



PROFLAME WIFI DONGLE

USE AND INSTALLATION INSTRUCTIONS

Read the instructions before use.

These instructions must be read in conjunction with PROFLAME IFC (FFRT 5) CONTROL BOARD Use and Installation Instructions and PROFLAME Transmitter Use and Installation Instructions.



INTRODUCTION

Proflame fireplaces can be remotely controlled by Android/iOS Proflame Connect application. A virtual assistant could be available using Amazon Alexa and Google Assistant.

The connectivity to the Proflame IFC is provided by Proflame WiFi Dongle. The dongle is connected to the IFC through X0A serial port and it connects to an existing WiFi network.

The setup of Proflame WiFi Dongle is done creating a standalone WiFi network with a dedicated access point.

The app allows to remotely control the fireplace using only the local connection: all data are exchanged in the local WiFi and no packets are exchanged with external servers.

Only with virtual assistants Alexa and Google Assistant, the dongle has a connection outside the local WiFi, connecting to the Amazon Web Services (AWS). This it is a secure connection.

Android and iOS applications can be found in their respective stores: Play Store and App Store.

PROFLAME CONNECT HARDWARE

THE HARDWARE KIT

Proflame Connect hardware kit is described in Fig.1.

It is composed by:

- IFC.
- Remote control.
- Cable: to connect the WiFi dongle to the IFC through the serial port.
- WiFi dongle.

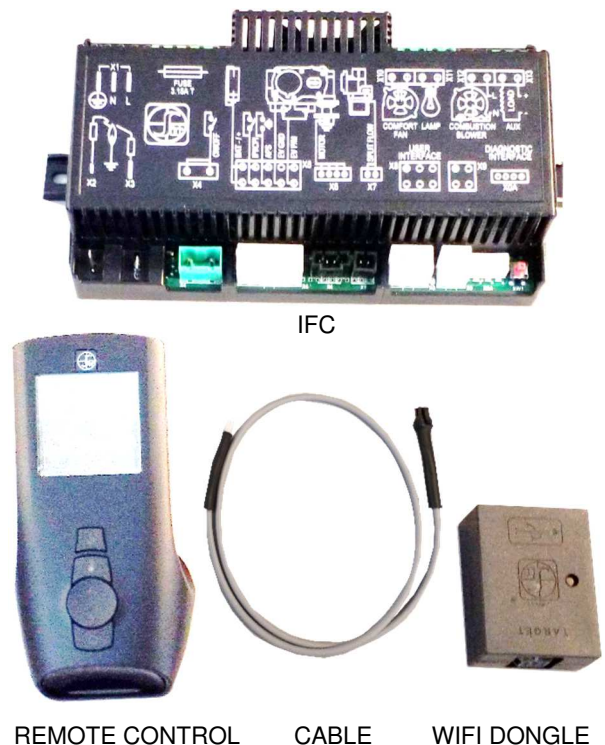


Fig.1: Proflame Connect kit

INSTALLATION

To install the Proflame Connect kit it is necessary to turn off the gas appliance and to disconnect the power supply. Steps to the install the kit:

1. Remove the old IFC and replace it with the new IFC, provided with the Proflame Connect kit.
2. Connect the WiFi dongle to the IFC with the provided cable through X0A connector, as displayed in figure 2

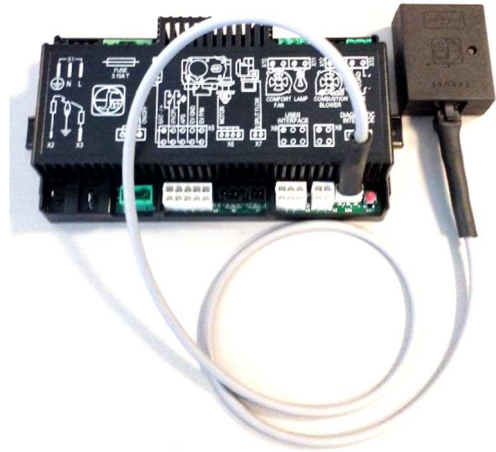


Fig.2: Proflame IFC – Dongle connection

THE WIFI DONGLE

The Wifi dongle provides WiFi connectivity to the Proflame system. Through its connection, the system can be controlled by the Android and iOS application. The dongle, powered on, is showed in Fig.3.

⚠ The Dongle only connects to 2.4 GHz WiFi networks.

The user can interact with the dongle through:

- Button: pressing it, the dongles switches operating mode.
- Green and red led: give information about the dongle status.




Fig.3: WiFi dongle connected to the IFC

Led states reflect the dongle status. In order of priority, they are described in the following table:

Red led	Green led	Additional info	Meaning
blinking	blinking	Synchronized, period of 0,5 sec	Error in flash memory
blinking	off	Period of 0,5 sec	Error in IFC reading
blinking	off	Period of 1 sec	Error in IFC writing
on	on		Working in AP mode
blinking	blinking	Alternately, period of 1 sec	Connecting to the local WiFi network
off	on		Connected and working normally
blinking	blinking	Together, period of 0,1 sec	OTA update (optional)

PROFLAME CONNECT APPLICATION

 The GPS must be enabled for the correct functioning of the app (Google/Apple requirement).

ANDROID INSTALLATION



Fig.4: Proflame Connect app for Android.

Proflame Connect app for Android can be found in the Play Store. It is available for Android 5.1 or greater. The app doesn't work with previous Android versions.

IOS INSTALLATION

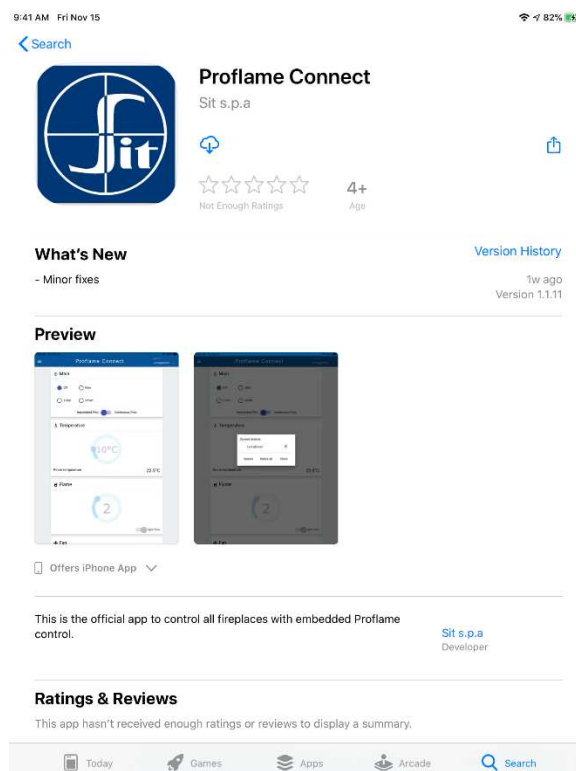


Fig.5: Proflame Connect app for iOS.

Proflame Connect application for iOS can be found in the App Store. It is available for iOS 10.0 or greater. The app doesn't work with previous iOS versions.

USER INTERFACE

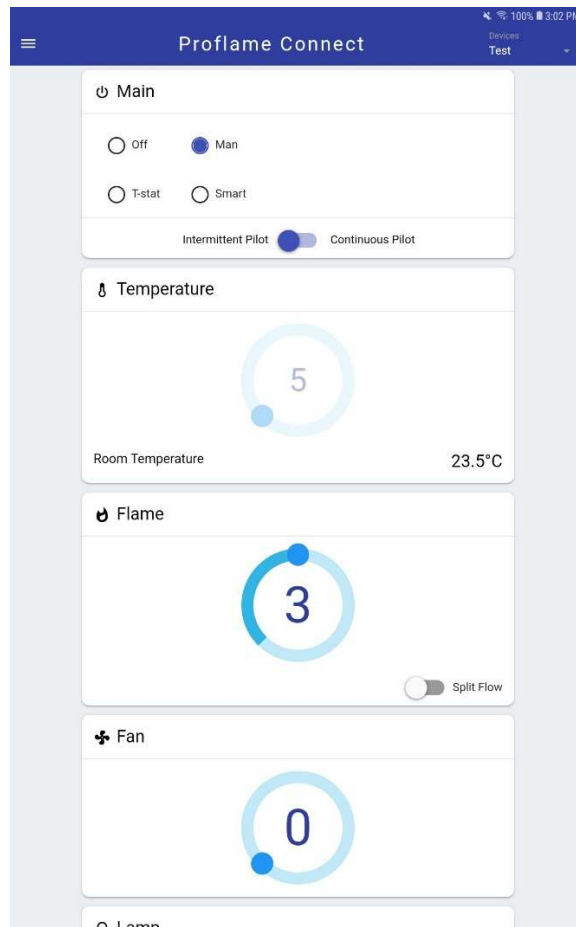


Fig.6: User interface.

The user interface is described in figure 6.

Each control can be set by the related tab on the main page.

Controls are described as follows:

- **Main Mode:** the operating mode. It can be set in Off state, Manual Mode, Thermostat Mode or Smart-Thermostat Mode.
- **Pilot:** the pilot flame function. It can be set in intermittent or continuous.
- **Temperature:** the temperature set. It can be set in the temperature interval 5°C ... 35°C, or 41°F ... 95°F if the temperature unit is set to Fahrenheit.
- **Flame:** the flame level. It can be set in the interval 0...6.
- **Fan:** the fan level. It can be set in the interval 0...6.
- **Lamp:** the light level. It can be set in the interval 0...6.
- **Auxiliary output:** the auxiliary output. It can be set in on or off state.
- **Split flow:** the split flow function. It can be set in on or off state.

In the temperature tab, the room temperature is displayed. This is the temperature measured by the radio command and sent to IFC.

The main menu appears by pressing the hamburger menu on the top left of the page. In this menu there are four functions and some information are displayed:

- **Manage devices:** this button opens the window devoted to fireplaces management. From this window, user can manage, find, add and remove fireplaces connected to the local WiFi network.
- **Configure new fireplace:** this button starts the configuration procedure for a fireplace that needs to be connected to the local WiFi network.

- **Colors:** this button opens a window that allows the user to change the colors of the application.
- **Temperature unit** switch: this switch allows the user to change the temperature unit.

