Integration Note

Manufacturer:	IFTTT
Model Number(s):	**Maker**
g! Core Module Version:	**g!8.2**
Driver Developer:	**Chowmain Software & Apps**
Document Revision Date:	January 17, 2017

Overview & Supported Features

IFTTT (an abbreviation of "If This Then That") is a free web-based service that allows users to create chains of simple conditional statements, called "applets", which are triggered based on changes to other web services and products.

IFTTT integration into ELAN allows ELAN to control any of the products or services integrated into IFTTT and have those products also control ELAN.

This expands the integration of ELAN to support numerous functions that it natively does not do. We have listed a few examples of what integration can bring to ELAN below and have also stepped through programming some of the ones we feel are useful to a lot of people. Note that this is a small list of things we liked. There are a lot of other things you can do currently (with lots more coming in future to IFTTT) so we suggest you check out the channels on the IFTTT website.

We are keen to hear about what cool things you have done with the driver. Let us know via twitter, email or forum post

Examples

These are some examples of what you can achieve with IFTTT integration to ELAN via the Chowmain IFTTT maker driver.

Outbound Examples (ELAN > IFTTT)
- ELAN can send SMS's via your Android phone (IF app must be downloaded to the phone)
- ELAN can call your phone number and say a message (for security alarms, smoke alarms and other emergencies).
- ELAN can save data about the events in your home in google docs or dropbox.
- ELAN can save data about the events in your home to IFTTT's daily or weekly email digest.
- ELAN can send emails and push notifications.
- ELAN can send Skype messages
- ELAN can send Google Glass notifications (with Message, Image URL and URL fields).
- ELAN can send notifications to your Android wear device (requires IF app installed).
- ELAN can send your BMW (Connected Drive Compatible) a message on your car's front screen display (120 characters limited)
- ELAN can find lost items (needs tags) or phones (call your phone).

- ELAN can send your Tesla (EVE enabled) a message (with subject, message and message type fields) on your car's dashboard
- ELAN can turn on or off your GE Smart Appliance and more.
- ELAN can tell your Android phone to turn on/off Bluetooth or wifi (might be useful when you're leaving or coming back home).
- Tell the world via Facebook what your home is upto (might not be a good idea).
- When batteries are low on your ELAN sensors add a reminder to your IOS reminders app.

Inbound Examples (IFTTT > ELAN)
- Use your Apple Watch or Android Wear device to control ELAN.
- Amazon Alexa (Amazon Echo, Tap, etc) and Google Assistance (Home and Pixel) can send commands to ELAN via voice recognition to do things like turn lights on, play music, house off and more.
- ELAN can pause your music and videos when you answer your phone (android only)
- ELAN can detect if a specific person has entered or left a room/zone using beacons.
- iOS Location and Android Location (via the IF app) can tell ELAN when you are approaching or leaving home.
- Send a warning to ELAN when something has been picked up or moved (needs wireless tag)
- Your BMW (Connected Drive Compatible) can tell ELAN when it is entering or exiting an area.
- Your EVE enabled Tesla car can tell ELAN when it has arrived home, is leaving home or on the way home.
- Your Automatic, Zubie or Dash enabled car can tell ELAN when you have turned the car on or off within a certain area.
- Your GE, LG and Samsung Smart appliances can tell ELAN when it has been turned on, off, if for example an oven timer is done, if there is a leak in the dishwasher, if the filter needs cleaning, if the dryer cycle has finished, if the fridge door has been left open for too long,
- Your Nest Protect smoke alarm can send ELAN smoke emergency, warning and carbon monoxide emergencies
- Your Netatmo Welcome can tell ELAN when a specific person, known person or even an unknown person has been seen or arrives home (facial recognition)
- Your Roost Smart Battery can tell ELAN (via the announcement agent) when its battery is low (Great for smoke alarms).
- Control ELAN via SMS or phone call to IFTTT.
- If the temperature (via weather forecast/conditions) changes in your area tell ELAN to do something.
- Your Android phone can tell ELAN when it has connected or disconnected to/from a specific Wifi network.
- Change the colours of your RGB LED's to your teams colour using the ESPN channel when the game starts.

How does it work

There are two components to this driver. The driver can send commands to IFTTT via the webhooks service event trigger with the following variables

- Event
- Value 1
- Value 2
- Value 3

This is used for control over any of the IFTTT channels (think of ELAN as the 'if' portion of the IFTTT).

The driver can receive commands from IFTTT via a 3rd party service called pushover. You will need to pay a once off small fee (currently $5.00usd) to utilise the service after 7 days. IFTTT will be programmed to send a push notification to the pushover device (ELAN_IFTTT) with title and message as variables to program against. When ELAN receives a new push notification (this will be instant as we communicate via websockets) then it will fire an event. The dealer then programs ELAN to react to this event map.

