Smart Wireless App Module

Instruction Manual

CM-AM23S



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K5J30 V.5

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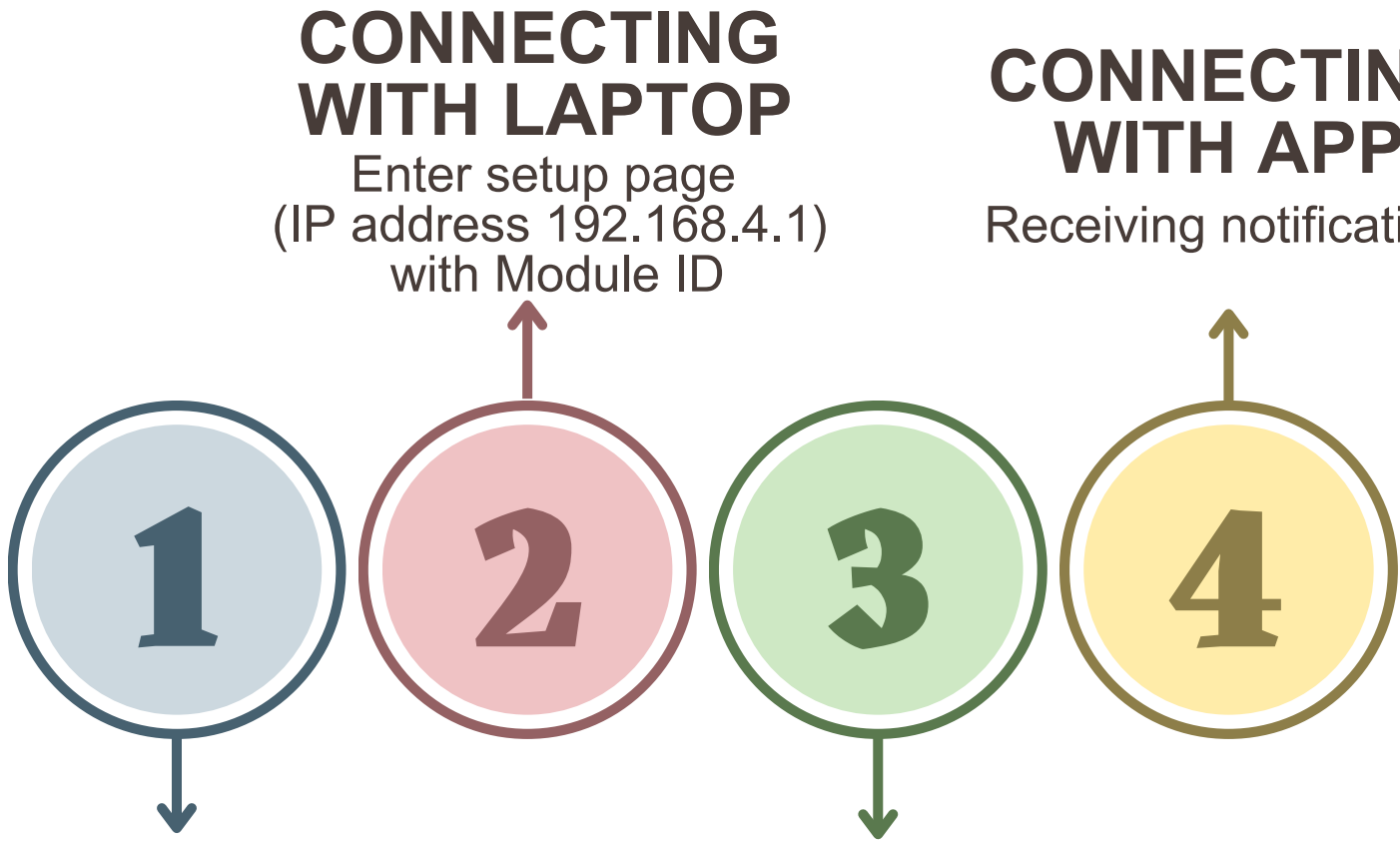
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CM-AM23S Setup Process



PREPARATION

Line:Channel access token
Telegram:Token &ChatID
Email: Receiver address

CONNECTING WITH LAPTOP

Enter setup page
(IP address 192.168.4.1)
with Module ID

MODULE SETTINGS

Customized message /
Wi-Fi / Receiving App

CONNECTING WITH APP

Receiving notifications

Connection Interface



◆ Power supply (2 options):

- V+: 5~24VDC
  G: COM
- USB to Type-C: 5VDC 1A



⚠ Powercannot be supplied if a USB-to-Type-C cable is not used.

⚠Warning: Please use only one power supply at a time. Supplying power simultaneously may cause the module to malfunction.

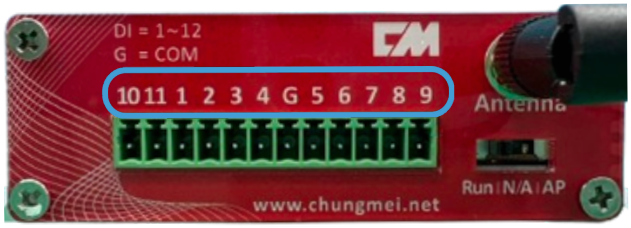


◆ Switch setup button:

AP: Connect to a laptop for setup.

N/A: Accidental switching may cause malfunction.

Run: Receive real-time notifications on phone.





◆ Digital Input(DI): 1~12

Ensure that the external device connected to the DI of the CM-AM23S provides a dry contact. The external wiring must not carry any voltage or leakage current, as even a small amount of leakage may cause continuous false alarms and resets.







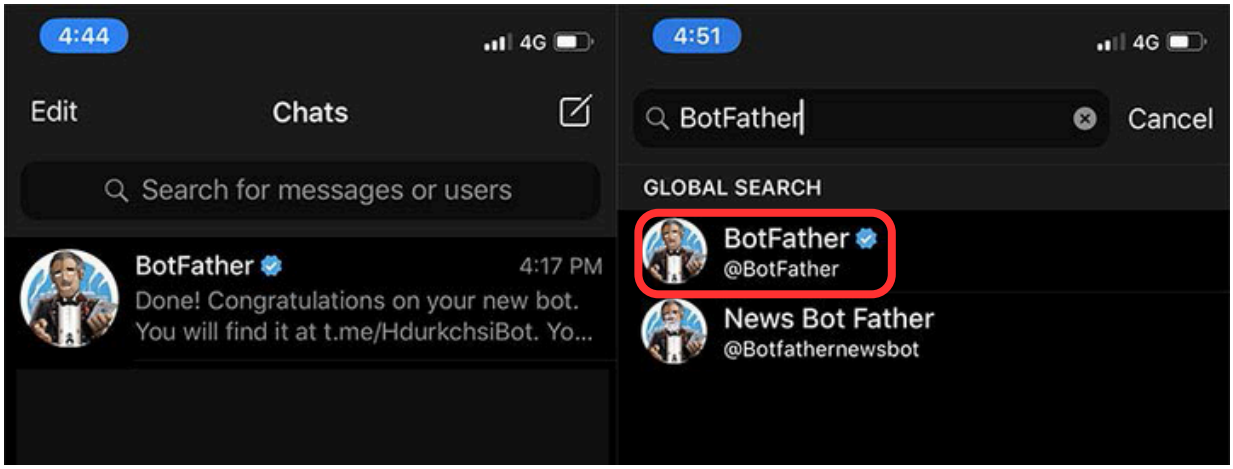
There is no specific wire requirement.

Preparation for Telegram Connection

1.Create Telegram bot

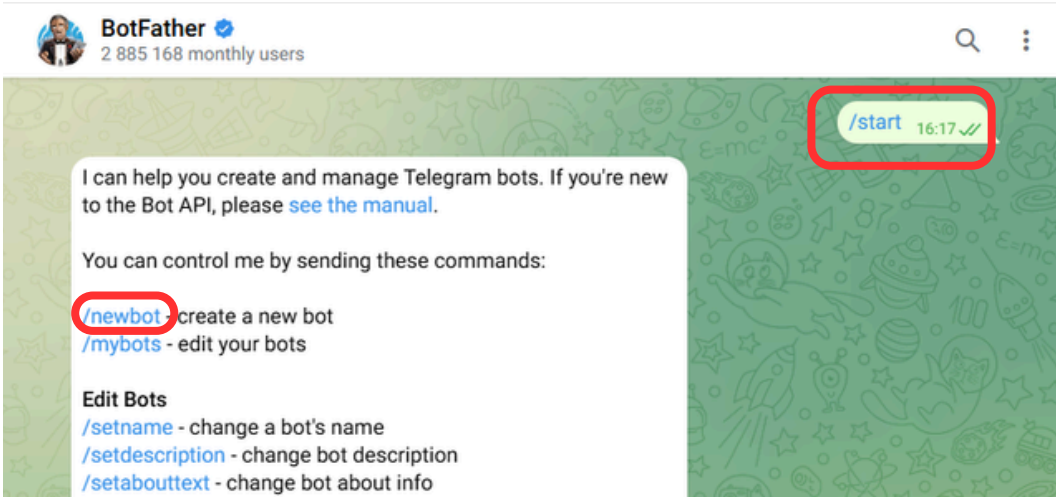
To enable message push notifications, you need to create a Telegram chatbot.

① Search for @BotFather and open the chat in your Telegram app.



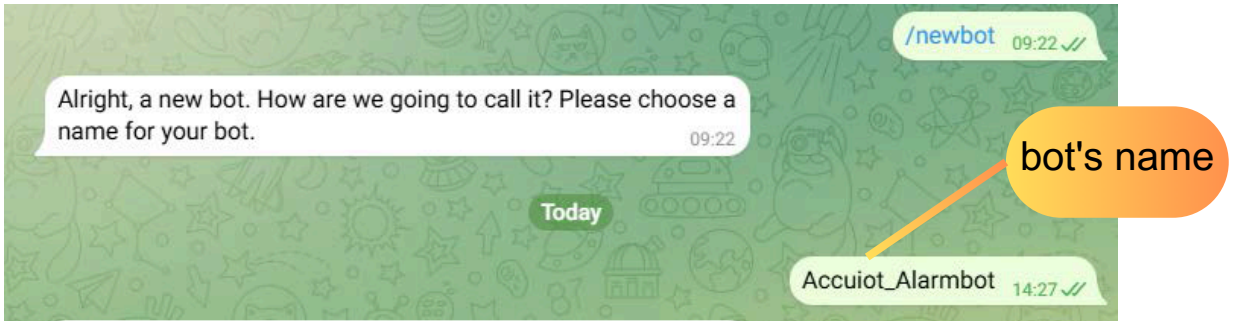
② To type the /start command in the @BotFather chat to start the setup process. @BotFather will display a list of available commands.

③ To click the /newbot command to create a new bot.



When you see the following message, it means the bot has been successfully created:
Alright, a new bot. How are we going to call it? Please choose a name for your bot.

④ Please give the bot a name.
※ Chinese characters are not currently supported.



Then, you will see the following message:
Good. Now let's choose a username for your bot. It must end in `bot`. Like this, for example: TetrisBot or tetris_bot.

⑤ The name you choose will be your bot's display name. It must be unique and cannot be changed later.
※ Chinese characters are not currently supported.

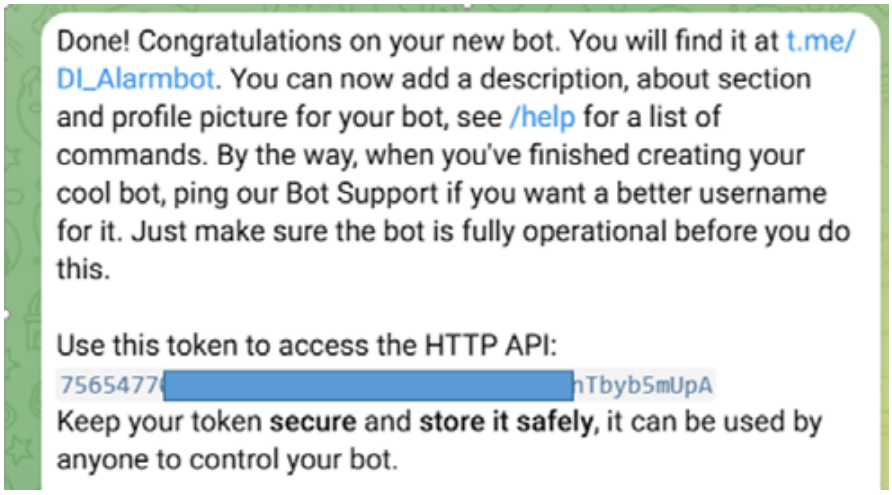


Done! Congratulations on your new bot……

When you see the above message in the chat, your bot setup is completed.