The name of the selected fireplace is displayed on the top right of the page. Pressing it, a drop down menu appears. The user can select any fireplace between the listed ones.

CONFIGURE/RE-CONFIGURE A DEVICE WITH ANDROID APP

If a device has already been configured with an older version of Proflame Connect App, you must follow the following steps:

- **Delete** the previous Proflame Connect app.
- **Delete** the dongle WiFi network named "PROFLAME_AP_XXXXXXXXXXXX" from the networks saved into your smartphone.
- **Put the dongle in configuration mode** keeping pressed the button until green and red lights turn on.
- **Connect the smartphone to the local WiFi** network.

To configure the Dongle to connect to the local WiFi network, or to reset a fireplace to connect to a different network, the configuration procedure is needed. The configuration can be started with the "Configure new fireplace" button, located in the hamburger menu.

To use your new Fireplace on your smart device, follow the following steps:

- Wait for the fireplace to be detected.



Seaching for a Fireplace to configure

Fig.7: configuration part 1.

- When the fireplace is detected, press the Next button.

Your Fireplace is ready to be configured. Press 'Next' to proceed...

Fig.8: configuration part 2.

- Enter your WiFi password and press Next.

Enter your WiFi password (elred_ap):

Password

Fig.9: configuration part 3.

- Insert a fireplace name and press Next.

Name your Fireplace:

Test

Fig.10: configuration part 4.

- If you want to use your fireplace with Virtual Assistants, please insert below the 8-chars Pairing Key that you received by email.
To get the key to use voice commands you need to register your device on the registration web page, if you don't want to use voice commands, leave the field blank and press next.

To pair your Fireplace with a virtual assistant enter your pairing key (received by email). Leave blank to skip this step.

Pairing Key

Fig.11: configuration part 5.

- The configuration procedure is completed.

Configuration complete



Fig.12: Configuration part 6

CONFIGURE/RE-CONFIGURE A FIREPLACE WITH IOS APP

If a device has already been configured with an older version of Proflame Connect App, you must follow the following steps:

- **Delete** the previous Proflame Connect app.
- **Delete** the dongle WiFi network named "PROFLAME_AP_XXXXXXXXXXXX" from the networks saved into your smartphone.
- **Put the dongle in configuration mode** keeping pressed the button until green and red lights turn on.
- **Connect the smartphone to the local WiFi** network.

To configure the Dongle to connect to the local WiFi network, or to reset a fireplace to connect to a different network, the configuration procedure is needed. The configuration can be started with the "Configure new fireplace" button, located in the hamburger menu.

To use your new Fireplace on your smart device, follow the following steps:

- The application will ask you to connect to the 'Proflame_AP' WiFi network to continue the configuration by pressing 'Join'.

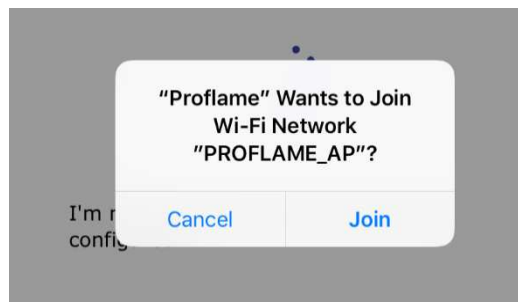


Fig.13: configuration part 1.

- Wait for the fireplace to be detected.



Seaching for a Fireplace to configure

Fig.14: configuration part 2.

If the dongle fails to connect automatically to the Dongle's WiFi network, the following message will appear:

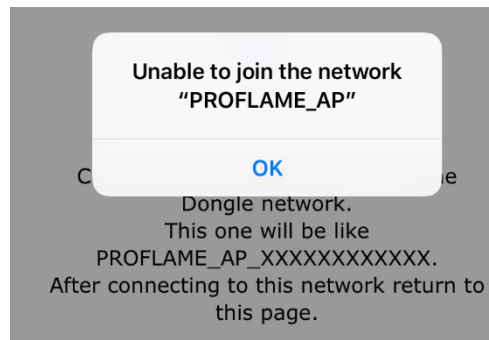


Fig.15: dongle fails to connect automatically

This message is due either to the presence of outdated software inside the dongle or to the fact that the Dongle is not in configuration.

If the Dongle is in configuration mode, the application waits the smartphone to connect to the "PROFLAME_AP_XXXXXXXXXXXX" WiFi network (Password:password), Fig.16 . The user must connect manually to this network by exiting from the Proflame Connect app and entering into the WiFi manager of the device. Here the user must select the WiFi network of the fireplace to configure. After this, the user has to go back to the Proflame Connect app.



Connect your device to the Proflame
Dongle network.
This one will be like
PROFLAME_AP_XXXXXXXXXXXX.
After connecting to this network return to
this page.

Fig.16: the application waits the device connects.

- When the fireplace is detected, press the Next button.

Your Fireplace is ready to be configured. Press
'Next' to proceed...

Fig.17: the fireplace is detected.

- Enter your WiFi password and press Next.

Enter your WiFi password (elred_ap):

Password

Fig.18: connect to your WiFi network.

- Insert a fireplace name and press Next.

Name your Fireplace:

Test

Fig.19: insert fireplace name.

- If you want to use your fireplace with Virtual Assistants, please insert below the 8-chars Pairing Key that you received by email.
To get the key to use voice commands you need to register your device on the registration web page, if you don't want to use voice commands, leave the field blank and press next.

To pair your Fireplace with a virtual assistant enter your pairing key (received by email). Leave blank to skip this step.

Pairing Key

Fig.20: Fireplace Virtual Assistant.

- The configuration procedure is completed.

Configuration complete



Fig.21: Configuration procedure completed.

SEARCH FOR NEW FIREPLACES JUST CONFIGURED

Configured fireplaces, connected to the local WiFi network, must be found by the application. The search procedure is needed to find all connected fireplaces. Once the fireplace is found by the app, this one is saved and can be selected on the top right of the main page. The fireplace can be selected even after closing and reopening the app, without searching again.

To search for new fireplaces, the user must press “Manage devices” button. The selection window lists all known fireplaces and allows the user to manage them. Selecting “Search” button, the application performs a local network scan to update configured fireplaces. When a new fireplace is found, it is inserted into the list. Pressing the “x” button near the fireplace name, the fireplace is removed. To delete all known fireplaces, the user must press “Delete all” button. “Close” button closes the management window.

All known fireplaces, configured and found by the application, can be selected from the management window or by the top right area of the main page.

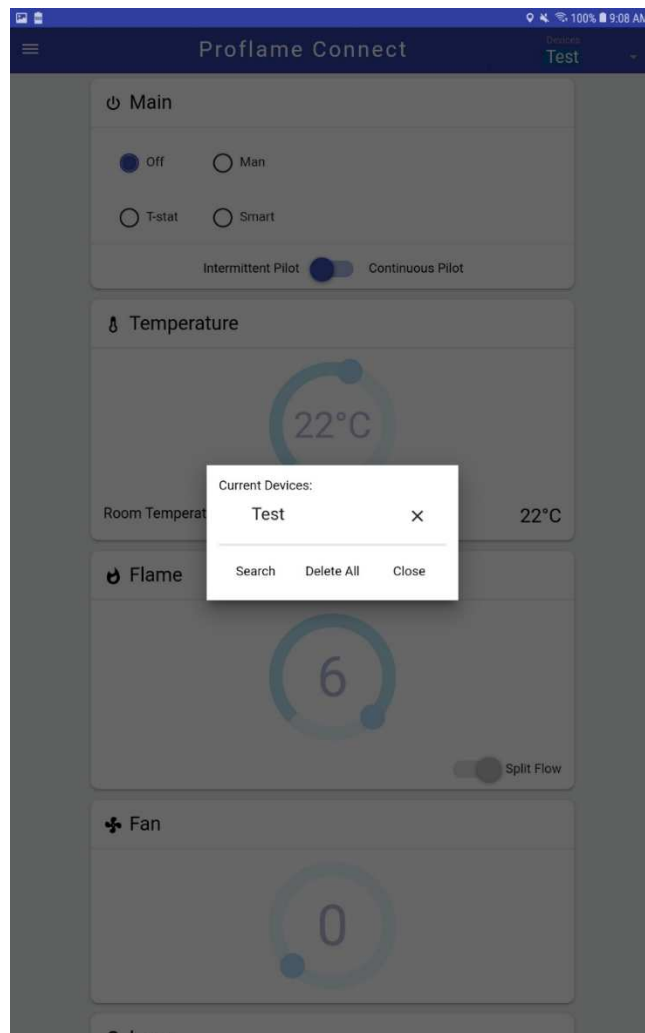


Fig.22: manage device window.

TEMPERATURE UNIT

In the top left hamburger menu, the temperature unit switch changes the temperature unit displayed in the whole application. All showed temperatures in the application are converted, with the related temperature unit.

CONTROLS IN LOCAL CONNECTION AND CLOUD STATE

All available controls of each fireplace are reachable from the main page of the application. The displayed status reflects the status of the selected fireplace, showed on the top right area.

More users can control a fireplace at the same time. When a user sends a command, this command is reflected to all users working on that fireplace.

In case voice commands by Google and Alexa are activated, to ensure the smart assistants compatibility, each command sent by the application updates the cloud state related to the selected fireplace. The state modified over the local WiFi network by the application is reflected to the cloud, so the smart assistants know exactly what is the current state of each fireplace.

Conversely, a command sent by the user by means of a smart assistant, passing through the cloud AWS services, when received by the fireplace is reflected to all devices connected over the local WiFi network. All apps connected to the fireplace are updated with each cloud command.