This is used to control ELAN from any of the IFTTT channels (think of ELAN as the 'that' portion of the IFTTT).

Disclaimer

This driver integrates and utilises the 3rd party cloud services (Pushover and IFTTT).   If these services has any downtime or discontinues Chowmain Ltd cannot be held liable for any damages which may occur due to non service. By using this driver you agree that you will indemnify Chowmain Ltd against any losses, costs, damages, expenses, liabilities, proceedings or demands which may incur as a result of the service inavailability.

Registering for the pushover notification service

Pushover is a notification messaging service that the driver utilises as middleware for messaging from IFTTT back to ELAN. It provides us with a cloud service that the driver is consistently connected to so we can notify of a new command instantaneously.

In order for ELAN to receive feedback you need to sign up for a pushover account. If you have one already you can utilise that account's credentials and ELAN will add itself as a new device.

Pushover comes with a 7 day trial. If you want to continue to utilise the service after the 7 days you need to purchase a one-time licence for $4.99 USD with no monthly fees.

1. Visit http://pushover.net

2. Click on Login or Signup

    Login or Signup

3. Follow the signup procedure to sign up for a new account (take note of the username and password as this is needed for the driver setup).

Signup for a Pushover Account

For an easier registration process, download Pushover for Android and iOS and signup right from the app.

E-Mail Address:

Password:

Password (again):

☐ I'm not a robot

reCAPTCHA
Privacy - Terms

By signing up for an account, you agree to our terms of service.

Signup

Purchasing your pushover service.

Pushover comes with a 7 day trial. If you want to continue to utilise the service after the 7 days you need to purchase a one-time licence for $4.99 USD with no monthly fees. This gives you upto 7,500 messages per month until the first of the next month when the allowances reset. That is about 10 messages per hour. If you think you will exceed this (which is doubtful) then you can purchase additional messages from the pushover website.

1. Visit http://pushover.net

2. Click on Login or Signup

3. When you log in you will see your Devices. Now that you have setup the driver you will notice that there is a ELAN_IFTTT device.

Your Devices (Add Your Mobile Device or Desktop) (View Your Licenses)

Name	Status	Last Synced	Messages Received/Pending
ⓟ ELAN_IFTTT ⊤	Trial Period (Upgrade Now)	less than a minute ago	1 received, 0 pending

4. Click on Upgrade Now to purchase a licence

5. You will need to purchase a Desktop licence. Click on the visit our Desktop page link.

Desktop

Your account is **not licensed** for Desktop.

To purchase, visit our Desktop page and make a credit card or PayPal payment.

6. Click on the 'Purchase Pushover for Desktop' link and follow the prompts to buy a licence.

Licensing

To purchase a license for Pushover for Desktop for **$4.99 USD**, click the button below. An invoice will be created that you can pay by credit card or PayPal.

Purchase Pushover for Desktop

7. Once you have finished paying go back to the main page and you will notice that the status has changed to enabled.

Your Devices (Add Your Mobile Device or Desktop) (View Your Licenses)

	Name	Status	Last Synced	Messages Received/Pending
ⓟ	ELAN_IFTTT	Enabled	less than a minute ago	1 received, 0 pending

Registering for the IFTTT Service

Before setting up the driver we need to register for IFTTT and also obtain a key so that we can send commands to IFTTT from ELAN to trigger programming for IFTTT integrated products and services.

1. Visit http://ifttt.com

2. Click on Sign Up

Sign in   Sign up

3. Complete the signup process either by using Google, Facebook or email address.

4. Follow through the wizard prompts until you finish the wizard

5. Click on Search

Q Search

6. Click on the search bar and type in webhooks

7. Click on the webhooks service
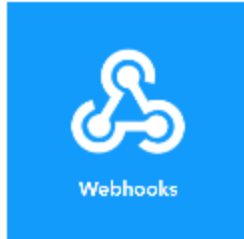
8. Click on the Connect button
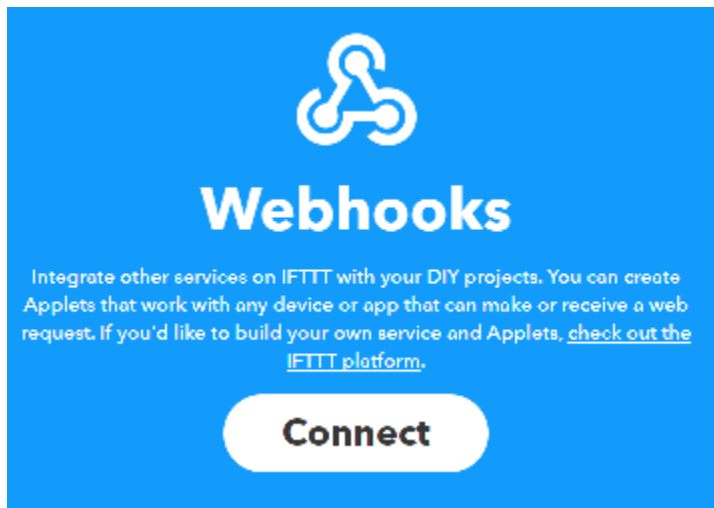
9. Click on the Settings button
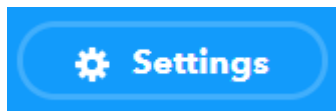
10. Take note of the key. This is the bit after https://maker.ifttt.com/use/

