for the site, FDR the locks, re-commission, and try again |
| | Firmware Download Failure - Attempting to download again. (ref. code 50) | Something disrupted the FW download. Could be RF signal, internet drop out, timeout, etc. Try again, if it continues switch to SoftAP mode by turning Wi-Fi OFF, and try a SoftAP firmware download |
| | Error - A FDR was Initiated during the download. (ref. code 33) | Allow lock to recover, stop blinking. FDR and re-commission. Reset Wi-Fi and repeat download attempt. |
| | Error - The host was disconnected during the download. Please try again. (ref. code 35) | An internet drop out or a server drop out. Try again. |
| Deventeed totomorphics | Error - The access point was disconnected during the download. Please try again. (ref. code 36) | Wireless signal was lost during download, try again or switch to SoftAP mode. |
| Download Interruption or Download Timeout | Error - The download timed out. Please try again. (ref. code 37) | Download timed out, wireless router is slow or internet connecting is slow, and took to long. Try again or switch to SoftAP mode. |
| | Error - The download was interrupted. Please try again. (ref. code 41) | There was a download interruption, may have had an internet drop out or a server drop out, or an alert event at the lock. Try again. |
| | Error - Lost connection to host server during audit upload. Please try again. (ref. code 21) | May have had an internet drop out or a server drop out. Try again. |
| Wi-Fi Commissioning | Error - The Wi-Fi settings failed to save to the device. Please try again. (ref. code 14) | Failed to write SSID and Password to lock memory. Maybe the SSID or pw is too long and too many characters. Ask the customer how many characters they are trying to enter. They should limit to a maximum of 18 characters. |

| Wi-Fi Turn on SoftAP | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 05) | Confirm you selected the correct SoftAP mode SSID in "Chose a Network" in settings. For SoftAP mode you must select the SSID that is the name of the NDE lock you are updating. Confirm you have good battery voltage. (Wi-Fi stops working at 4.6 volts) |
|--|---|--|
| | Error - The device access point timed out. Please try again. (ref. code 51) | In SoftAP mode your smart phone may have timed out, (Auto-Lock). Go to the mobile device settings and increase the time to ten minutes or more so SoftAP mode has time to complete. |
| | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 01) | The Wi-Fi chip failed to turn ON. The Wi-Fi chip will not turn on if battery power is low. Check the battery level, must be well above 4.6 volts DC. Try again. If batteries are good and error repeats, product could have defect. |
| | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 02) | Wi-Fi self-test fails when Wi-Fi it set to "OFF" battery could be low at 4.6 volts. Check batteries and set Wi-Fi to ON. |
| | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 03) | Wi-Fi was already busy, and should have been already turned OFF on the NDE for SoftAP mode to start |
| | Error - The Wi-Fi failed to turn on. Please try again. If the problem persists, contact Technical Support at (877) 671- 7011. (ref. code 04) | The Wi-Fi chip will not turn on if battery power is low. Check the battery level, must be well above 4.6 volts DC. Try again. |
| HTTP Error Received from Server ERROR 18 | IN OEM210 MODE: | |
| | An error from the server prevented connection. Confirm Host Configuration settings and try again. If the problem persists, contact your service provider. | |
| | (ref. code 18) | |
| | FOR ENGAGE MANAGED SITE: An error from the server prevented connection. Confirm the Wi-Fi network is | |
| | connected to the internet and try again. | |
| | (ref. code 18) | |



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