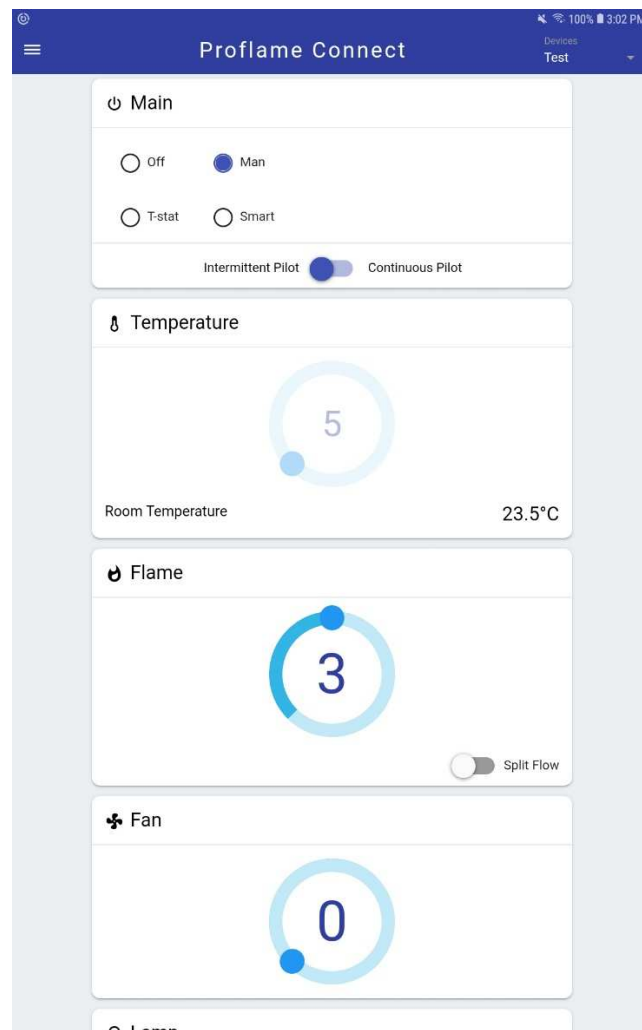


Fig.23: application main page.

SMART ASSISTANTS

FIREPLACE REGISTRATION FOR VIRTUAL ASSISTANTS

To be able to use the vocal commands with the fireplace for Alexa and Google you must first register your own fireplace to:

<https://registration.proflameconnect.com/>

To register a new user press “Register a new membership”:

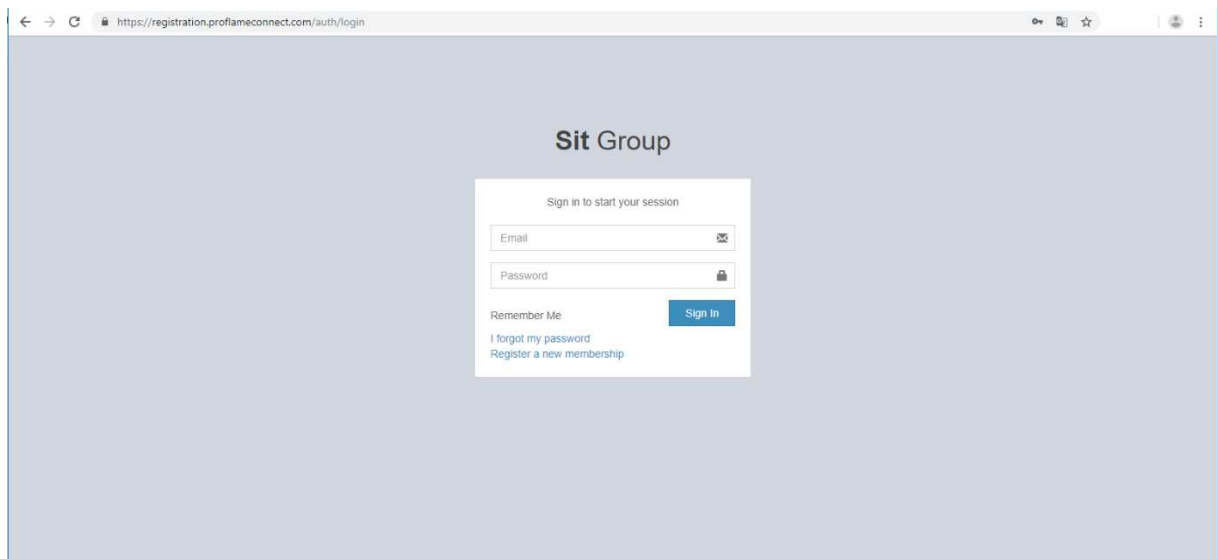


Fig.24: Login Page.

Complete the information requested and press “Register”:

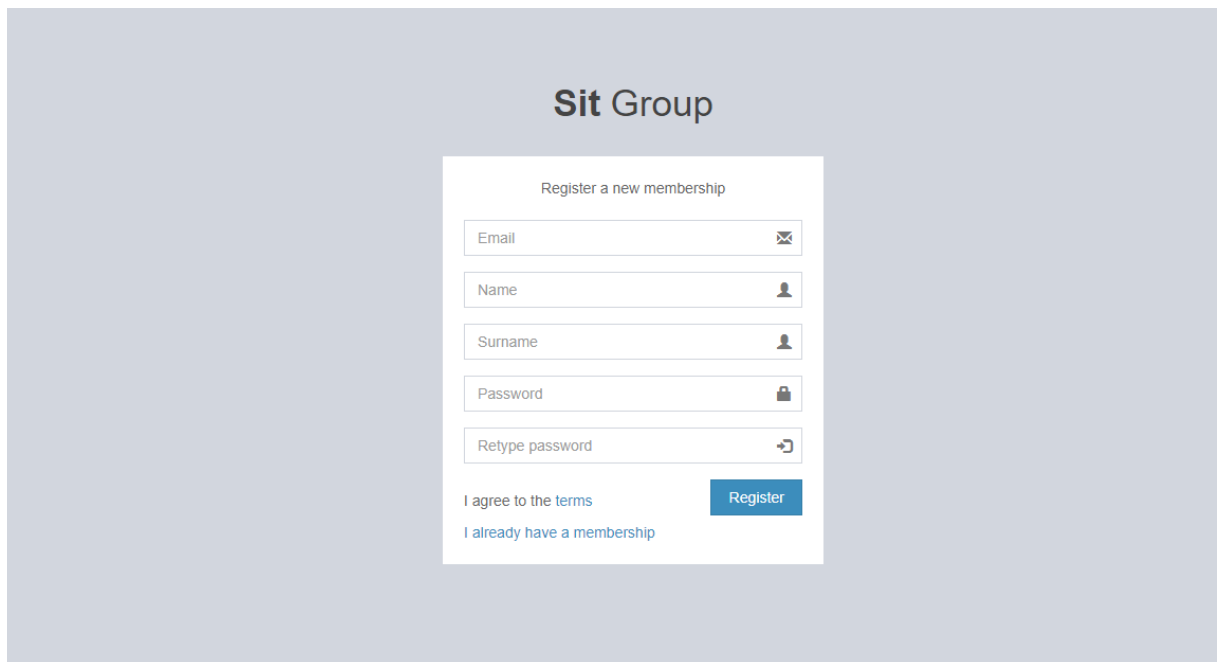


Fig.25: registration webpage.

The code to enable the account will be sent to the email entered during registration:

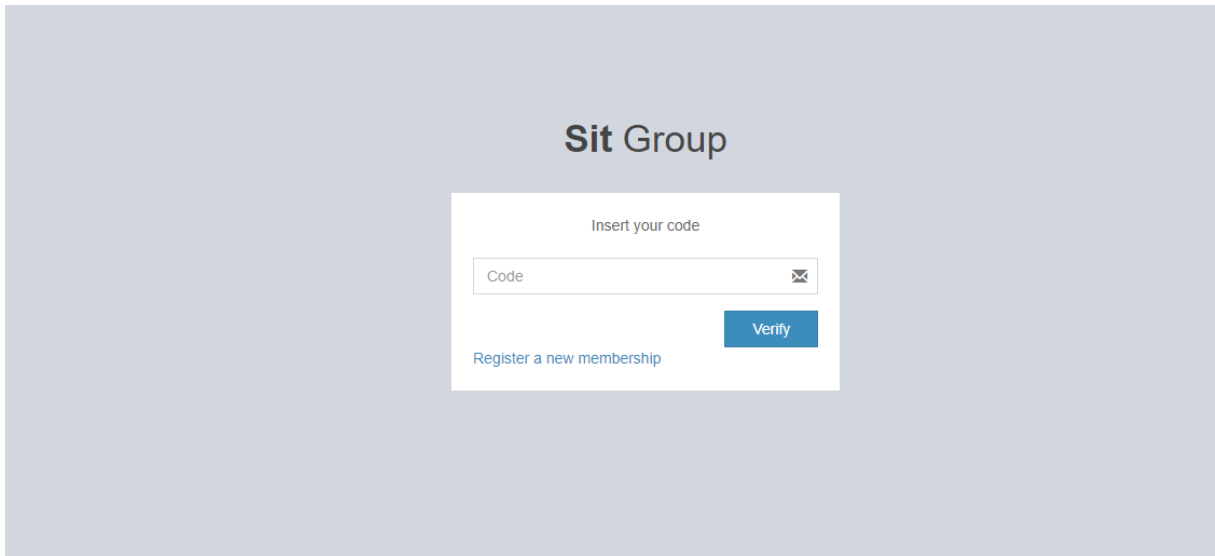


Fig.26: registration webpage, verification code.

NB: This code is only to enable the account, it is not the code to insert in the App to use the voice commands.

After registration you can add fireplace MAC in the menu “Register”.

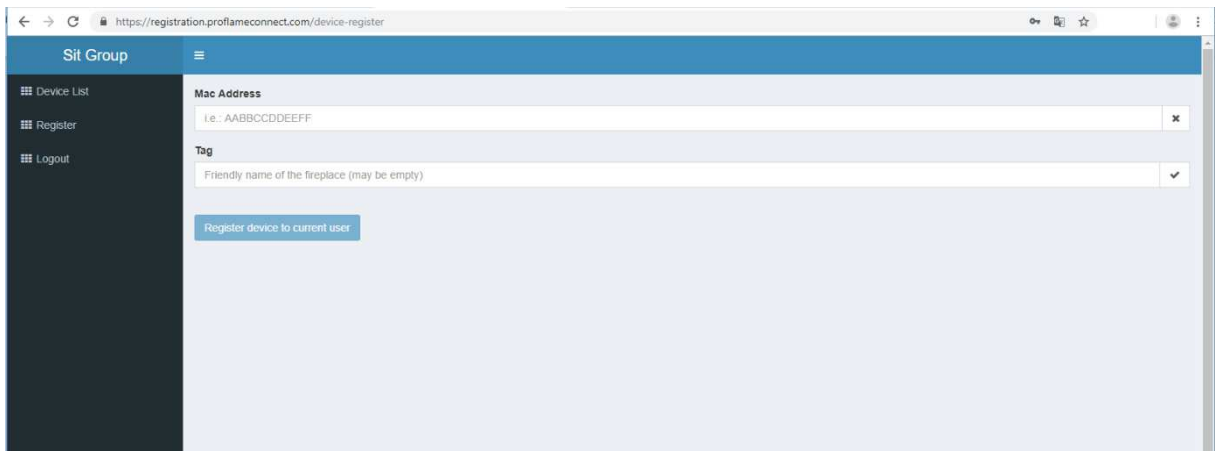


Fig.27: add fireplace.