Account Info

Connected as: **username**

URL: https://maker.ifttt.com/use/abcdefghijklmnopqrstuvwxyz

Status: active

Edit connection

11. Alternatively you can visit the URL and it will advise you of the key

Your key is: **abcdefghijklmnopqrstuvwxyz**

◀ Back to service

To trigger an Event

Make a POST or GET web request to:

https://maker.ifttt.com/trigger/ {event} /with/key/abcdefghijklmnopqrstuvwxyz

12. Proceed to the g! Configuration section

g! Configuration

This driver will provide control and feedback for any IFTTT service. The driver requires a valid licence for use. Licences can be purchased from Chowmain's distributor driverCentral. Customers can also trial the driver out for 7 days prior to licence purchase. Dealers who have showrooms can demonstrate the driver for free via the Chowmain Dealer Showroom Licence. You can apply for this licence via the Chowmain website. Please follow the steps below. If you encounter any issues please submit a ticket via the driverCentral website.

Installation Process

Once you have obtained the webhook key from your IFTTT account and have registered for a Pushover account please follow the steps below.

1. Download the latest version of the driver from our distributor driverCentral.

2. Extract the file to your preferred ELAN driver storage location.

3. In configurator click on the input/output tab
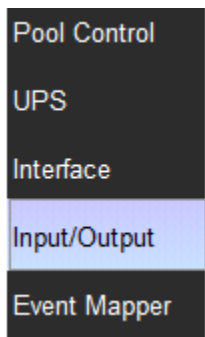
4. Click on the arrow next to Generic Serial Devices