※ Please make sure to save the token under "HTTP API". You will need it later when setting up the CM-AM23S module.

Warning: Make sure to keep your token secure and store it in a safe place. Anyone who obtains it will be able to fully control your bot.

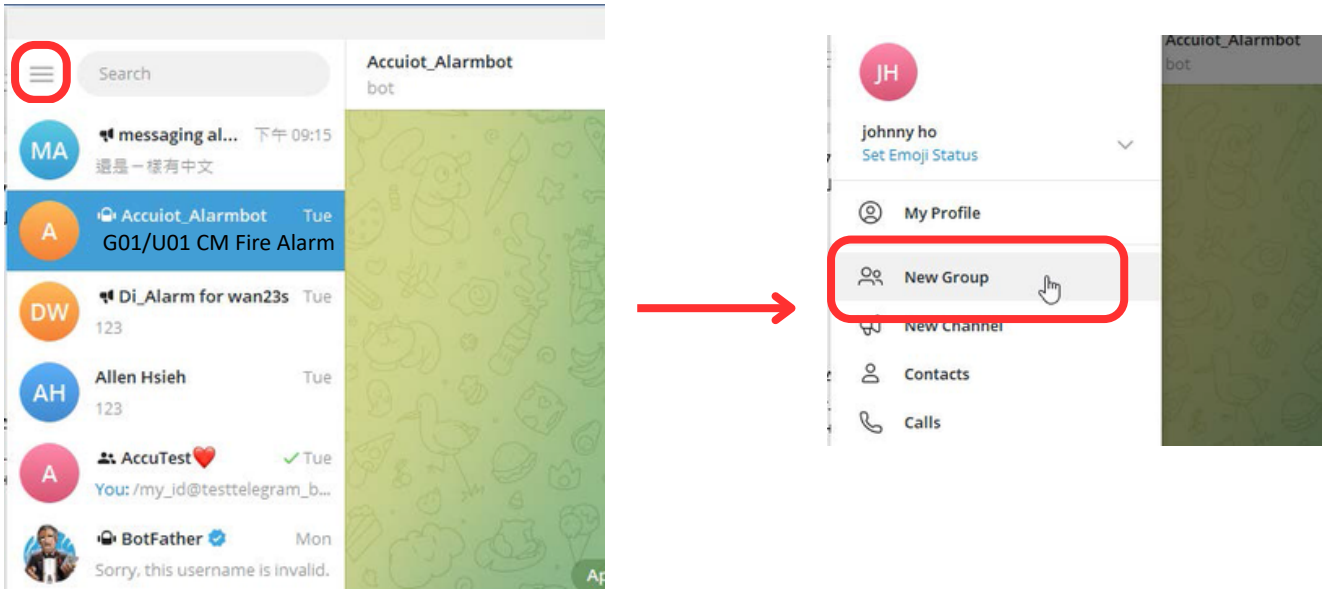


2. Create a group chat to receive push notifications

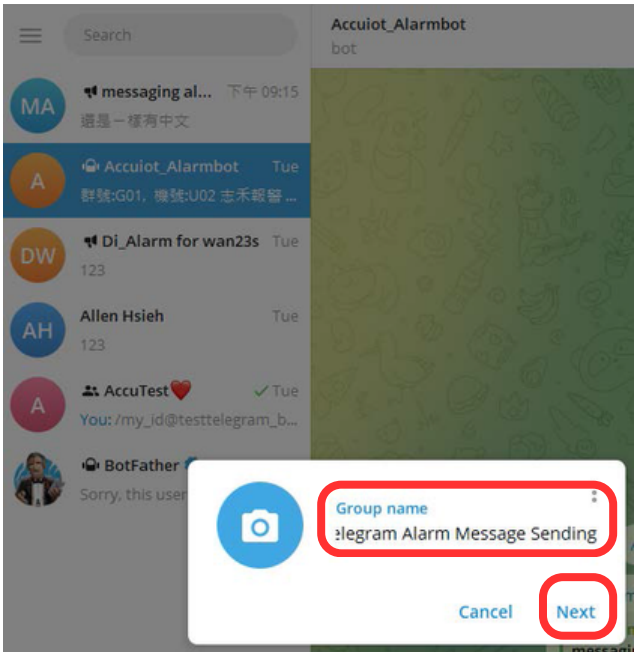
2-1. Desktop version

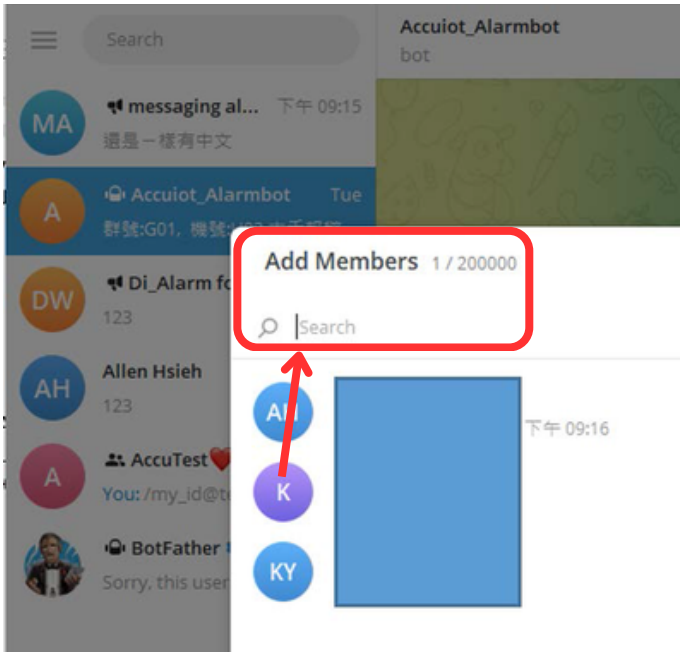
This group will be used to receive push notifications. After creating the group chat, you must add the bot to it to receive the push notifications from the CM-AM23S Smart Wireless App module.

① Please create a new group chat.

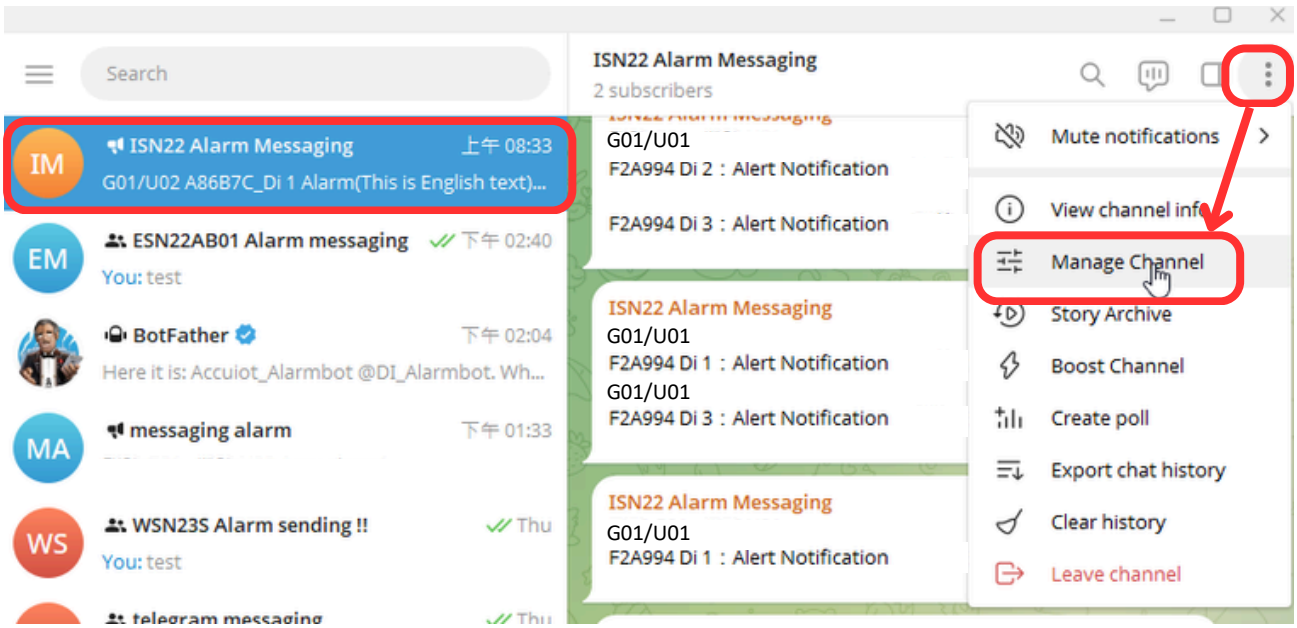


② Enter a name for the group chat.
③ Add user who wishes to receive push notifications to the group chat.

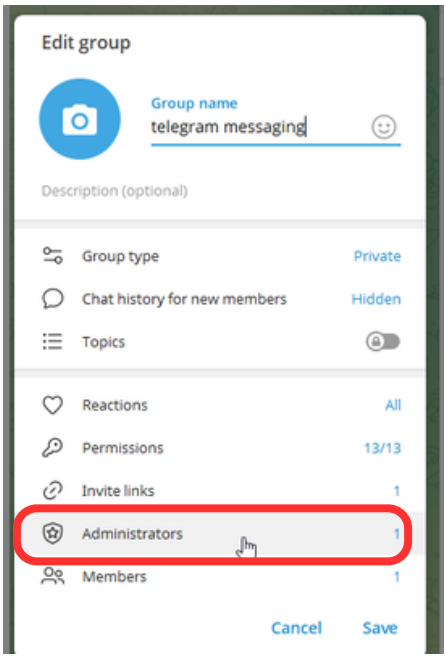


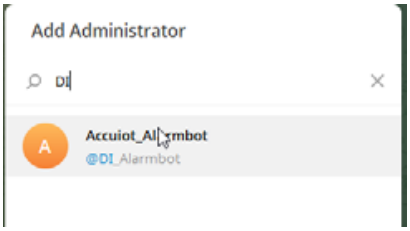


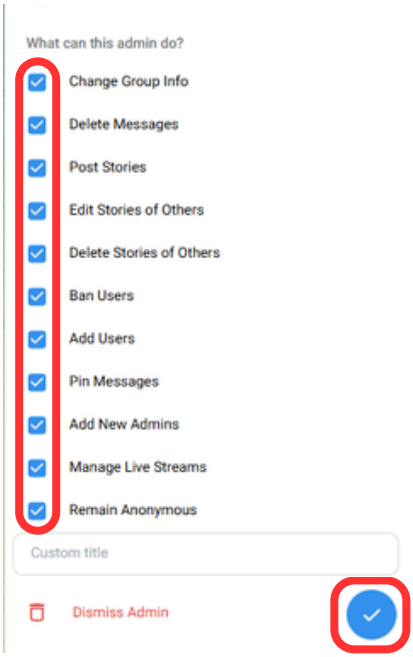
After the group is created, it will appear in your chat list.
④ Select “Manage Channel.”