The fireplace MAC must not contain spaces or the ":" character. In the next image there is an example. In “Tag” enter the name to be given to the fireplace for the use of voice commands. If the Tag field is left empty, in the voice commands it is not necessary to specify the name of the fireplace. If you want to register multiple fireplaces, only one may have no name. Therefore, no name should be put in the voice commands in this case.

⚠ The name of the fireplace cannot be a “fireplace” or ”fire” and must be a single word.

Sit Group

Device List

Register

Logout

Mac Address

a1b23eab65f0

Tag

Living

Register device to current user

Fig.28: example registration fireplace.

After entering the MAC code, a Pairing key will be displayed (the Pairing key is required on the Proflame Connect app to access the voice commands).

MAC	Name	Pairing key
A1B23EAB65F0	living	72ce06ef

Fig.29: pairing Key.

To change the name of the fireplace, press the magnifying glass symbol:

MAC	Name	Pairing key
000000000000	test	3f8f73d0

Fig.30: change the name of the fireplace.

Press "Modify device" to save changes:

The screenshot shows a web interface for configuring a device. On the left is a dark sidebar with 'Sit Group' at the top and three menu items: 'Device List', 'Register', and 'Logout'. The main area has a light blue header with a hamburger menu icon. Below the header, there are three input fields, each with a green border and a green checkmark icon on the right: 'Mac Address' with the value '000000000000', 'Tag' with the value 'Test', and 'Pairing key' with the value '643bcbff'. At the bottom of the main area is a blue button labeled 'Modify device'.

Fig.31: save name of the fireplace.

To delete the possibility of controlling the fireplace with voice commands, press to select trash:

The screenshot shows the same web interface as Fig.31, but the main area displays a table instead of the configuration form. The table has three columns: 'MAC', 'Name', and 'Pairing key'. There is one row of data with the values '000000000000', 'test', and '2ce48167'. To the right of the data row is a trash can icon, which is circled in red. The sidebar and header are identical to the previous figure.

MAC	Name	Pairing key
000000000000	test	2ce48167

Fig.32: Delete Fireplace.

CONFIGURE ALEXA ON THE ANDROID OR IOS DEVICE

To use voice commands on Amazon devices you need to download the Alexa app from the Google store.

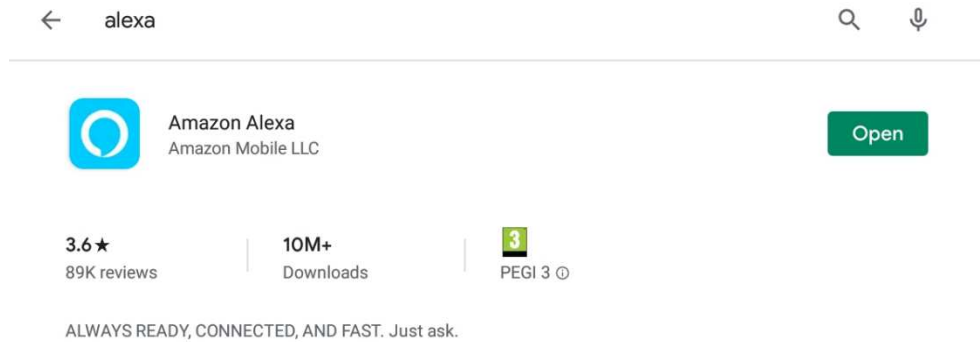


Fig.33: Amazon Alexa.

To use voice commands on your smart device follow the following steps:

- Open the Alexa app and press “More” at the bottom of the main screen.

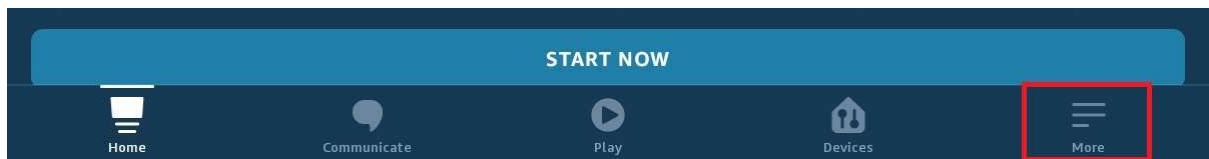


Fig.34: Amazon Alexa configuration part 1.

- Press “Skill & Games”.

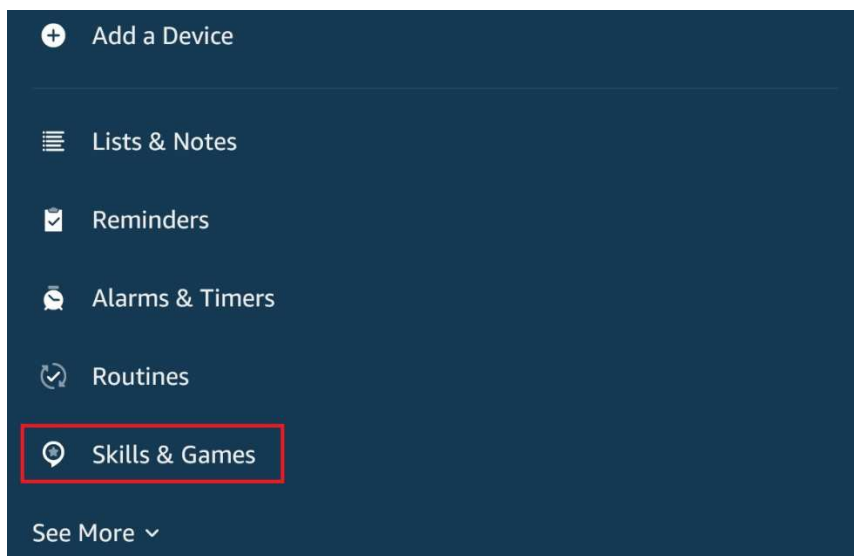


Fig.35: Amazon Alexa configuration part 2.

- Press Search.



Fig.36: Amazon Alexa configuration part 3.

- Now search for voice commands “Proflame Connect”.

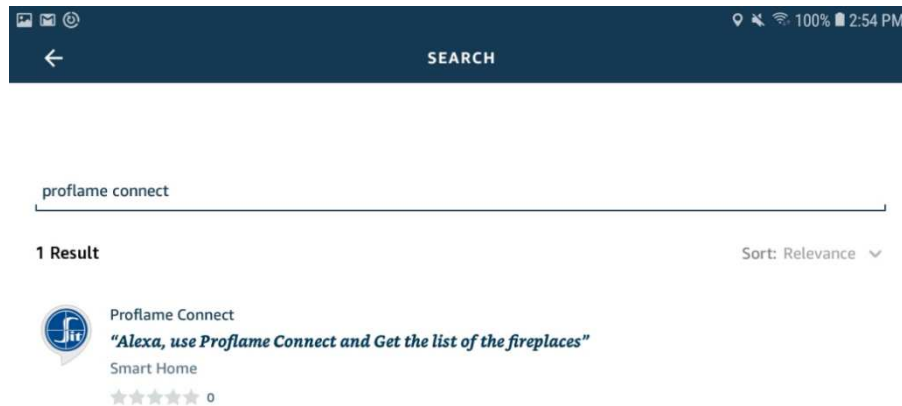


Fig.37: Amazon Alexa configuration part 4.

- Press “Launch”.

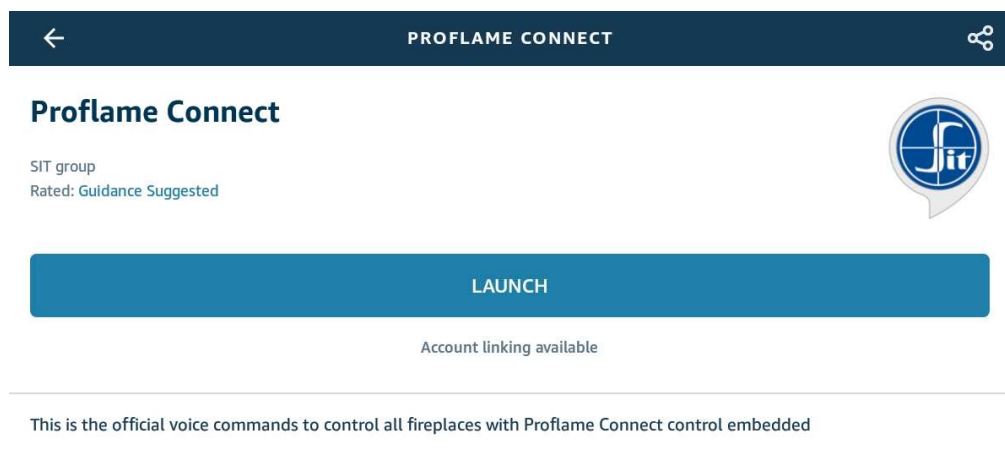


Fig.38: Amazon Alexa configuration part 5.

- Press your Alexa device

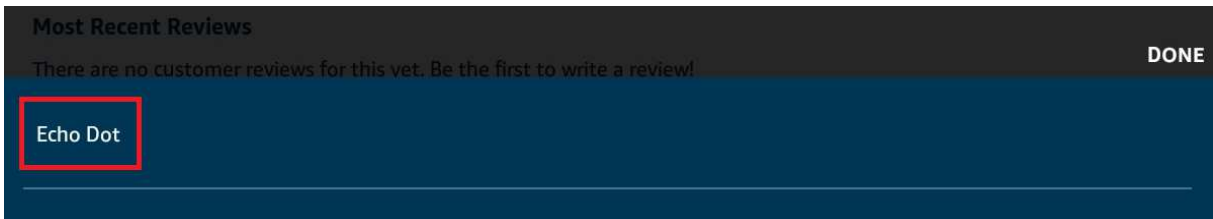


Fig.39: Amazon Alexa configuration part 6.