5. Click on Add Generic Serial Device
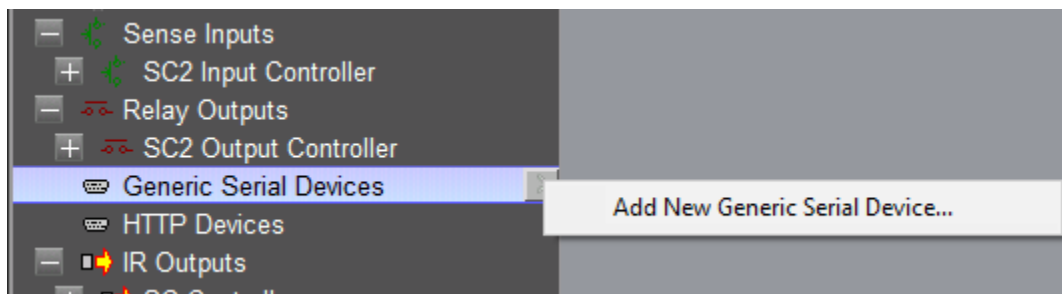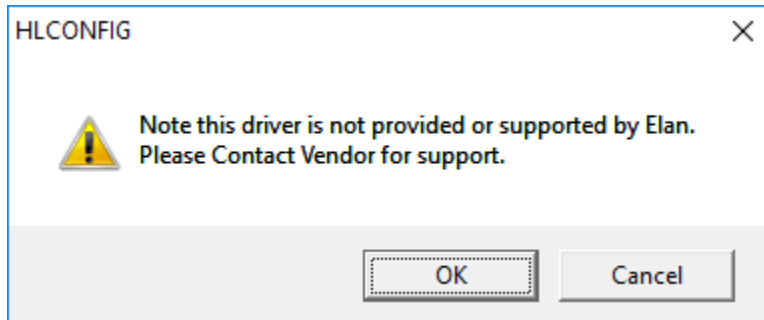

6. Click on the Search Folder button

7. Select your driver folder and press ok
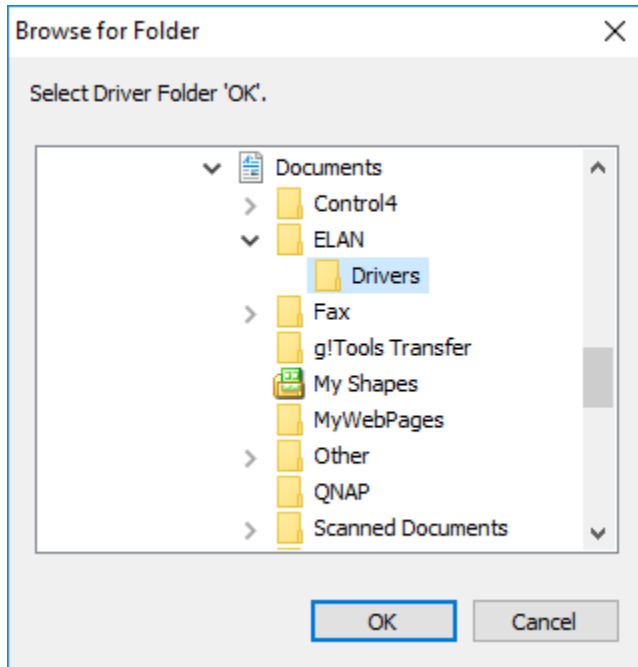
8. Select your IFTTTT Maker driver and press ok
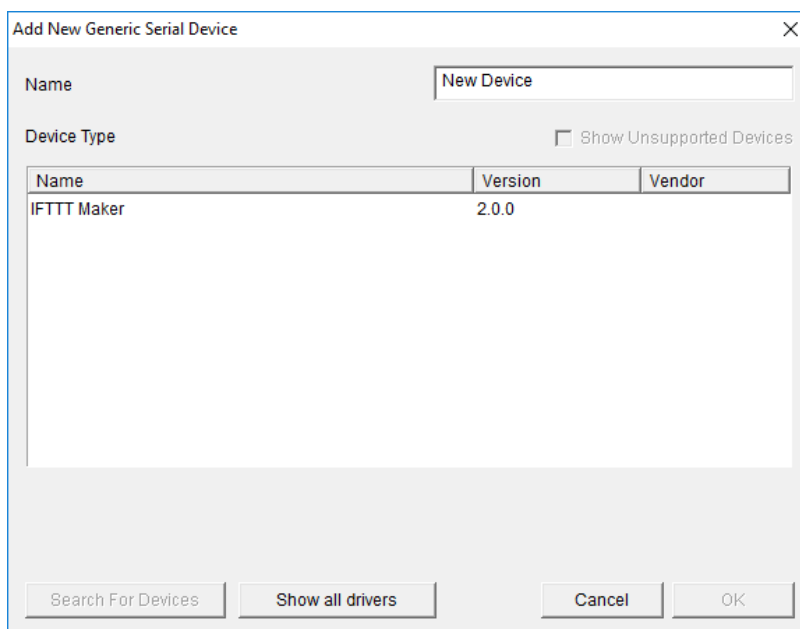
9. Configurator will warn you that the driver is not provided or supported by Elan. Click on OK.

10. The driver will advise you that you have 168 hours to test the driver out. If you have purchased an activation key please type it in here then click on Apply

11. Note that if you have typed in a valid activation key your status will change to ACTIVATED (you need to click off of the driver onto something else and back again to see the changes to the status).
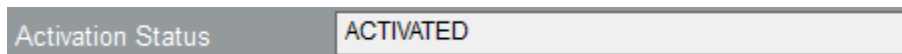
12. Type in your IFTTT Key in the text field.
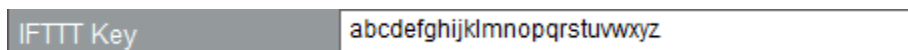
13. Type in your Pushover username and password here

14. Press Apply.

15. Press Init
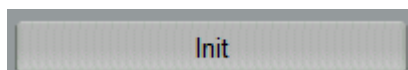
16. If it is successful then the pushover secret field will change to OBTAINED and the websocket status will change to CONNECTED.

Pushover Secret	OBTAINED
Pushover Websocket Statu	CONNECTED

17. Congratulations you have successfully setup the IFTTT Maker driver for ELAN. We now need to program in some outbound and inbound commands.

Programming Outbound Commands (ELAN > IFTTT)

ELAN can send commands to IFTTT to trigger devices or services. You will need to complete two parts of programming to achieve this. One part is in Configurator and the other part is in IFTTT.