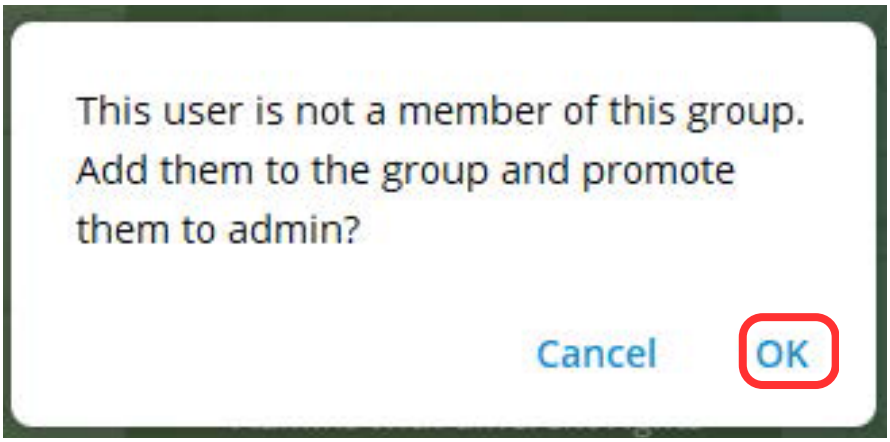
⑤ Go to “Administrators.”
⑥ Search for your bot and add it as an administrator.
⑦ Allow the bot all permissions so it can receive messages correctly.
⑧ Click “✔️” to allow the bot all permissions.







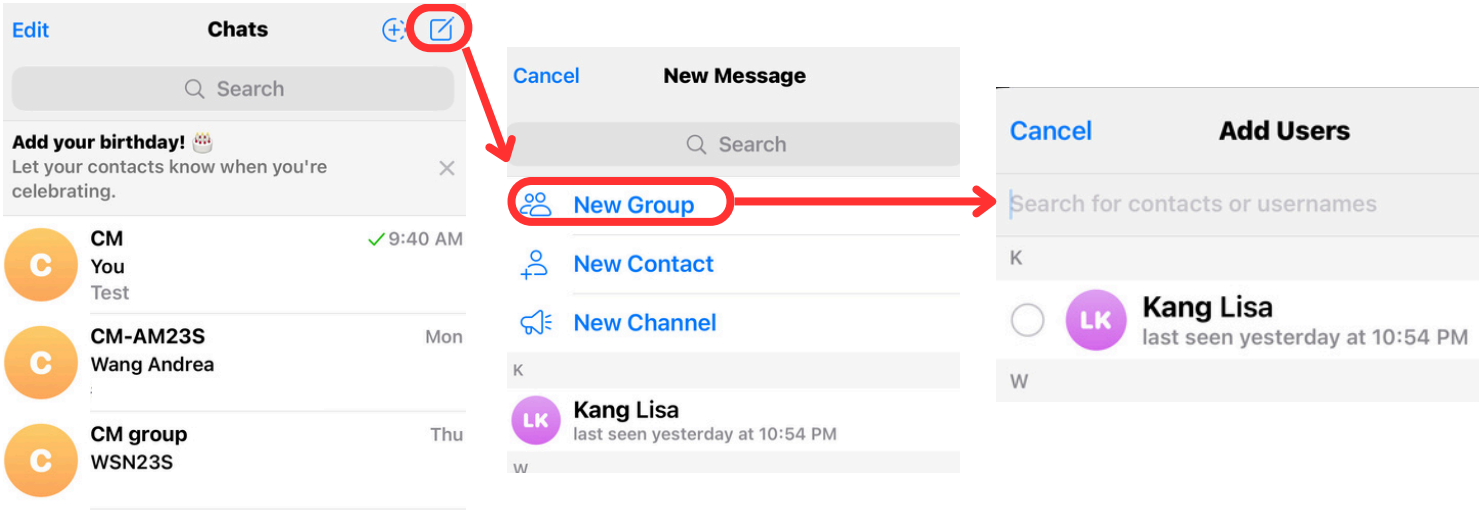
⑨ After confirming the bot’s permissions, the message window will appear as shown below. Click “OK” to continue.



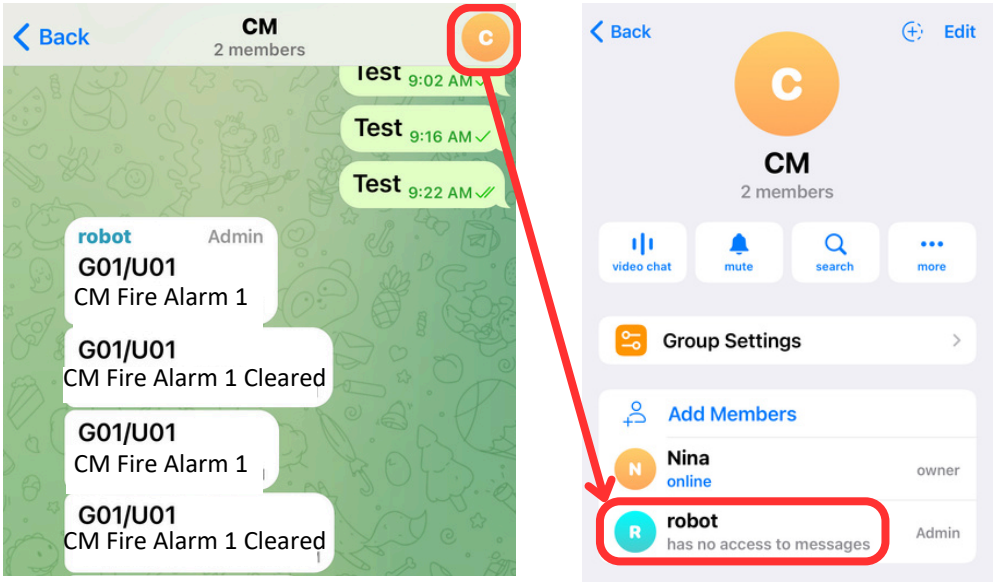
2-2. Smartphone version

① Please create a new group chat.

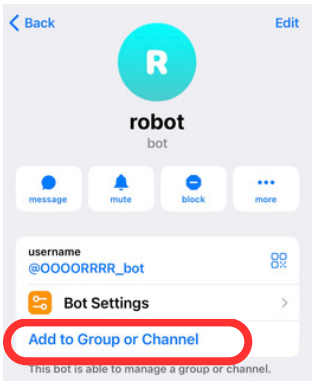
② Add your bot and anyone who wishes to receive push notifications to the group chat.

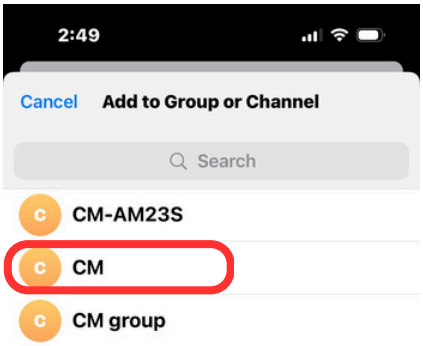


③ Click the group icon in the upper right corner.

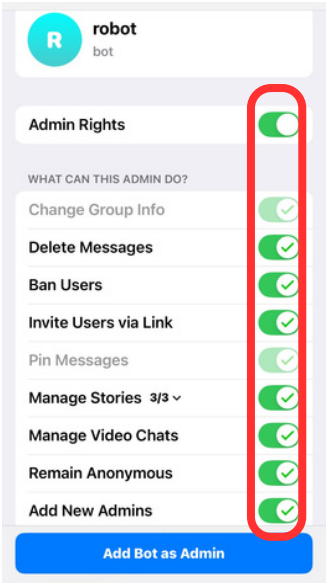


④ Set your bot as an administrator.





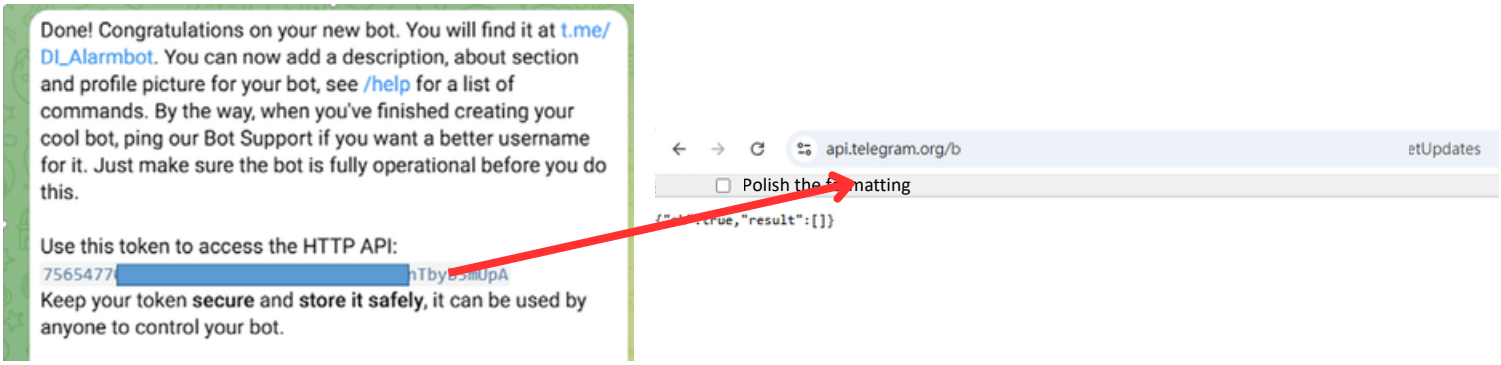
⑤ Allow the bot all permissions so it can receive messages correctly.



3.Search for Chat ID

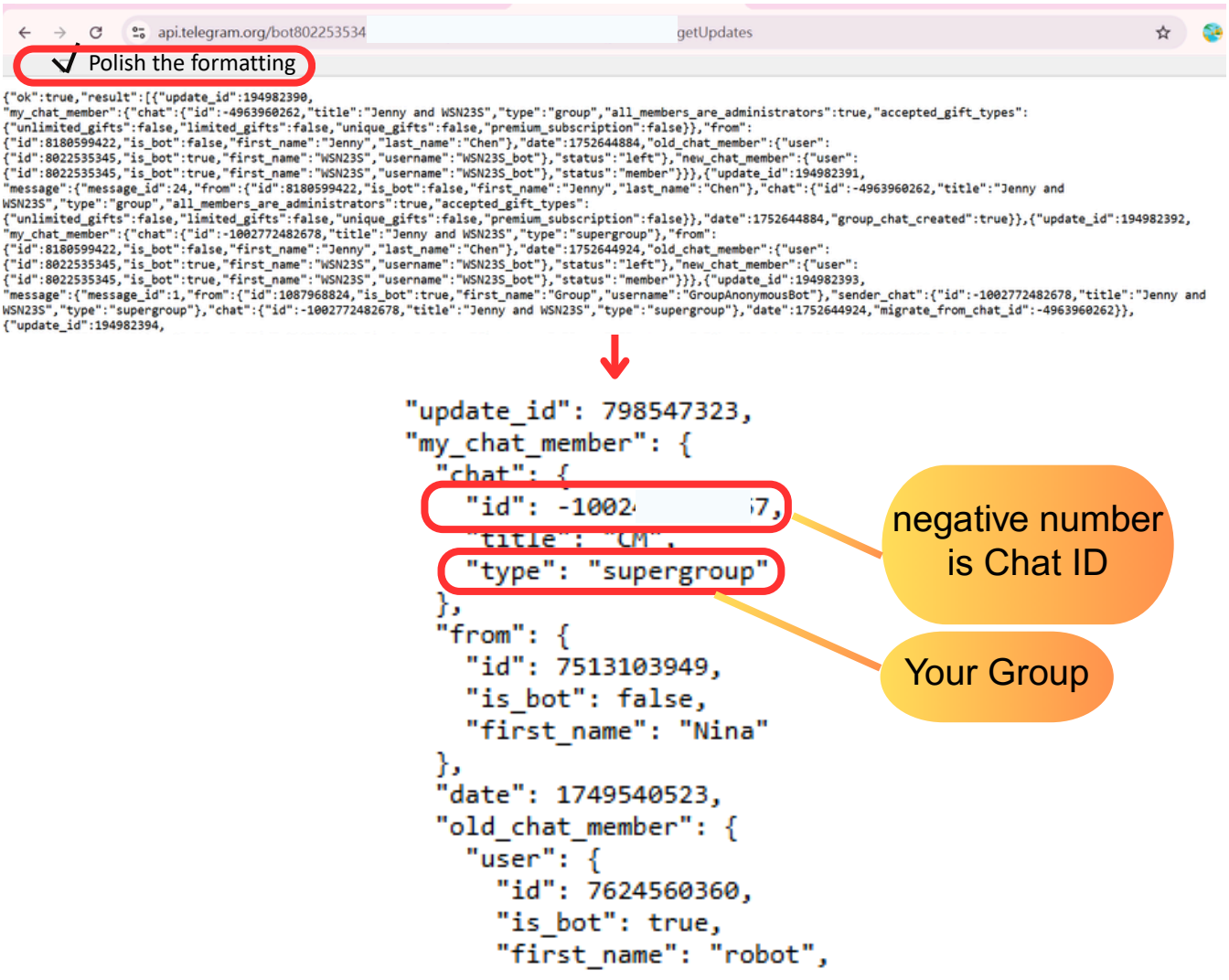
① Enter **https://api.telegram.org/bot<Token>/getUpdates** on the web browser.