- Press “Settings”.

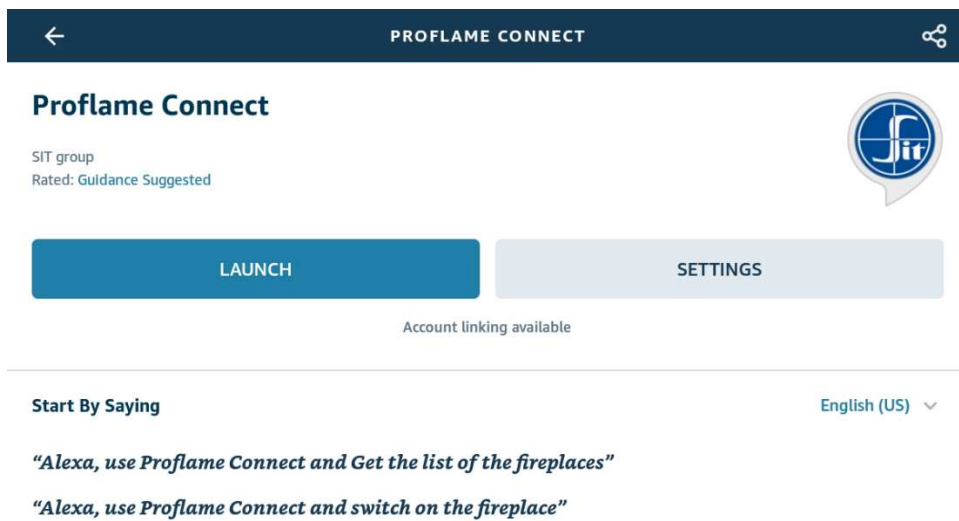


Fig.40: Amazon Alexa configuration part 7.

- Press “Link Account”.

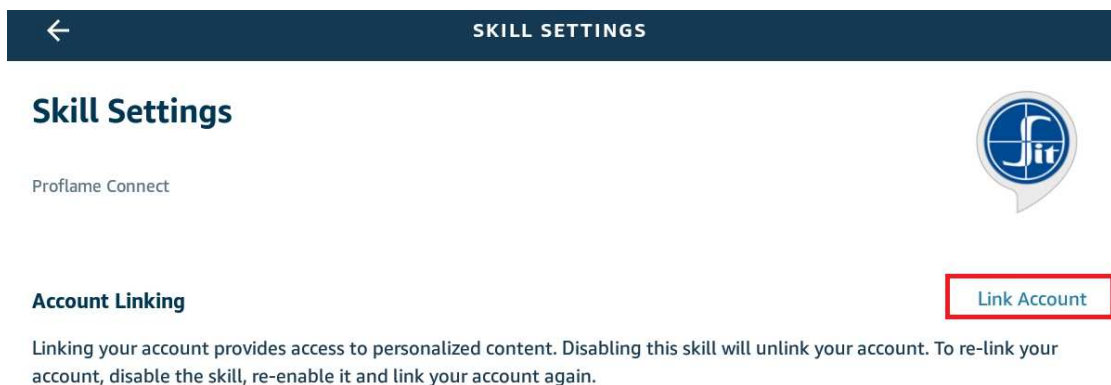


Fig.41: Amazon Alexa configuration part 8.

- Connect the same account used for <https://registration.proflameconnect.com/>

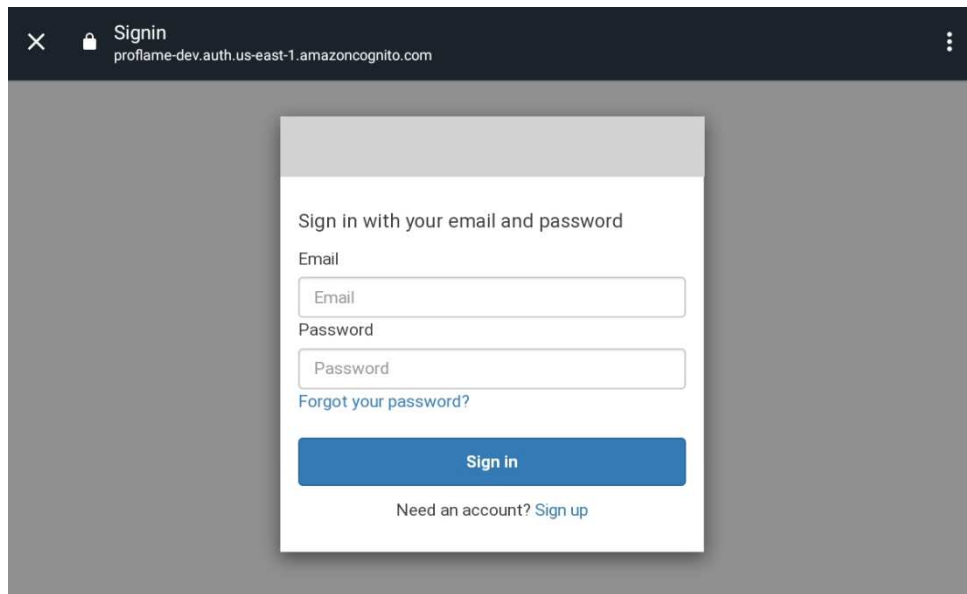


Fig.42: Amazon Alexa configuration part 9.

- The following screen will appear:



Your Proflame Connect account has been successfully linked.

Fig.43: Amazon Alexa configuration part 10.

- Now you can use voice commands.
- An example of a voice command is: Alexa, **use** Proflame Connect and get the list of the fireplaces.

CONFIGURE GOOGLE ASSISTANT ON THE ANDROID DEVICE

To use voice commands on Google devices you need to download the Google Home app from the Google store.

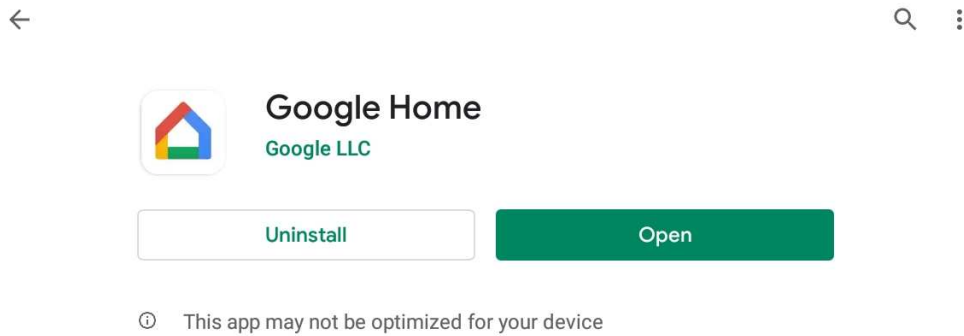


Fig.44: Google Home.

To use voice commands on your smart devices, follow the following steps:

- Open the Google Home app and press user icon.

+

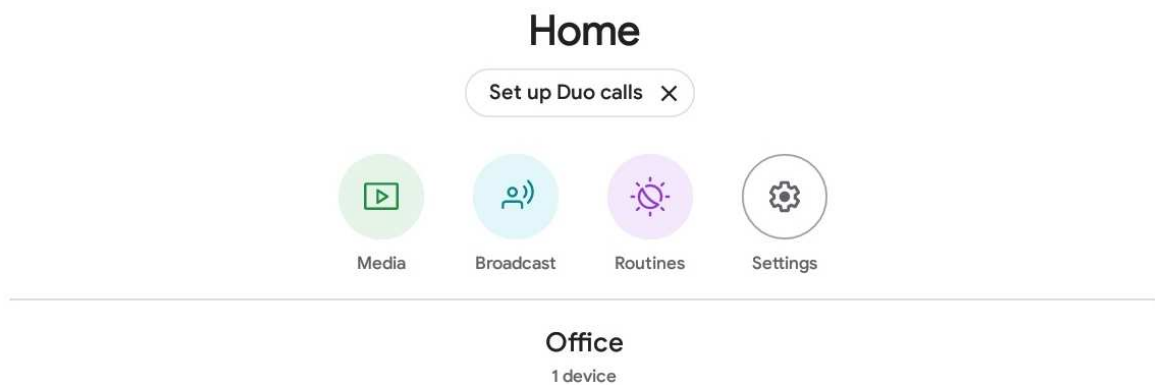


Fig.45: Google Home configuration part 1.

- Open “Assistant settings”.

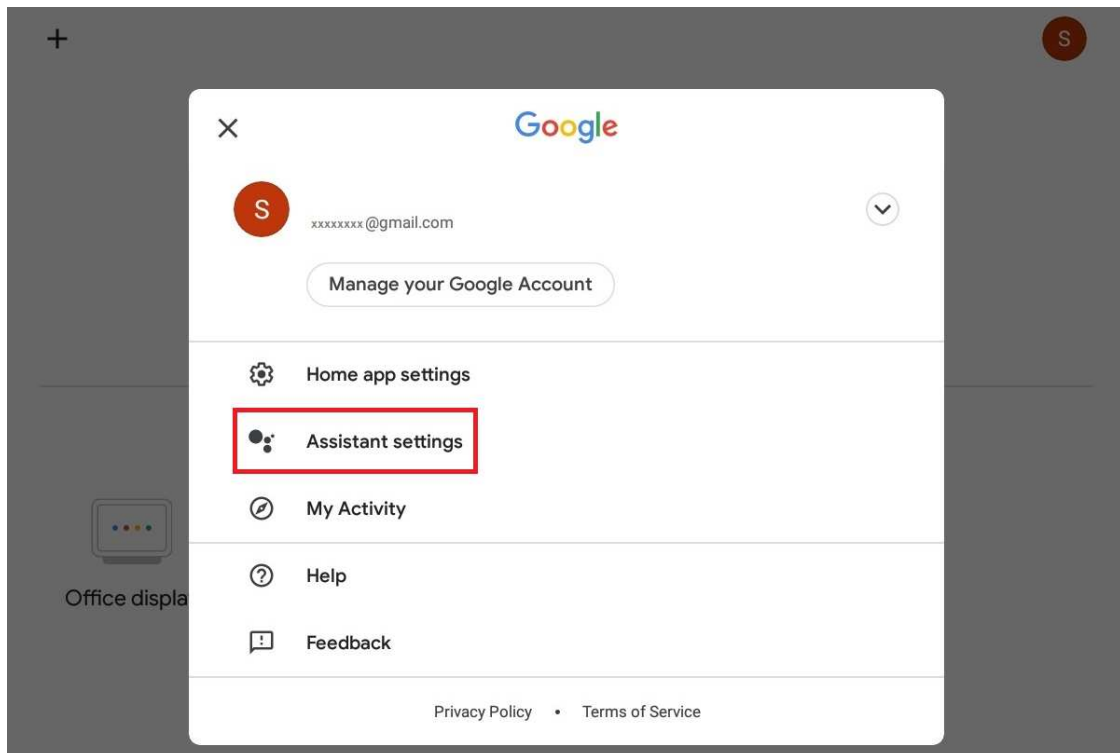


Fig.46: Google Home configuration part 2.