Example 1 – Sending emails through IFTTT

Configurator Steps

1. Click on the '**Event Mapper**' tab

2. Create an Event Map for the Event and Conditions you want.

3. For the command click on the **Add** Button.

4. Select the **Generic Device** System Family

5. Select IFTTT Maker for the Command Group
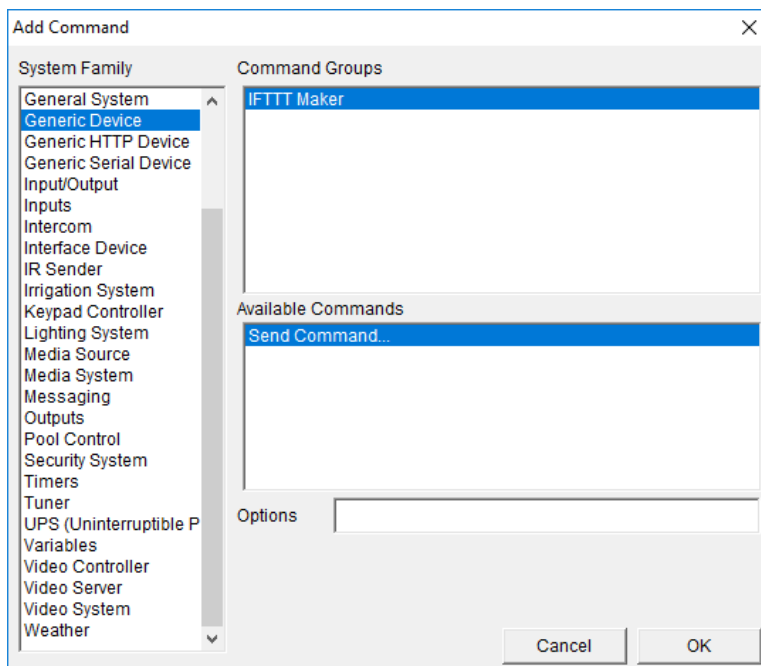
6. Open up the ELAN IFTTT Command Generator html file.

7. For the Event type in the EMAIL

8. For Value 1 type in the email address

9. For Value 2 type in the subject

10. For Value 3 type in the body of the email

11. Press the Convert Button.

12. Copy the converted text and paste it into the Options box in Configurator

13. Press the OK button

14. Click on Apply

IFTTT Steps

1. Log into the IFTTT website

2. Click on the arrow next to your username.

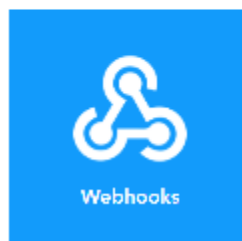3. Click on New Applet

4. Click on this

5. Search for webhooks

6. Click on the webhook service

7. Click on the trigger labeled '**Receive a web request**'

Choose trigger

Step 2 of 6

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)
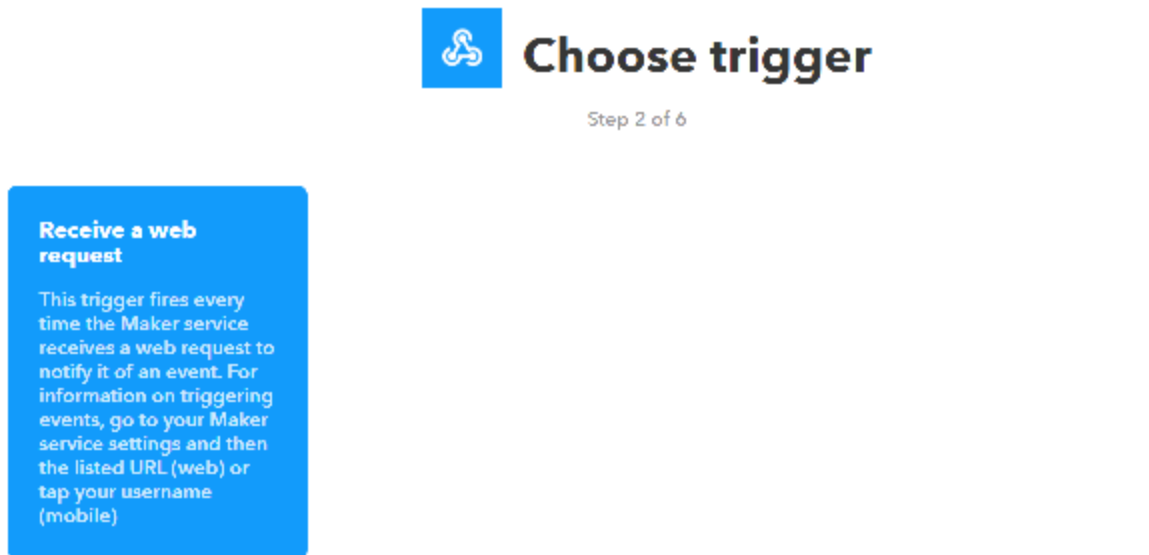
8. Type in **EMAIL** under Event Name

Complete trigger fields

Step 2 of 6

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

Event Name

EMAIL

The name of the event, like "button_pressed" or "front_door_opened"