Copy your token from the chat with @BotFather.



② Send the message to the Telegram group chat , the website will receive it and produce Chat ID.

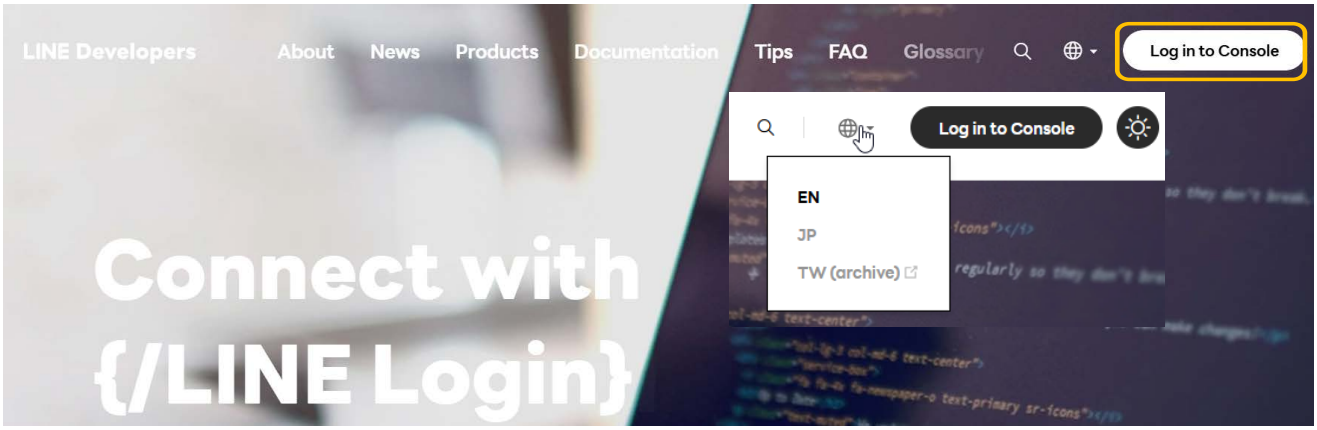




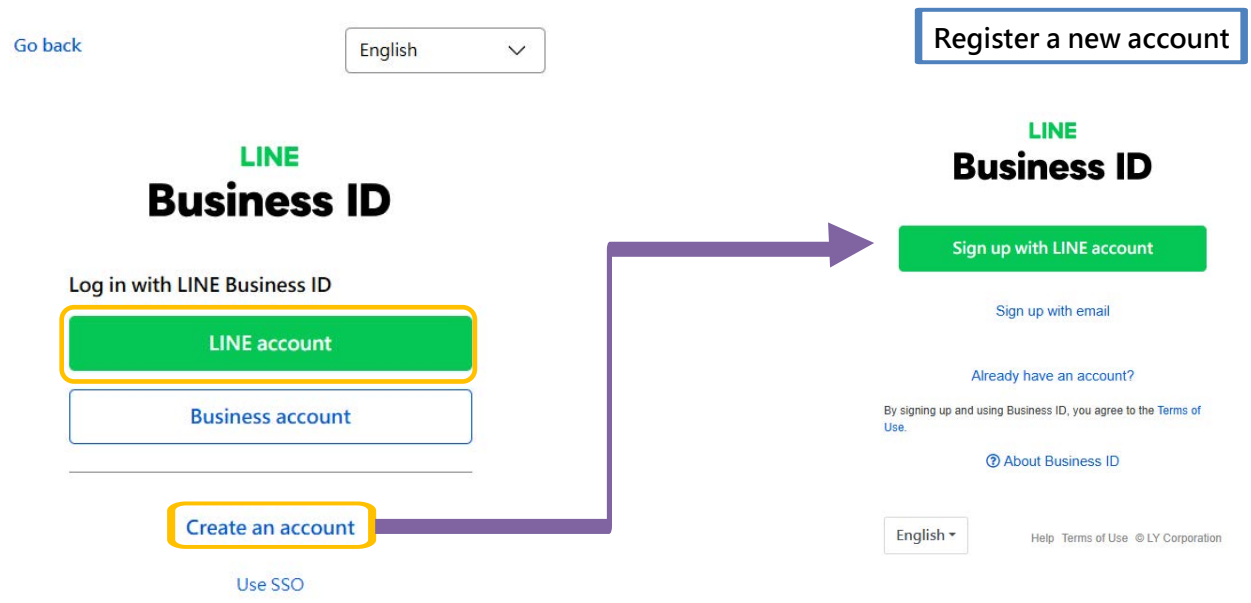
Preparation for Line Connection

4. Account login or registration

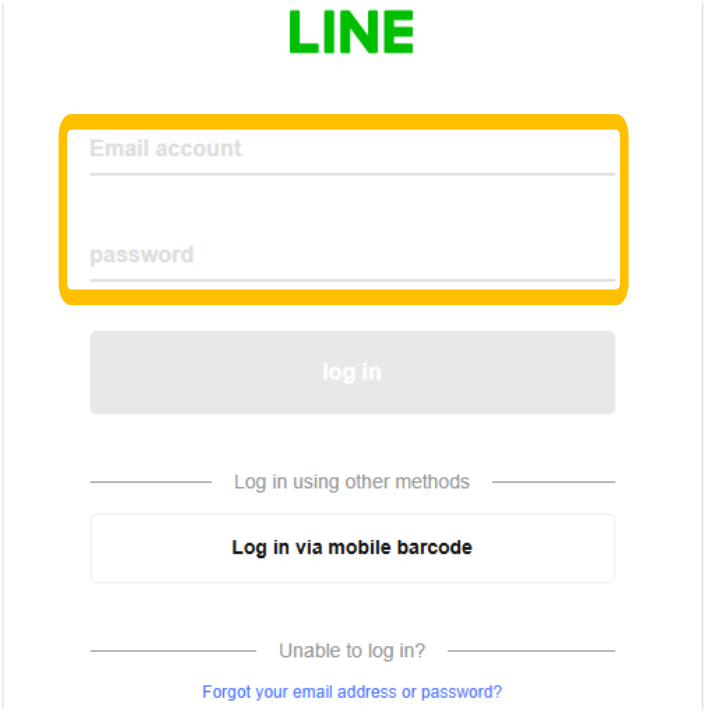
① When you enter the website, click "Log in to Console" to access your account.
Website: https://developers.line.biz/en/



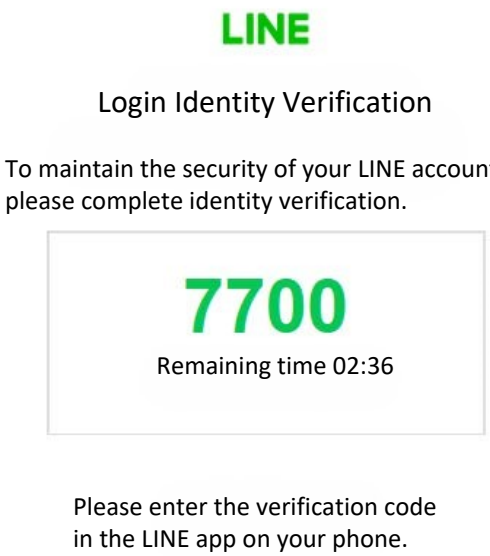
② Log in or register an account.



③ Enter password



④ Follow the instructions to enter the verification code in the LINE app on your mobile phone or tablet, then log in to the webpage.



※When you forget your password, there are two solutions.
1.In the LINE app on your mobile phone, go to "Settings -> Account -> Password" page to reset your password.

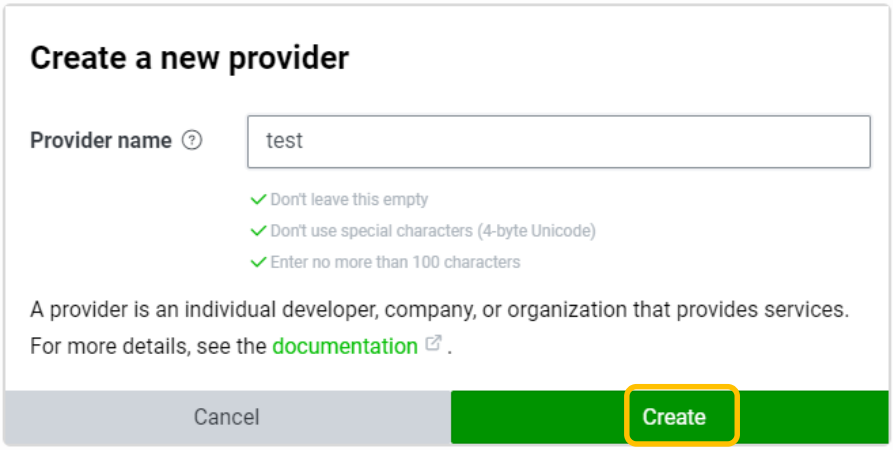
2. On the same page, select "Log in via Mobile Barcode" at the bottom and scan the QR code using the LINE app to log in.

5. Creating Providers and LINE Official Accounts

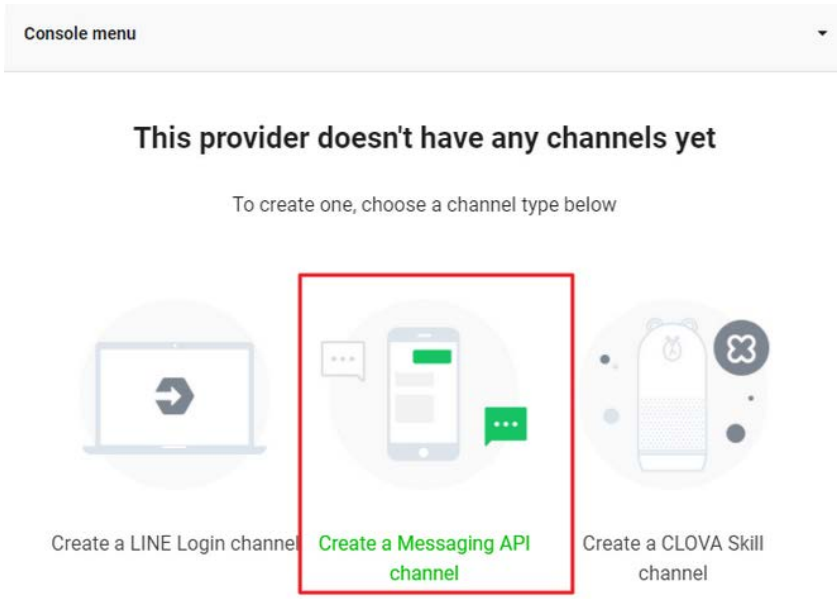
① Press "create" button to set up providers.