- Press “Explore”.

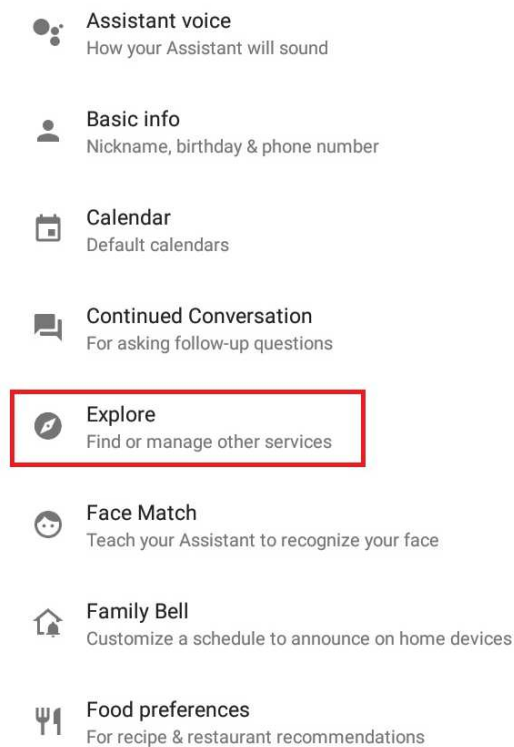


Fig.47: Google Home configuration part 3.

- Now search for voice commands “Proflame Connect” and press the icon.



Fig.48: Google Home configuration part 4.

- Press “Link”.

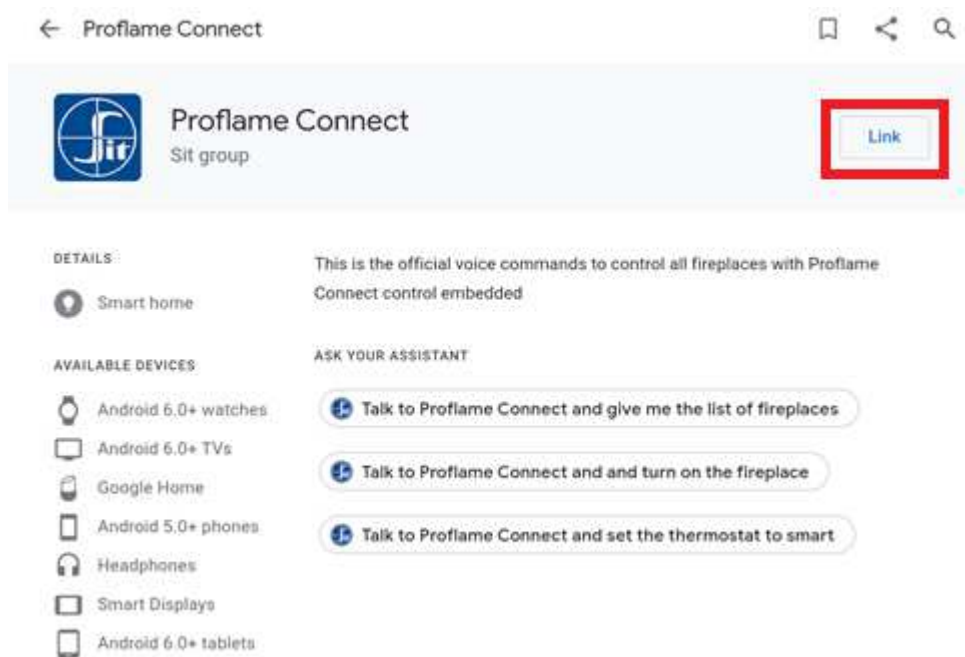


Fig.49: Google Home configuration part 5.

- Connect the same account used for **<https://registration.proflameconnect.com/>**

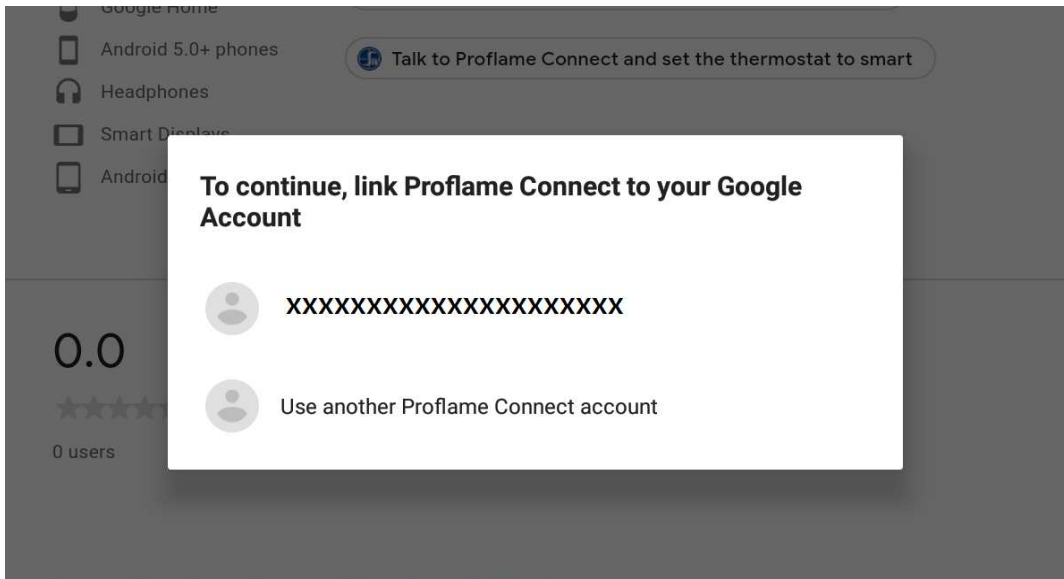


Fig.50: Google Home configuration part 6.

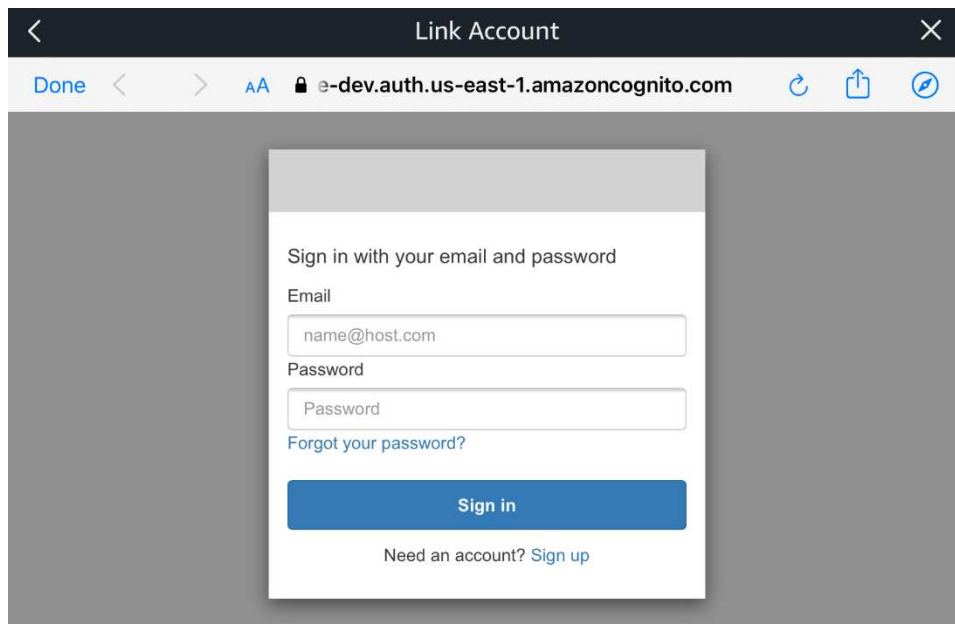


Fig.51: Google Home configuration part 7.

- Now you are ready to use voice commands.
An example of a voice command is: "Google, **talk to** Proflame Connect and get the list of the fireplaces".

CONFIGURE GOOGLE ASSISTANT ON THE IOS DEVICE

To use voice commands on Google devices you need to download the Google Assistant app from the App store

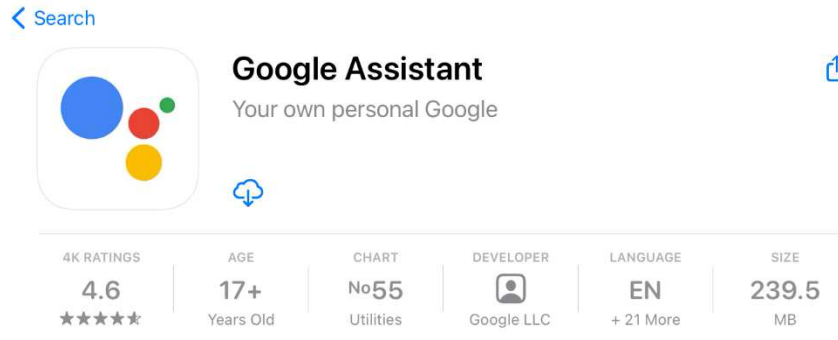


Fig.52: Google Assistant.

To use voice commands on your smart devices, follow the following steps:

- Open the Google Assistant app and use the same account used for the Google home device.