Create trigger

9. Click on that

if 🔗 then ✚that

10. Search for gmail

Choose action service

Step 3 of 6
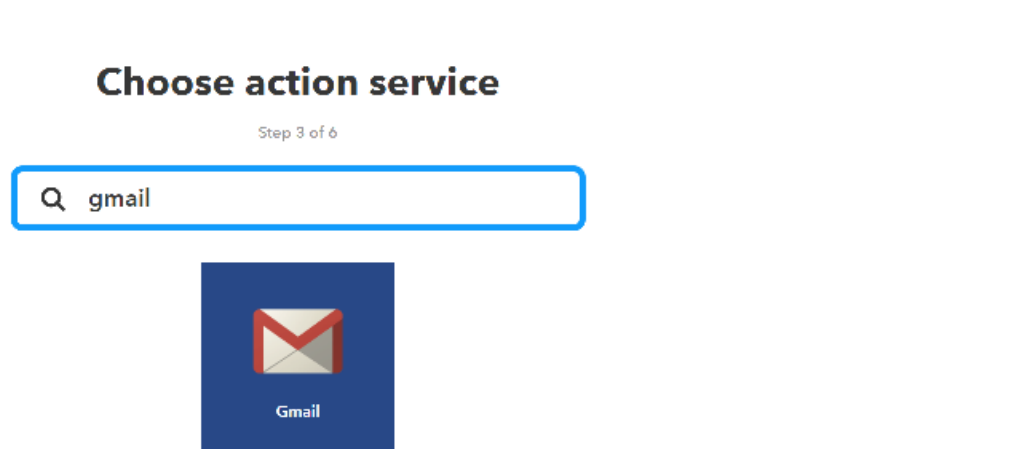
🔍 gmail

Gmail

11. Click on the Gmail service
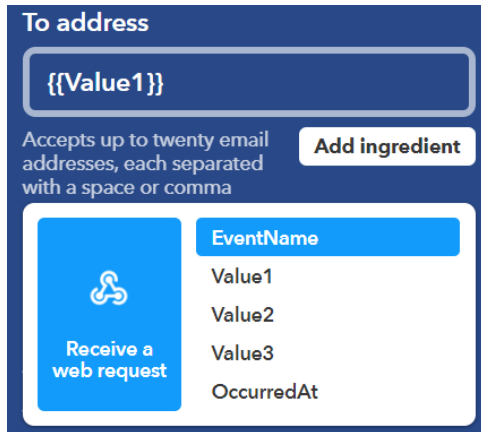
12. If you haven't already connect the Gmail upto IFTTT.

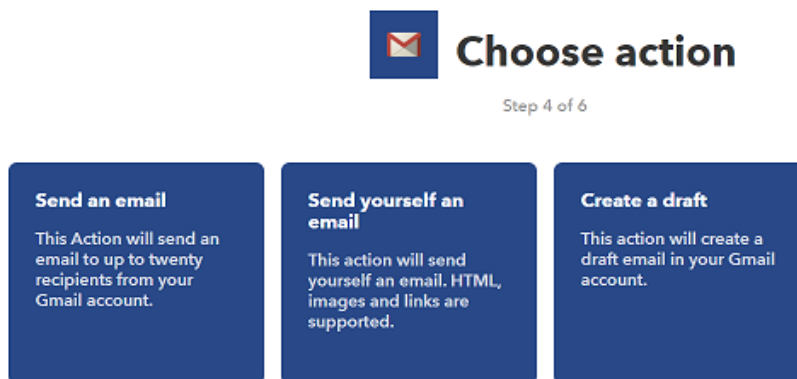13. Select the action 'Send an email'

Choose action

Step 4 of 6

Send an email

This Action will send an email to up to twenty recipients from your Gmail account.

Send yourself an email

This action will send yourself an email. HTML, images and links are supported.

Create a draft

This action will create a draft email in your Gmail account.