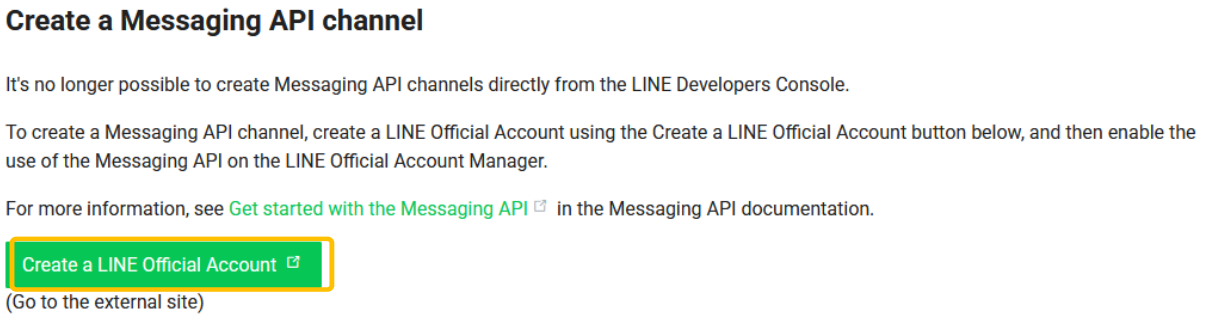
② Name your Provider and then click "Create" button.



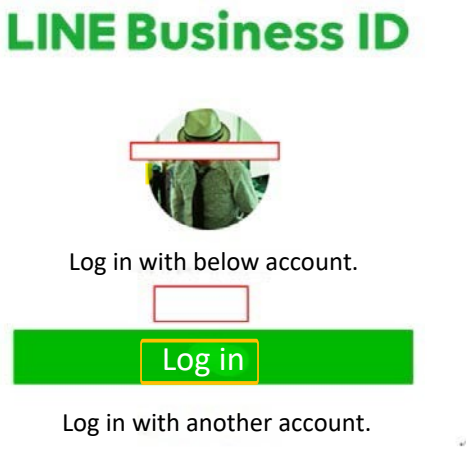
③ Click "Create a Message API Channel" to create a chatbot data channel.



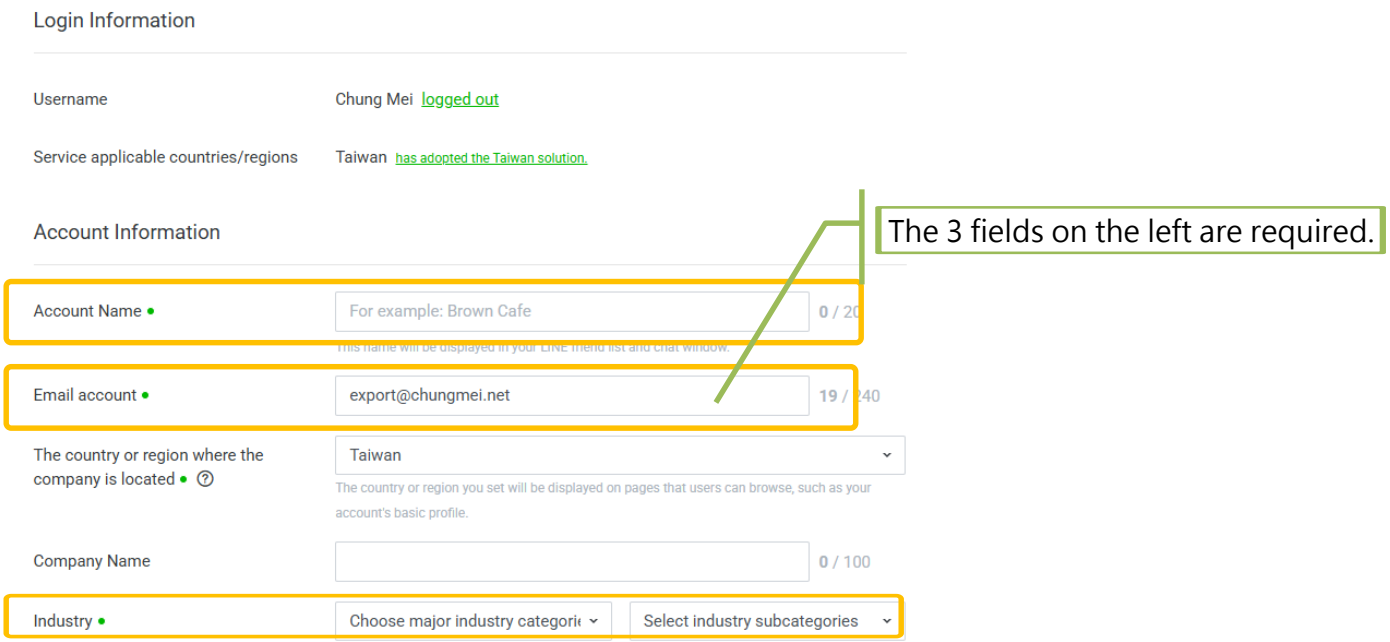
④ The data channel must be created through a LINE Official Account. Click "Create a LINE Official Account" to proceed.



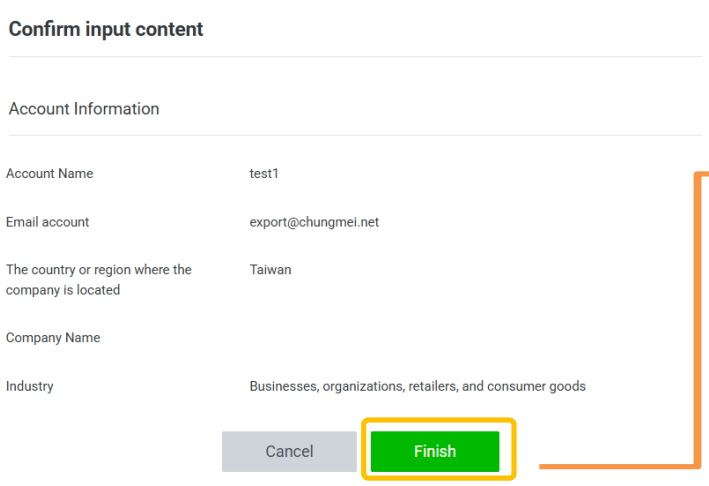
⑤ Click "Log in"

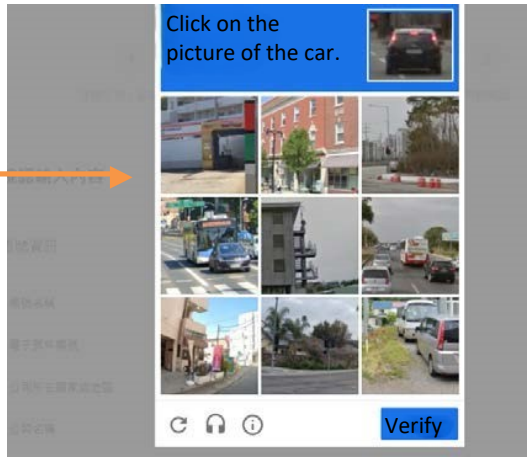


⑥ Log in and enter your information to set up a LINE Official Account.



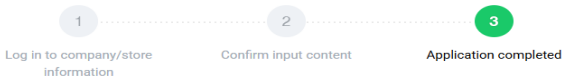
⑦ Verify account after setting up your account.

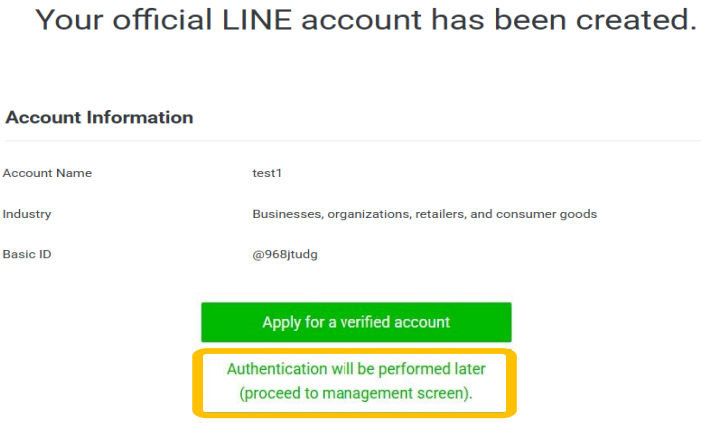




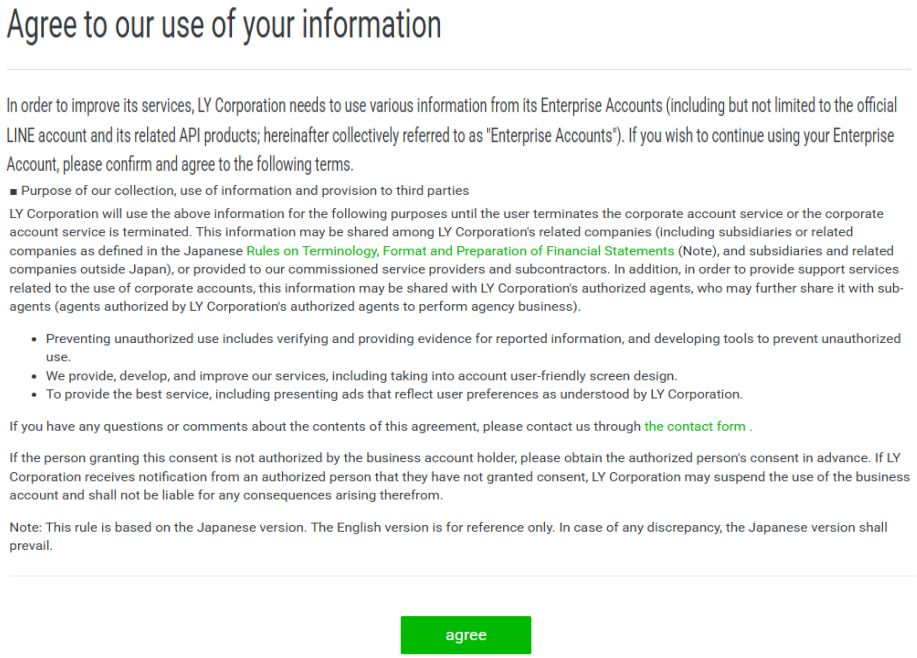
If it doesn't pop out verification image, you can continue the next step.

⑧ Scroll down, click "Verify Later" and go to the management dashboard to set up the newly created LINE Official Account.

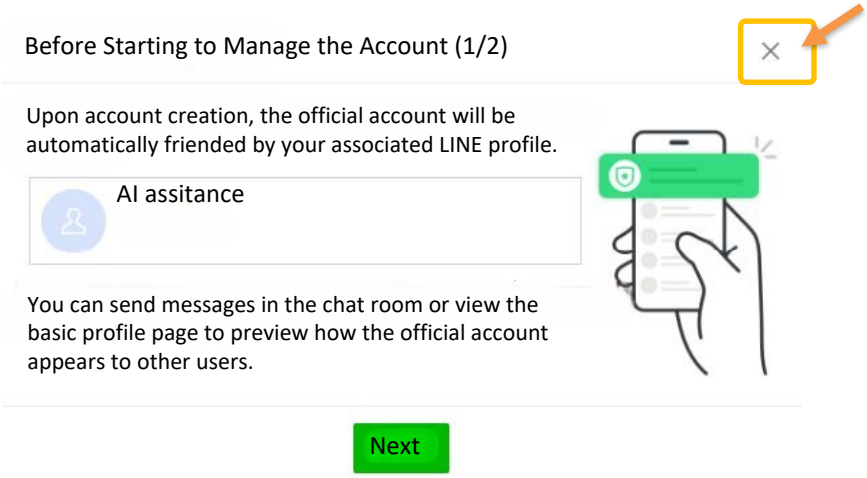




⑨ Carefully review the authorization content, and agree to proceed to the next step.