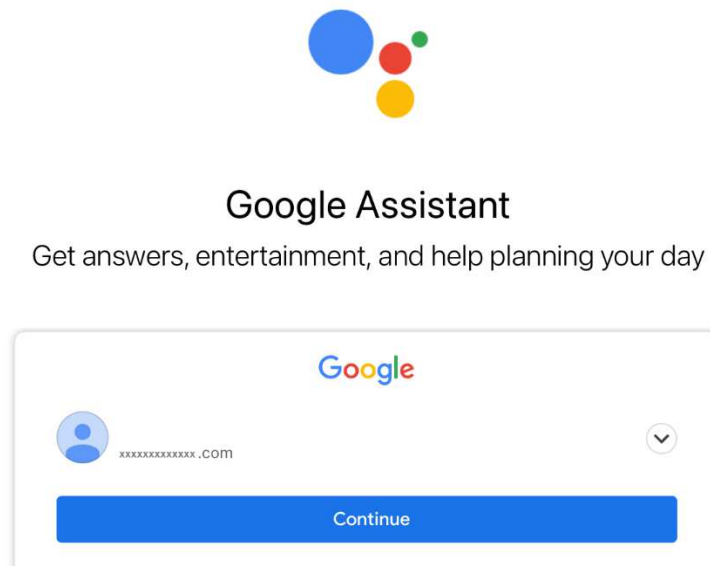


Fig.53: Google Assistant configuration part 1.

- Press “Explore” icon.

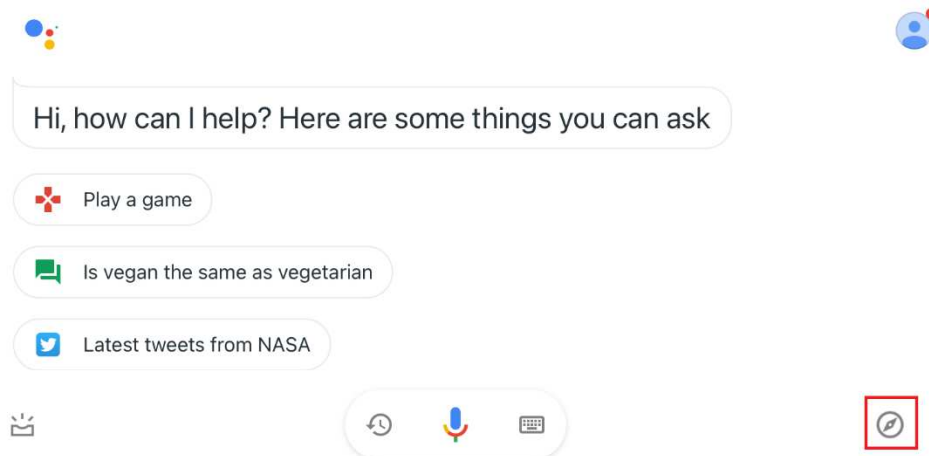


Fig.54: Google Assistant configuration part 2.

- Now search for voice commands “Proflame Connect” and press the settings icon.



Fig.55: Google Assistant configuration part 3.

- Press “Link”.

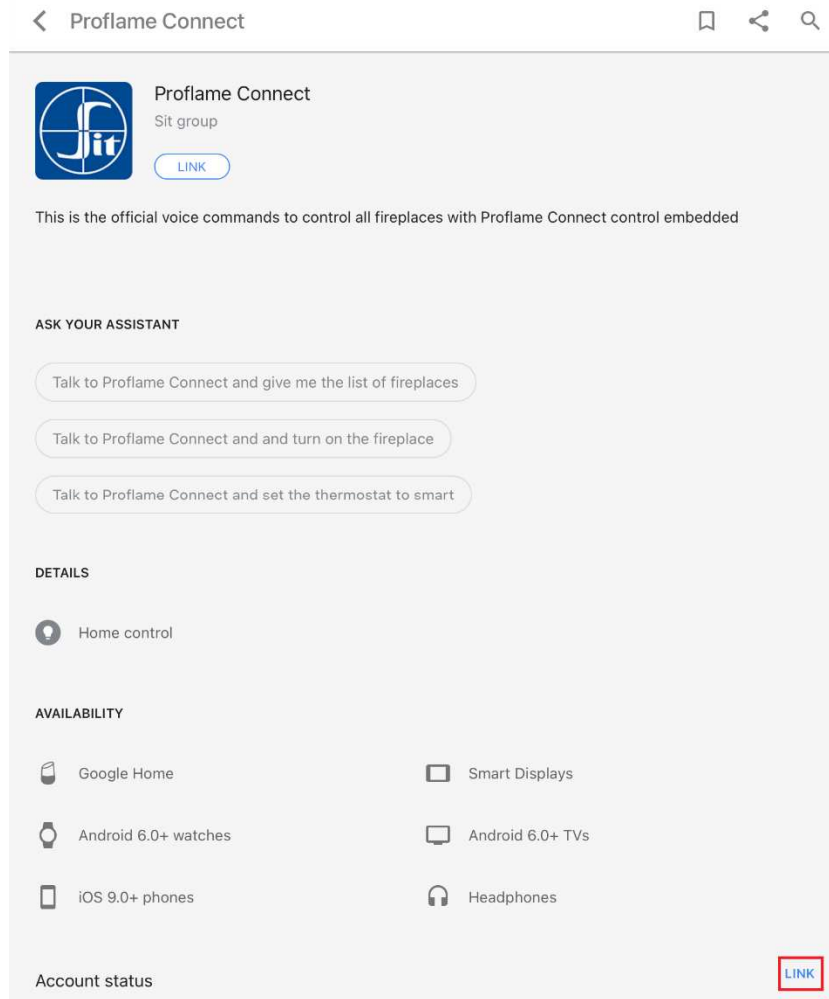


Fig.56: Google Assistant configuration part 4.

- Connect the same account used for <https://registration.proflameconnect.com/>

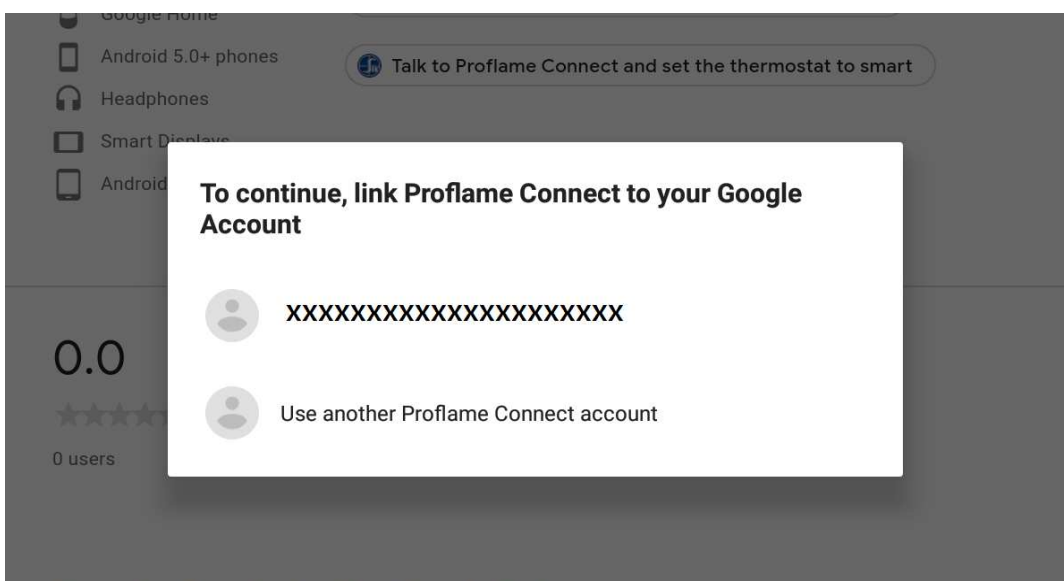


Fig.57: Google Assistant configuration part 5.

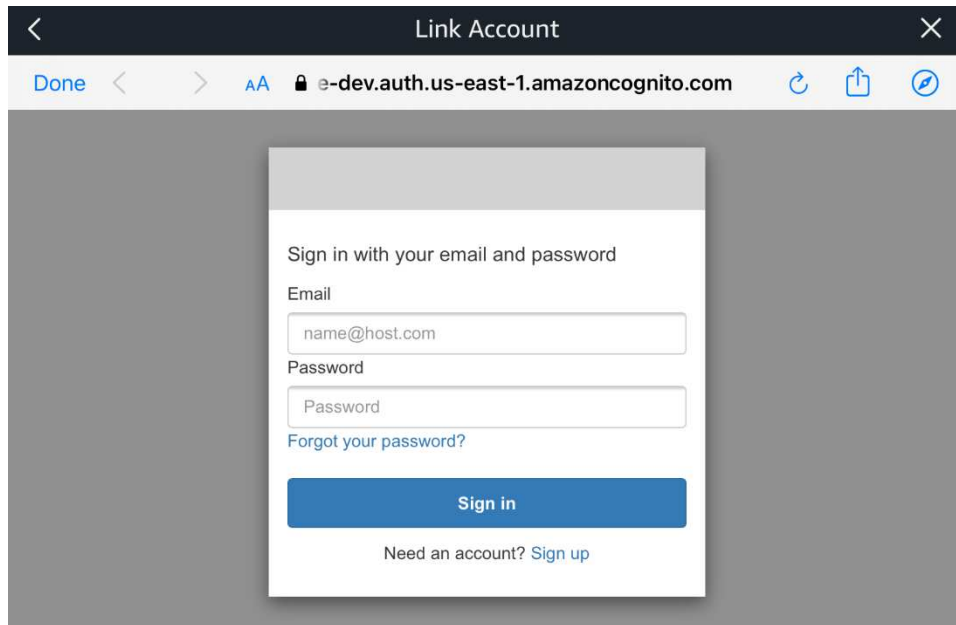


Fig.58: Google Assistant configuration part 6

- Now you are ready to use voice commands.
An example of a voice command is: "Google, **talk to** Proflame Connect and get the list of the fireplaces".

CONFIGURE GOOGLE ASSISTANT ON THE WEBPAGE

To use voice commands on your smart devices, follow the following steps:

- Open the open the following link for United State:
<https://assistant.google.com/explore/?hl=en-US>
or for Canada:
<https://assistant.google.com/explore/?hl=en-CA>
- Press “Sign in” and use the same account used for the Google home device.