14. Click on Add ingredient for the To Address

15. Select Value1

To address

{{Value1}}

Accepts up to twenty email addresses, each separated with a space or comma

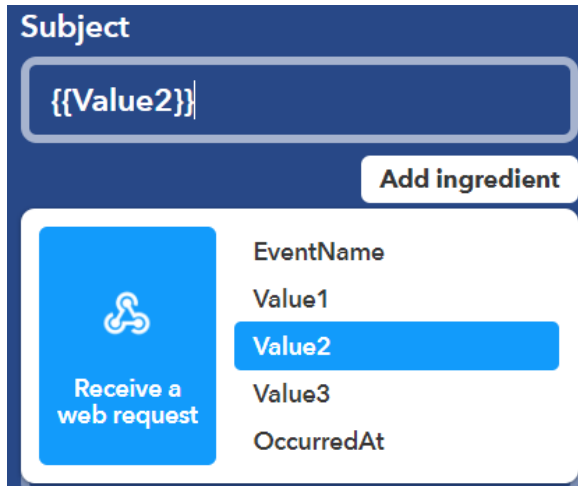Add ingredient

Receive a web request

EventName
Value1
Value2
Value3
OccurredAt

16. Clear the subject field

17. Click on Add ingredient for the Subject

18. Select Value2

Subject

{{Value2}}

Add ingredient

Receive a web request

EventName
Value1
Value2
Value3
OccurredAt

19. Clear the body field

20. Click on Add ingredient for the Body

21. Select Value3

Body

{{Value3}}

Some HTML ok   **Add ingredient**

Receive a
web request

EventName
Value1
Value2
Value3
OccurredAt

22. Click on Create Action

23. Review your Applet and click on Finish.

24. Congratulations you have successfully setup email sending from ELAN via IFTTT. Test by executing your event.

Programming Inbound Commands (IFTTT > ELAN)

IFTTT can send commands to ELAN to trigger programming on ELAN to turn devices on/off, playback music, open doors or anything you can dream of. You will need to complete two parts of programming to achieve this. One part is in IFTTT and the other part is in ELAN.

Example 1 – Using Google Home to turn your house off

IFTTT Steps

1. Log into the IFTTT website
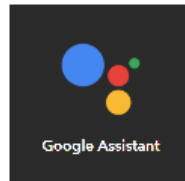2. Click on the arrow next to your username.
3. Click on New Applet
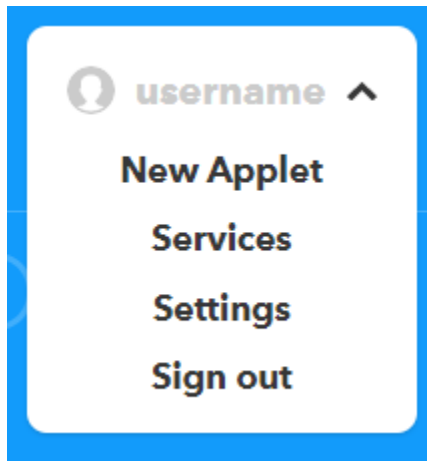
4. Click on this

5. Search for assistant

Choose a service

Step 1 of 6

🔍 assistant

Google Assistant

6. Click on Google Assistant

7. If you haven't already connect the Google Assistant upto IFTTT.

8. Choose the Say a simple phrase trigger

Choose trigger

Step 2 of 6

Say a simple phrase

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase you choose. For example, say "Ok Google, I'm running late" to text a family member that you're on your way home.

Say a phrase with a number

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase like "Set Nest thermostat to 68." **Use the # symbol to specify where you'll say the number ingredient

Say a phrase with a text ingredient

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase like "Post a tweet saying 'New high score.'" **Use the $ symbol to specify where you'll say the text ingredient

Say a phrase with both a number and a text ingredient

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase like "Block time for 'exercise' at 6 PM." **Use the # symbol to specify where you'll say the number ingredient and $ where you'll say the text ingredient

9. Type in the wording of the phrase and any alternative ways to say it. Eg house off, all off, turn the house off.

10. Type in the response from Google Assistant. Eg Ok. Turning everything in the house off.

Say a simple phrase

This trigger fires when you say "Ok Google" to the Google Assistant followed by a phrase you choose. For example, say "Ok Google, I'm running late" to text a family member that you're on your way home.

What do you want to say?

house off

What's another way to say it? (optional)

turn the house off

And another way? (optional)

all off

What do you want the Assistant to say in response?

Ok. Turning everything in the house off

Language

English

Create trigger

11. Click on Create trigger

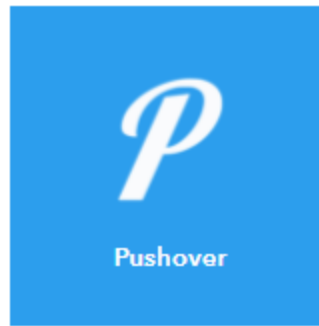12. Click on that

if **then** **that**

13. Search for the service **pushover**

Choose action service

Step 3 of 6

Q   pushover

Pushover

14. Click on pushover

15. Click on the action 'Send a Pushover notification'

 Choose action

Step 4 of 6

Send a Pushover notification	**Update a Pushover widget**
This Action will generate a Pushover notification to your subscribed devices	This action will update your Pushover widget/watch with new glance data.