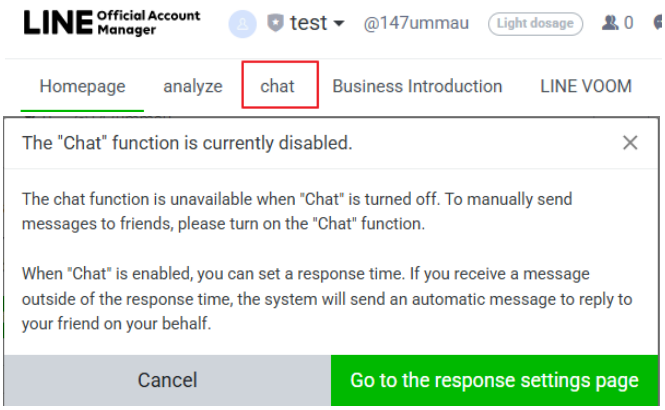


⑩ A short guide appears for the first time when you create an Official Account. Please click "x" to close information window.



6. Enabling the Messaging API

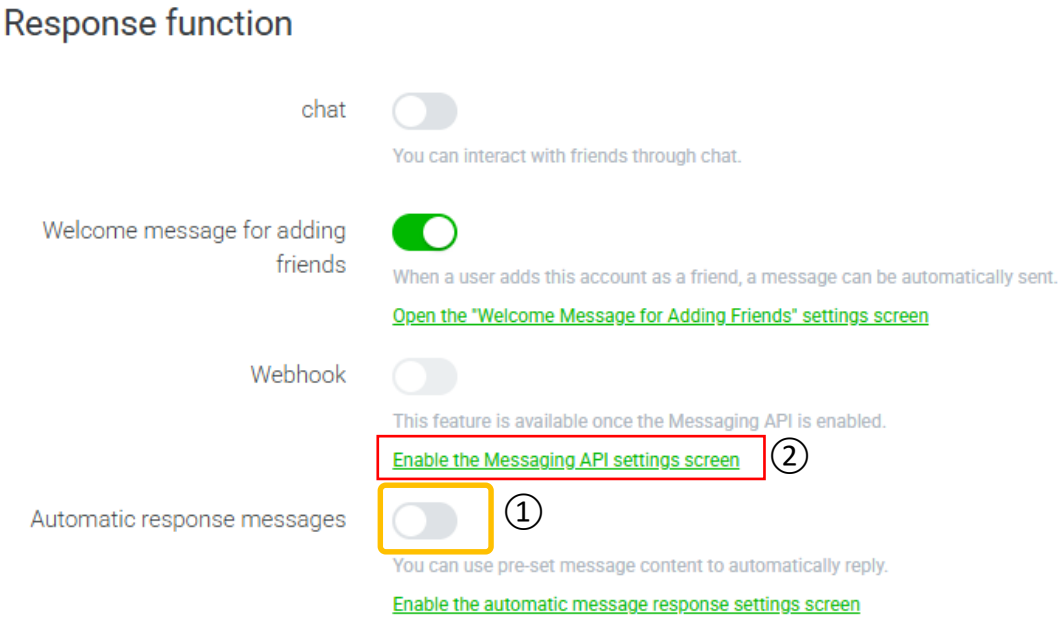
① Switch to "chat" feature.



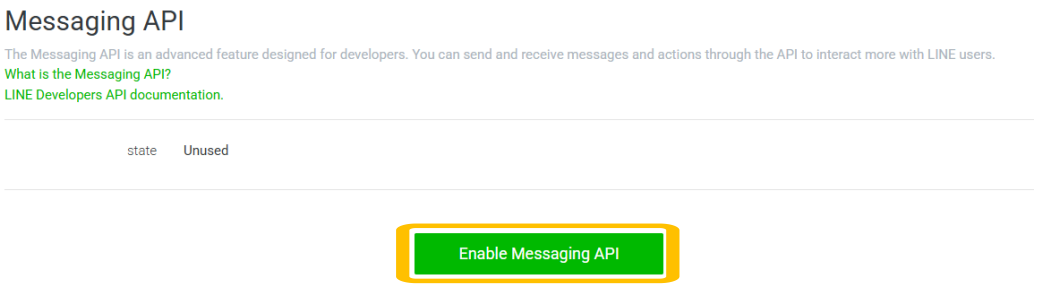
② Response function

step 1. Please disable the auto-reply function; otherwise, messages cannot be processed by the backend system.

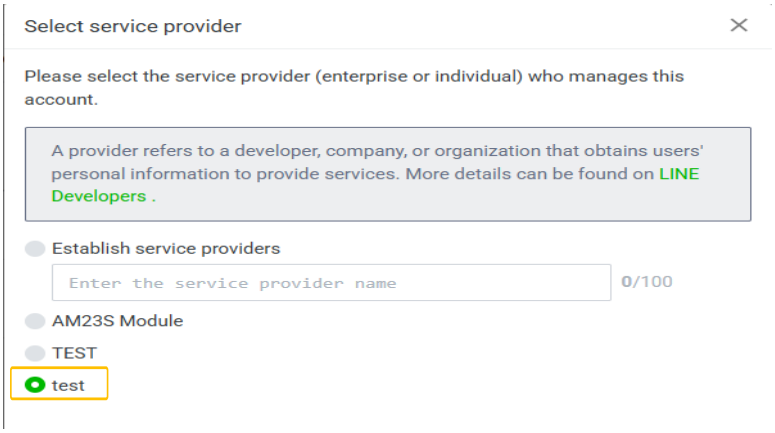
step 2. Then, open the Message API settings page and enable the Message API feature to allow the backend system to respond to messages.



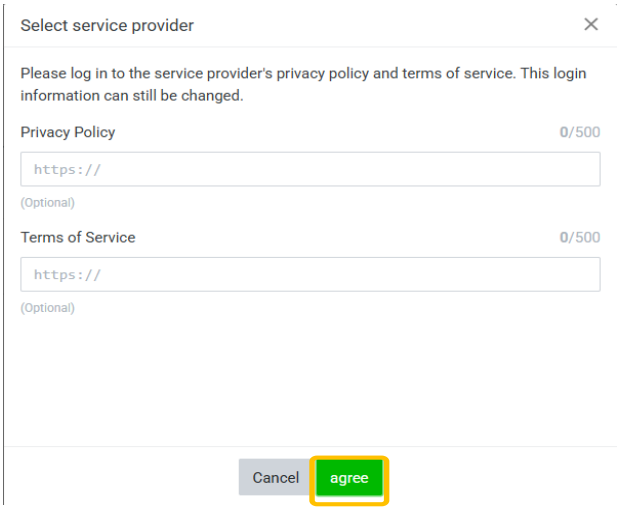
③ Enable Messaging API function.



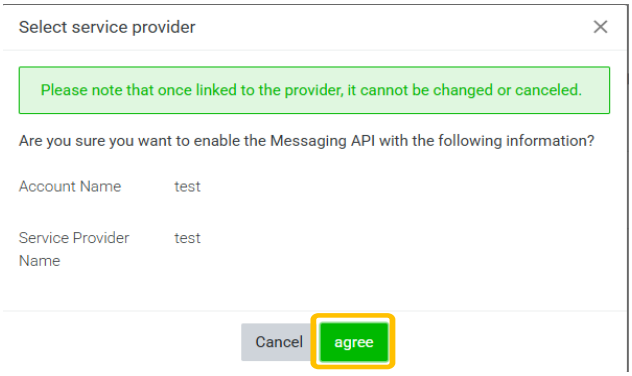
④ Select the Provider which be created at the beginning.



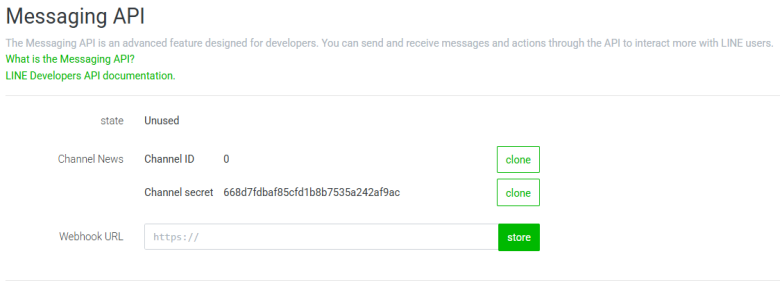
⑤ The Privacy Policy and Terms of Service fields can be left blank. Simply click "agree" to continue.



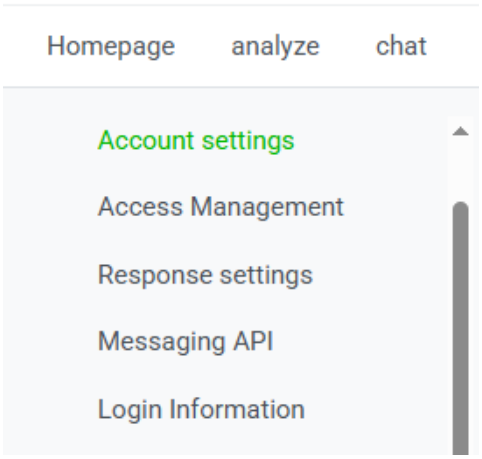
⑥ After confirming the information is correct, click "agree" to confirm the information.

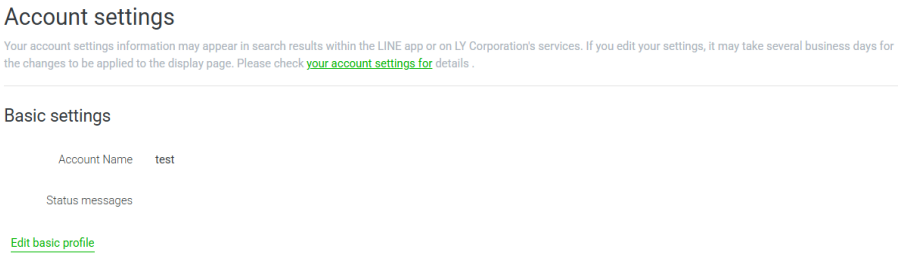


⑦ When you see this page, the setup is completed.



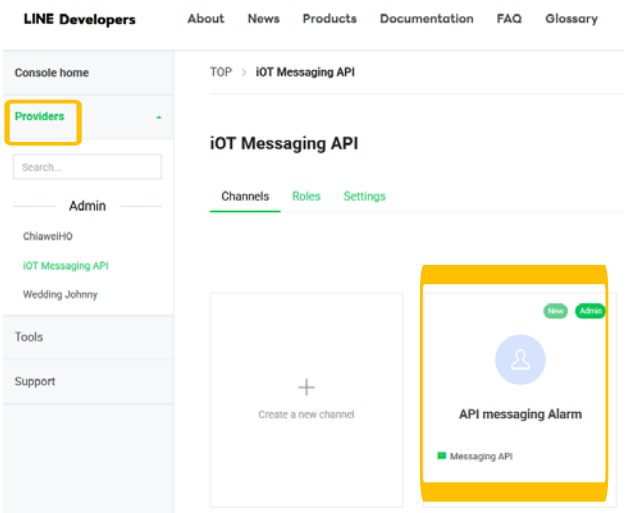
⑧ Set the profile image for the LINE Official Account. If the chatbot is for experimental use, this step can be skipped. In the left sidebar, click "Account Settings", then select "Edit basic profie" to upload or drop a profile image.