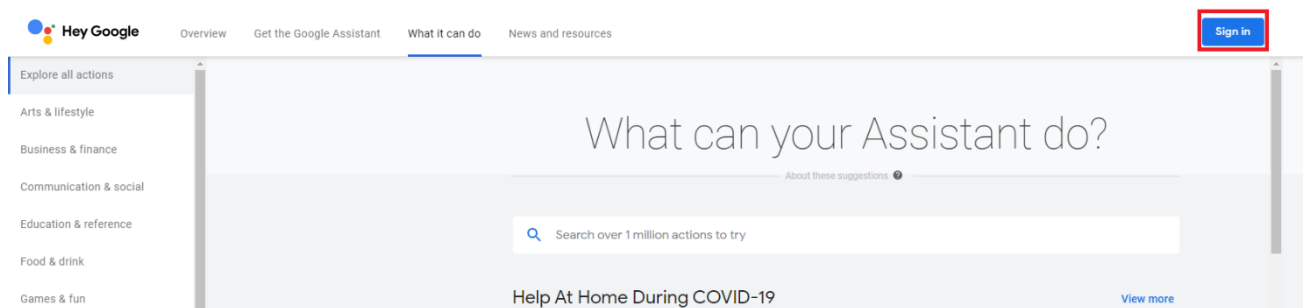


Fig.59: Google Assistant configuration part 1

- Now search for voice commands “Proflame Connect”.

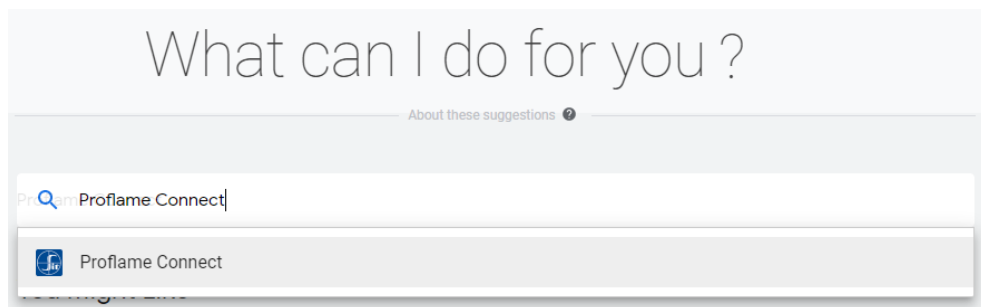
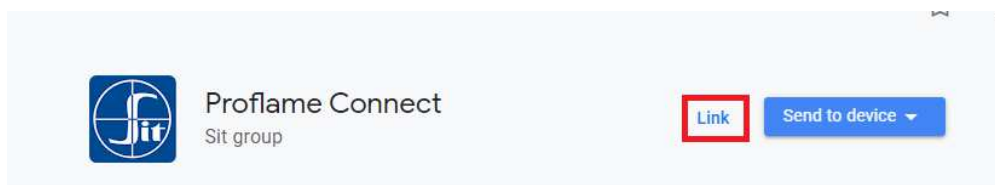


Fig.60: Google Assistant configuration part 2

- Press “Link”.



DETAILS

Smart home

This is the official voice commands to control all fireplaces with Proflame Connect control embedded

Fig.61: Google Assistant configuration part 3

- Connect the same account used for <https://registration.proflameconnect.com/>

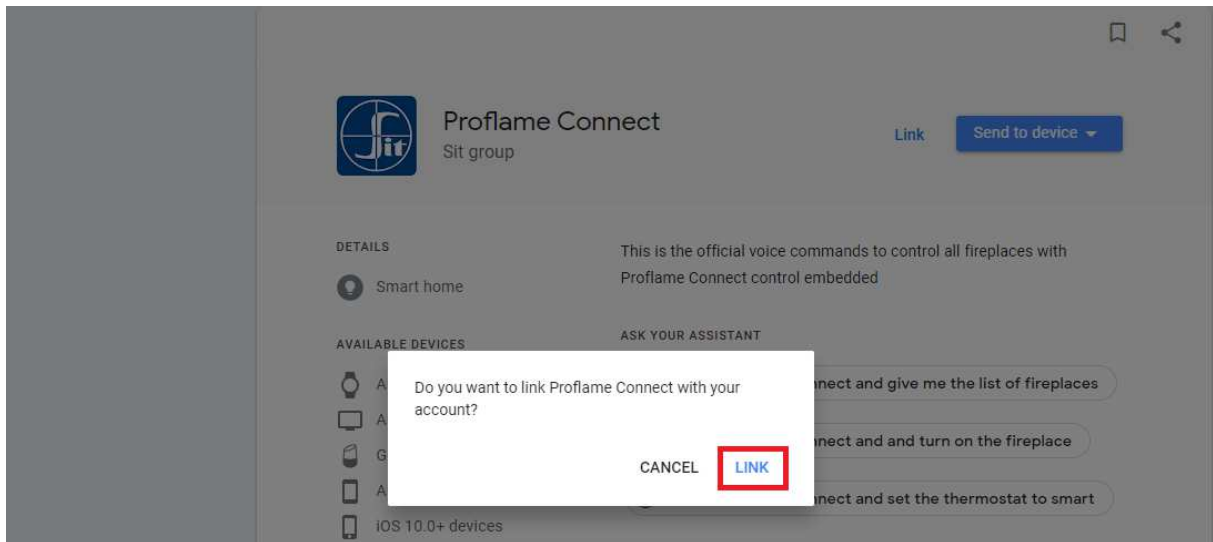


Fig.62: Google Assistant configuration part 4.

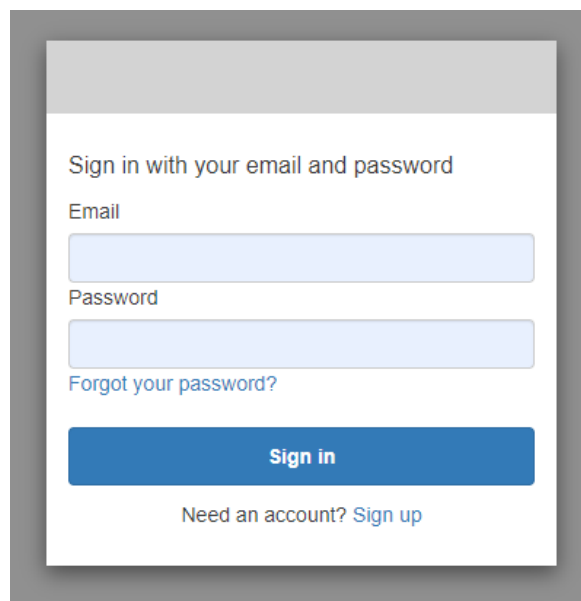


Fig.63: Google Assistant configuration part 5

- Now you are ready to use voice commands.
An example of a voice command is: "Google, **talk to** Proflame Connect and get the list of the fireplaces".

VOICE COMMANDS

In addition to Proflame Connect app, Proflame IFCs can be remote controlled by Amazon and Google smart assistants: Amazon Alexa and Google Assistant. Both smart assistants can set and get status of all available controls of Proflame fireplace.

Alexa,	use	PROFLAME CONNECT	and to	SWITCH-ON SWITCH-OFF TURN - ON TURN-OFF	the	<room-name>	FIREPLACE FLAME FAN LAMP AUXILIARY- <i>OUT/OUTPUT</i> SPLITFLOW LED			of the	<room-name>
				SET SWITCH TURN			FIREPLACE AUXILIARY- <i>OUT/OUTPUT</i> SPLITFLOW LED MODE	to	ON OFF		
									CONTINUOUS- <i>PILOT</i> INTERMITTED- <i>PILOT</i> THERMOSTAT MANUAL- <i>THERMOSTAT</i> SMART- <i>THERMOSTAT</i>		
							PILOT		CONTINUOUS INTERMITTED		
							THERMOSTAT		MANUAL SMART AUTO		
							TEMPERATURE -UNIT MODE		CELSIUS FAHRENHEIT		
				SET SWITCH TURN			FLAME FAN LAMP		ON OFF MAXIMUM MINIMUM HIGH LOW 0..6		
							TEMPERATURE - <i>SET</i>		MAXIMUM MINIMUM HIGH LOW 0..6 5..95 DEGREE/S		
				INCREASE			FLAME FAN LAMP TEMPERATURE - <i>SET</i>		MAXIMUM HIGH 0..6 MAXIMUM HIGH 5..95 DEGREE/S		
				DECREASE			FLAME FAN LAMP TEMPERATURE - <i>SET</i>		MINIMUM LOW 0..6 MINIMUM LOW 5..95 DEGREE/S		
				INCREASE DECREASE			FLAME FAN LAMP TEMPERATURE - <i>SET</i>	by	1 ... 10 1 ... 10 DEGREE/S		

Vocal requests to get the fireplace status:

Alexa,	use	PROFLAME CONNECT	and to	GIVE-ME GET	the	<room-name>	FIREPLACE PILOT-MODE THERMOSTAT-MODE FLAME FAN LAMP AUXILIARY-OUT/OUTPUT SPLITFLOW LED TEMPERATURE-SET ROOM-TEMPERATURE MODE (*) TEMEPERAURE- UNIT		STATUS	of the	<room-name>
Ok Google,	talk to										

NOTE 1: In cursive red colour are parts that can be left out or adopted as alternative.

NOTE 2: Commands like “Switch/Turn OFF the LAMP” where LAMP is normally controlled in a range of levels are intended like “Switch/Turn the LAMP to 0”.

NOTE 3: Commands like “Switch/Turn ON the FAN” where FAN is normally controlled in a range of levels are intended like “Switch/Turn the FAN to the last selected level”.

Short list of the most used commands:

SWITCH-ON is synonymous of TURN -ON
SWITCH-OFF is synonymous of TURN -OFF

SET, SWITCH and TURN are synonymous

GIVE-ME and GET are synonymous

For example from Alexa:

Alexa use PROFLAME CONNECT and SET the <room-name> FIREPLACE to ON

In alternative:

Alexa use PROFLAME CONNECT and SET the FIREPLACE to ON of the <room-name>

For example from Google:

OK Google, talk to PROFLAME CONNECT and SET the <room-name> FIREPLACE to ON

In alternative:

OK Google, talk to PROFLAME CONNECT and SET the FIREPLACE to ON of the <room-name>