16. For the Title type in A
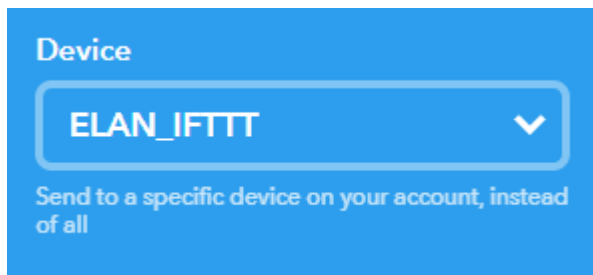
17. For the Message type in 1

Title

A

Add ingredient

Message

1

Add ingredient

18. For the Device select ELAN_IFTTT (If it is not there then you have not typed in your username and password correctly in configuator).

Device

ELAN_IFTTT ∨

Send to a specific device on your account, instead of all

19. Click on Create action

20. Review your applet and click on Finish

Configurator Steps

1. Click on the '**Event Mapper**' tab

2. Create an Event Map.

3. Click on Add under Event.

4. Select the **Generic Device** System Family

5. Select IFTTT Maker for the Event Group

6. Select A under Available Event

7. Select Option 1
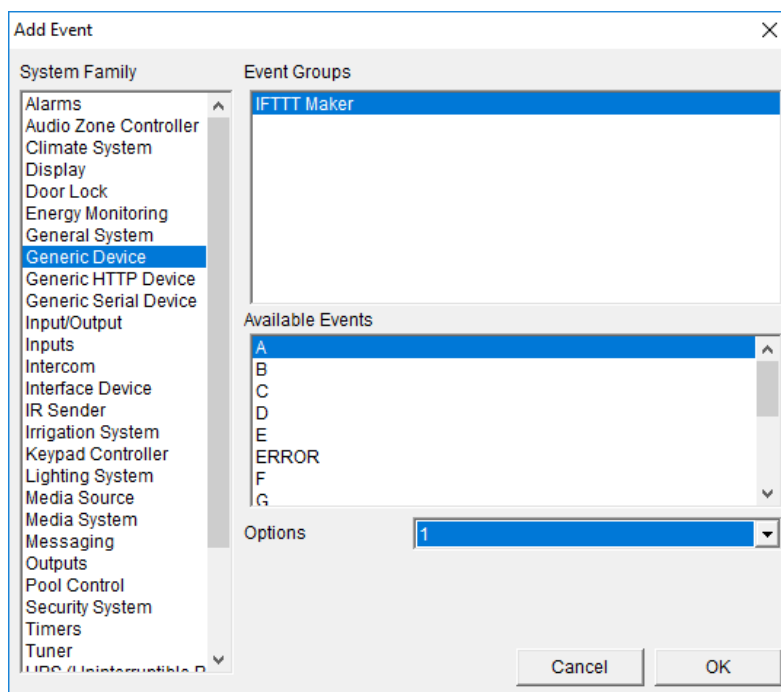
8. Press Ok

9. Add in commands to turn the home off.

10. Click on Apply.

11. Congratulations you have created an All Off event map using Google Home. Test it out.

g! CONFIGURATION DETAILS

The following table provides settings used in Configurator when connecting to IFTTT service. Please refer to the Configurator Reference Guide for more details.

Variable Name	Setting	Comments
Activation Key	<User Defined> This is the driverCentral activation Key	See Note 1
Activation Status	<Auto Detect> This provides the licence status feedback	See Note 1
IFTTT Key	<User Defined> This is required for outbound communications (ELAN > IFTTT)	
Pushover Secret	<Auto Detect> Will automatically change to OBTAINED when logged in	
Pushover Websocket Status	<Auto Detect> Should always be CONNECTED once the username and password has been set	
Last Pushover Title/Message	Will be one letter and one-two numbers	
Debug Mode	<User Defined> This sets the logging for the driver.	See Note 2
User Name	<User Defined> This is the pushover username. Required for inbound communications (IFTTT > ELAN)	
Password	<User Defined> This is the pushover password. Required for inbound communications (IFTTT > ELAN)	

Notes:

1. The driver requires a valid licence for use. Licences can be purchased from the driverCentral website. All of the licences are site licences. This means that you can use as many instances of the driver as you want in a single system with the one licence. The driver also comes with a 7 day trial. The driver will provide feedback as to the state of the licence in the Activation Status field.

2. Debug Mode – This is used for troubleshooting. By default it is set to off. print is used by technical support for live troubleshooting. log is used to output to the driver log. Print and log is used to provide technical support with live troubleshooting and log to driver log at the same time.

COMMON MISTAKES

1. The driver requires pushover for inbound communications. Please make sure that you have a valid licence and that the username and password is typed in correctly.

ELAN DEVELOPER PARTNER INFORMATION

This ELAN driver was written and supported by:

http://www.chowmainsoft.com