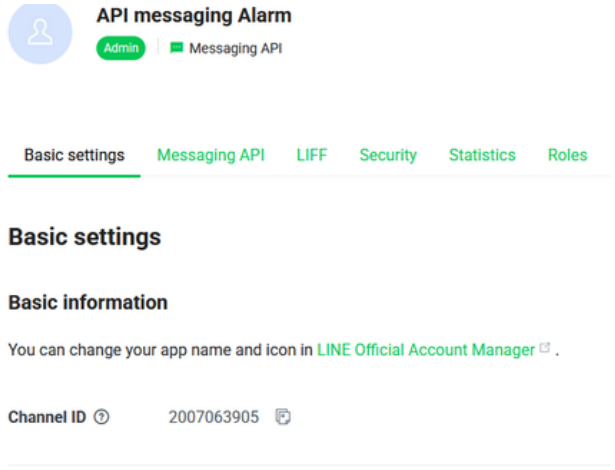


7. Obtaining Channel Access Tokens

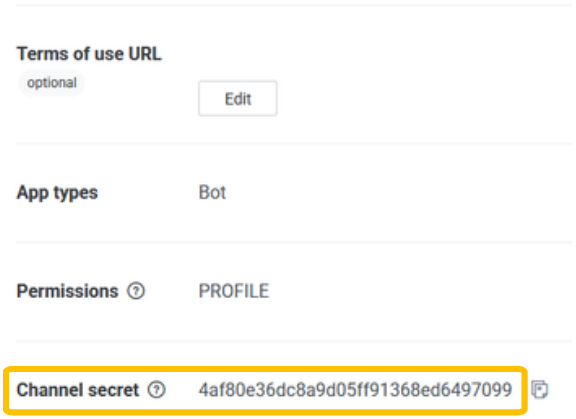
① Obtain the secret key and access token that allow the backend application to communicate with the LINE channel. First, return to the LINE Developers Console. Click the "Provider" in the left sidebar, then select the Offical Account you just created on the right side.



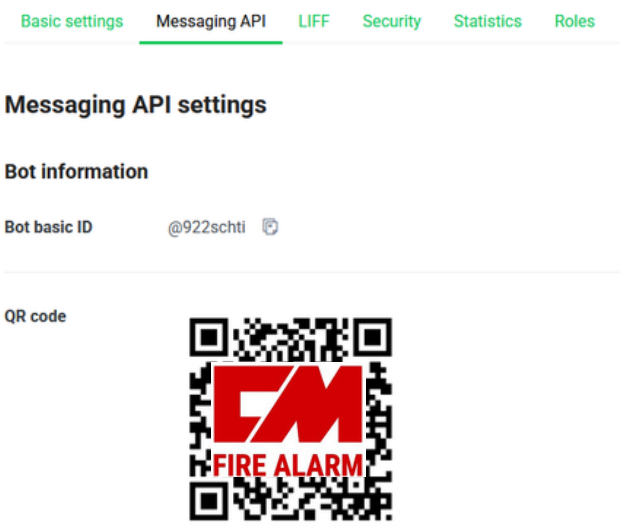
② By default, the Basic settings page is displayed.



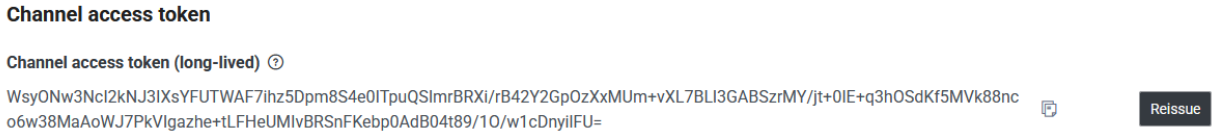
③ Scroll down the page to find the "Channel secret". This is the secret key.



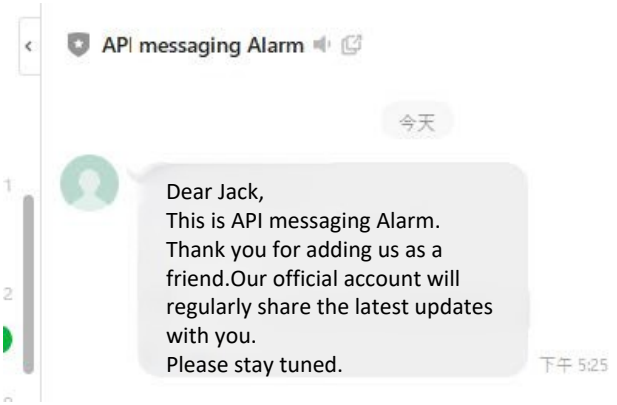
④Scroll back to the top of the page and switch to Messaging API feature. It will show LINE ID and QR Code for this official account, which others can use to add it as a friend.



⑤ Scroll down to the bottom of the page to find the "Channel access token", then click "Issue" to generate the token. If there is no response, click "Reissue" to try again.



⑥ You will receive a welcome message because the Official Account is automatically added as your friend.

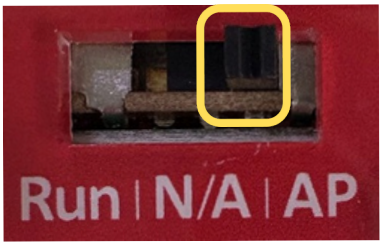


Connecting CM-AM23S module with device

8.Connecting CM-AM23S module with laptop via Wi-Fi

①Switch the module to AP mode, then connect the power via USB-C or G/V+ contacts.





②Connect to the Wi-Fi of CM-AM23S.

When the green light flashes, the laptop can search for and connect to the module.

Remark: The Wi-Fi account on each module will be different.





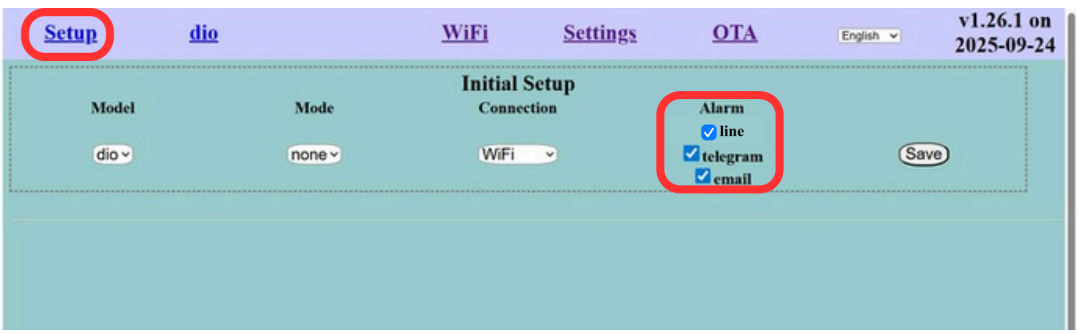
Connecting CM-AM23S module with App

9. Setting up simultaneous alerts

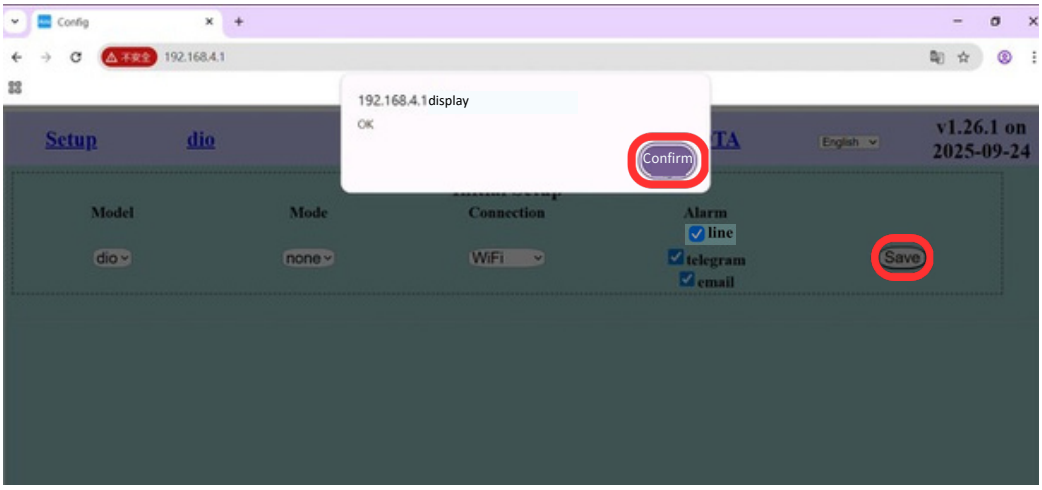
① Enter the IP address 192.168.4.1 into your web browser to access the setup page for CM-AM23S.

② Setup page

Step 1. Select Line, Telegram and Email from the Alarm menu to let module can simultaneously transmit push notification.



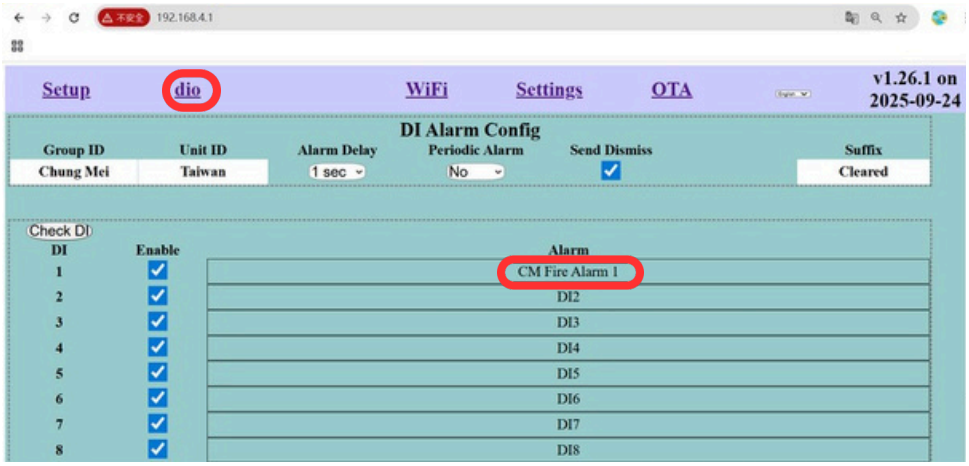
Step 2. Click save and confirm to save all the settings.



10. Custom push notifications name

①dio page:

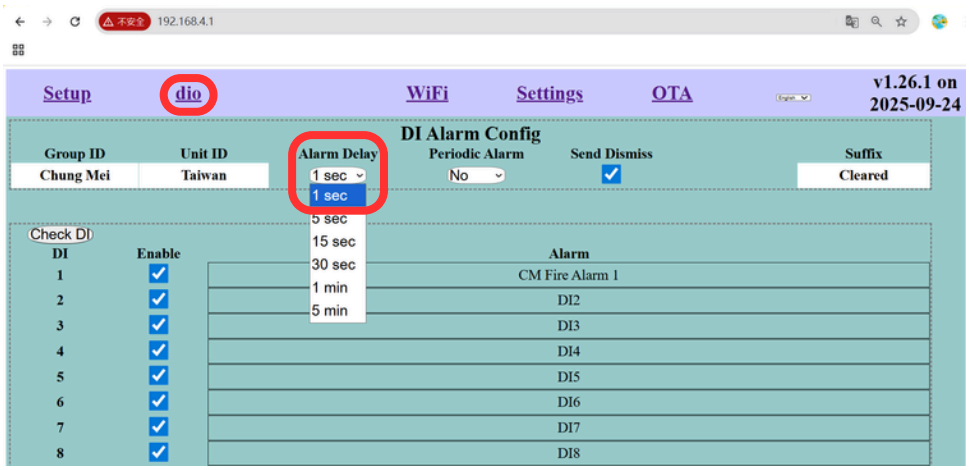
step 1. Name the alarm push notification using any language or icons of your choice.



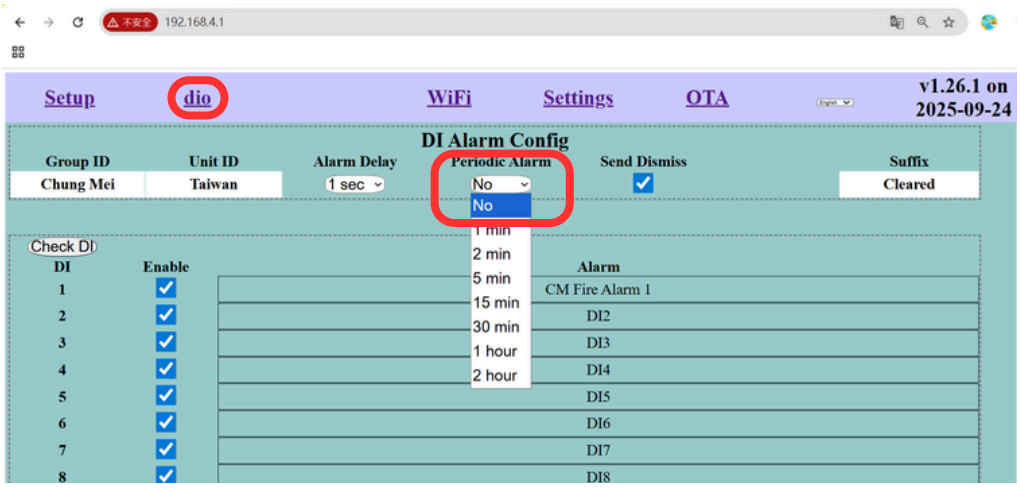
step 2. Set the Group ID and Unit ID to name your different projects.



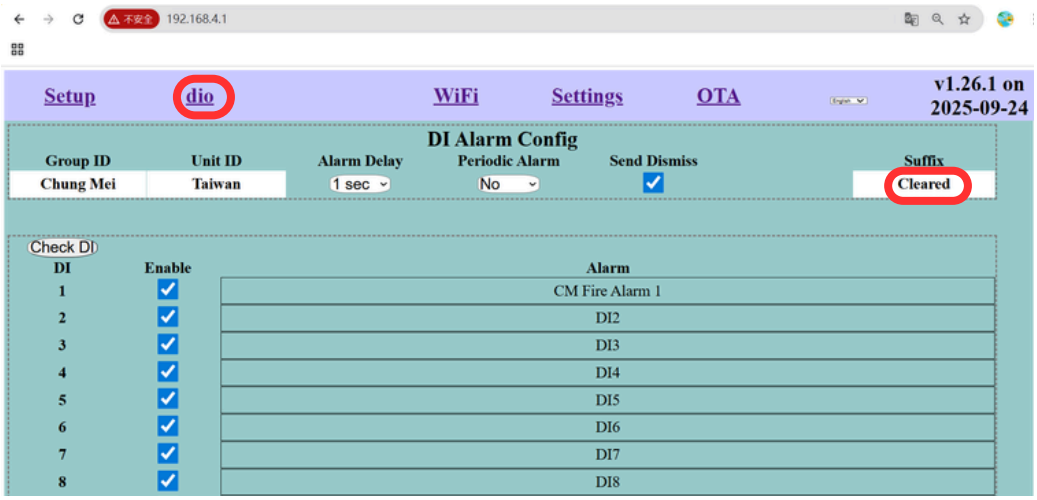
step 3. Set a delay time for receiving the push notifications if needed.



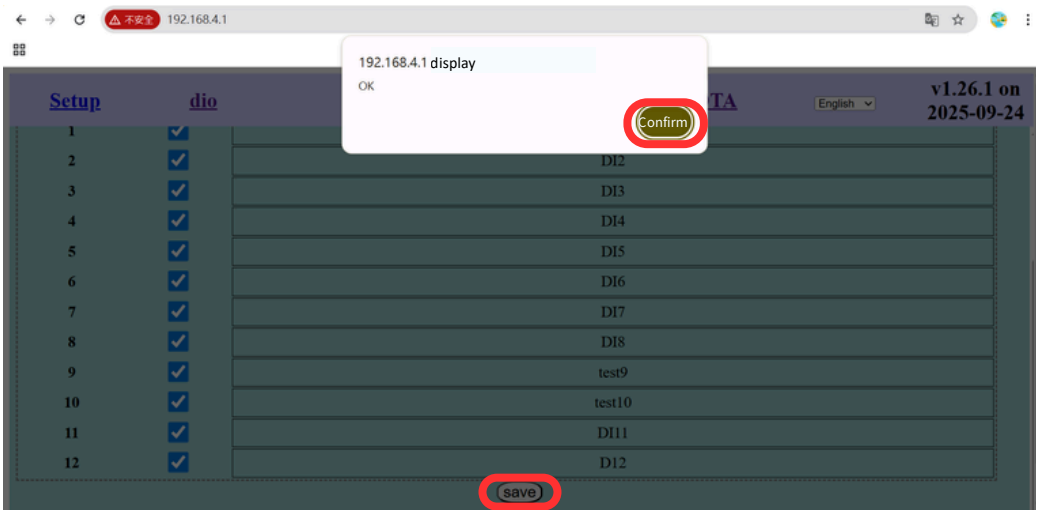
step 4. Set a periodic alarm and select the time if needed.



step 5. Set a suffix to be displayed in the push notification when the fire alarm is cleared.



step 6. Click save and confirm to save all the settings.



11. Multiple Wi-Fi network setup

① Wi-Fi page:

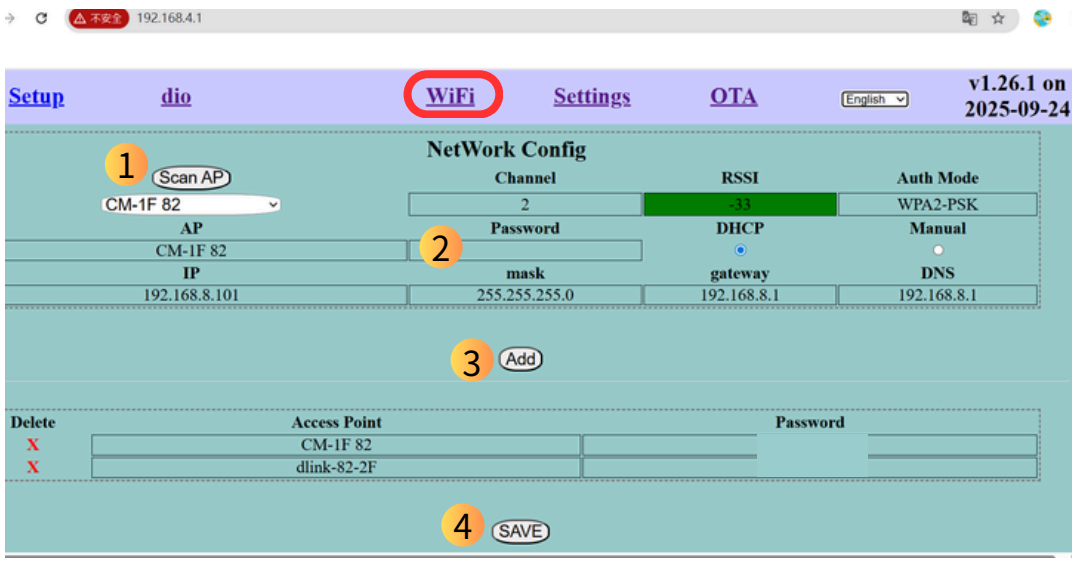
step 1. Scan AP to search for available Wi-Fi networks

step 2. Enter Wi-Fi password

step 3. Add Wi-Fi

step 4. Save

Remark: You can add multiple available Wi-Fi networks. The module will automatically switch between / among connected Wi-Fi networks to avoid signal loss.

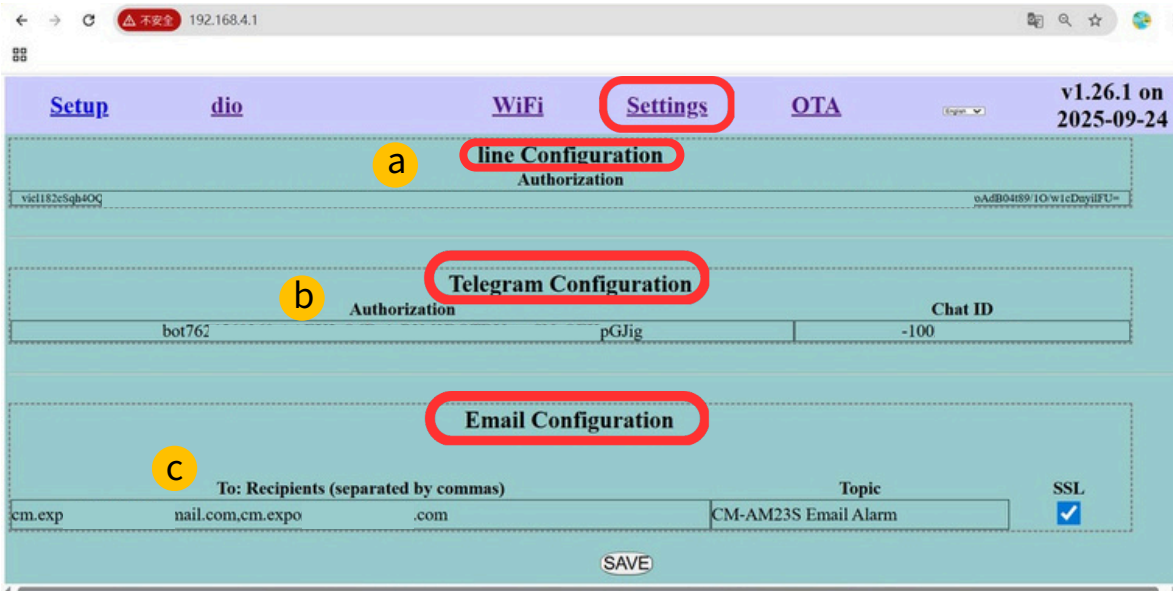


12. Enter account key to enable push notifications

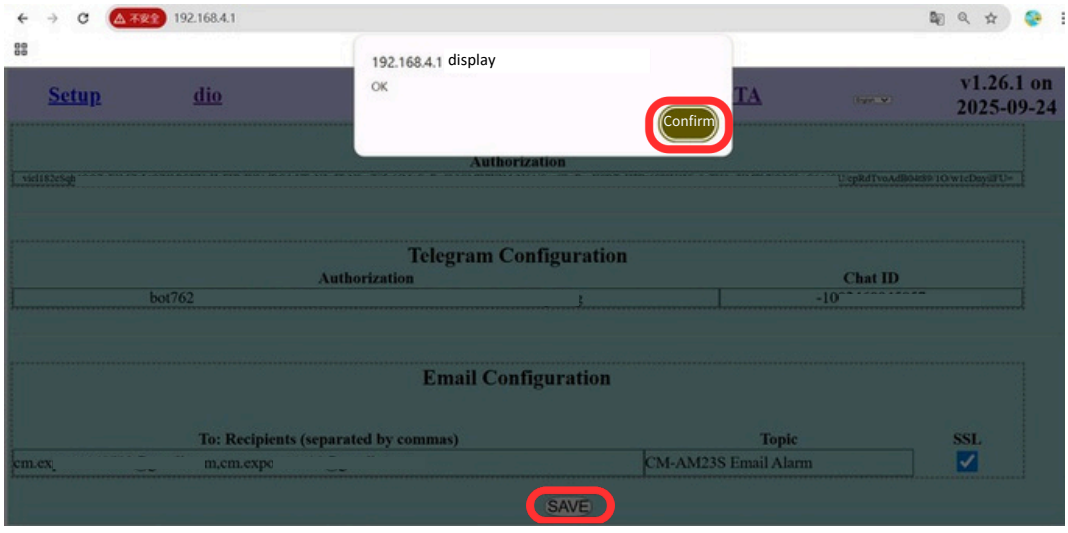
① Settings page: Enter Line, Telegram and Email configuration.

a. Line: Channel access token
b. Telegram: Enter token and Chat ID.
c. Email: Enter your Email and preferred Topic (Subject).

Remark: If you want to connect more than one email address, please separate them with commas and do not leave any spaces.

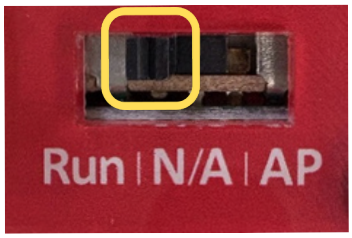


② Click save and confirm to save all the settings.



③Unplug the power first, switch to Run mode, and then plug the power back in.
When the green light turns on, it means the module is connected to Line, Telegram and email.







13.Receive the push notifications

① If a fire alarm occurs, you will receive a push notification.







② You will receive a push notification when the fire alarm is cleared.





