Thinknx IFTTT Guide

- What is IFTTT and why should you use it?
- IFTTT Structure
- Start with IFTTT
- Thinknx and IFTTT
 - $\circ\,$ Sending an action from Thinknx to IFTTT
 - Inside Thinknx Configurator
 - Inside IFTTT account
 - 2. Sending an action from IFTTT to Thinknx
 - 3. Example 1: Thinknx to IFTTT
 - 4. Example 2: IFTTT to Thinknx

What is IFTTT and why should you use it?

IFTTT is an initialism for **If This Then That**. It is a free web-based service to create chains of simple conditional statements, called **applets**. An applet is triggered by changes that occur within other web services such as Gmail, Facebook, Instagram, or Pinterest. In addition to the web-based application, the service runs on iOS and Android.

- For instance, if someone comments on your WordPress blog you can thank them automatically with an email.
- $\circ~$ If every time you post an image on Instagram it can be automatically uploaded as a Tumblr post.
- $\circ\,$ If every time you are tagged in a photo on Facebook, it will automatically save the photo to your iOS Photos.
- Used in home automation, it will switch ON a light when detecting motion in a room (with associated compliant devices).



Figure 1: IFTTT Slogan

IFTTT Structure





IFTTT employs the following concepts:

 Services are the basic building blocks of IFTTT. They mainly describe a series of data from a certain web service such as YouTube or eBay. Services can also describe actions controlled with certain APIs, like SMS. Sometimes, they can represent information in terms of weather or stocks. Each service has a particular set of triggers and actions.



Figure 3: IFTTT Services

• **Triggers** are the "This" part of an applet. They are the items that launch the action. For example, from an RSS feed, you can receive a notification based on a keyword or phrase.



Today's worther report This Togger retrieves today's lanced worther sendly secret. Index secret worksis only in the UEA	Tomorsow's weather report This Trigger retrieves tomorio per's anather report at the time year specify.	Contrast transpositions draga below The Trigger mention pool boot transporting to boot transporting to a set to be the set of the set the relative provides.	Comment teamponentures rises aboves This Tolgger resordures per boot temperatures that when you perceides	Current candition changes to This Trigger mentions despite in the convert entropy of the convert in each the trigger from Currently and the problem in a the trigger from currently and the problem in a set that trigger from currently and the problem in a set that the problem is a set that the problem currently and the problem currently from currently from currently from currently from	Concorcow's low drugs below The Trigger free avery title toescrews the toescrews the present days to be to separate days to be a when you previde.
Tomorow's kiph rises above This Topper fran every time tomorow's forcestred (10) tomperature dan above a robo yee provide.	Tamorrow's horecast calls for This logger neurinon desepte to insurement fear-out of searcher available.	Sanniae Nois Nogar-Gas-within 18 atomine at the sanciae is your location.	Summet This folgoer flow solidio II minutes of the summet is your location.	Wind speed rises above Tab logger from reary time the above a value pro- dese above a value pro- questly in your insation.	Connect polition count rises above This Topper manifest and fast overy time the politic accurate fast always the value you spool?(1- 10) a0218 available only in the USA.
Current humidity level rises above This Digger models per tead humidity and fees every time the humidity rises above the value yes specify.	Current UV Index rises above This Trigger mankes your load UV herefu and free away time the UV index researcher the value processed (b) 1-161.				



• Actions are the "That" part of an applet. They are the output that results from the input of the trigger.





Ingredients are the basic data available from a trigger. For example an "email" trigger can give the following ingredients: subject, body, attachment, received date, and sender's address. The Applet can take the individual ingredients provided by the trigger and use them to fill in action fields.



Step 5 of 6

Send me This Action will email. Images a Subject {Tomorrow	Send me an email This Action will send you an HTML based email. Images and links are supported. Subject				
tomorrow!	Add ingredient				
Tomorrow's weather report	ForecastUrl TomorrowsCondition ConditionImageURL HighTempFahrenheit HighTempCelsius LowTempFahrenheit LowTempCelsius TomorrowsDate				
via Foreca Tomorrow	via ForecastUrl				
Ci	Add ingredient				

Figure 6: IFTTT Ingredients

• **Applets** (formerly known as **Recipes**) are the predicates made from Triggers and Actions. They allow users to automate interactions between different services they use. For example, if you say "lights on" to Alexa (trigger), it turns on the lights (action).

Review and finish

Step 6 of 6



Figure 7: IFTTT Applet

Start with IFTTT

Go to https://ifttt.com/ to create an account with IFTTT. You can sign up using your Google or Facebook account, or by entering your email address and password. Once signed in, click on "My Applets" to start creating your first applet.

IFTTT 🗄 My Applets 🖩 Activity Q Search	0
Applets	Services
You don't ha Applets work with a Got s	ve any Applets New Applet Il your favorite services
About Blog Help Jo Build your own t	bs Terms Privacy Trust envice and Applets TT Parton

Figure 8: IFTTT Account

Thinknx and IFTTT

Thinknx uses the IFTTT service named "Webhooks". Through this service it is possible to:

- Create an action on IFTTT when a Thinknx object changes its status (see section 3).
- Send a command to Thinknx when a condition is met over another service (see section 4).

1. Enable IFTTT on Thinknx Server

Go to the web page of your Thinknx server, under "Server" tab, select "Thinknx Cloud". Click on "Enable Integration Kit". For more information about the Integration Kit and how to use it with third party systems, check out the Integration Kit wiki page.



Figure 1.1: Enable Integration Kit

2. Configure Webhooks

Inside your IFTTT account, click on your username and select Services from the list.

FTTT 🖻 My Applets 🖩 Activity Q. Search		O personalusername A New Applet
Applets	Services	Settings Sign out
Q Filter services		

Figure 2.1: IFTTT Username

Make sure to click on "All Services" button under the preferred services, input the word "Webhooks" in the search bar and click on the result.

	Applets			Services	
					New Applet
Email	Email Digest	FIIT	RSS Feed	Space	Weather Underground
	_		rvices		

Figure 2.2: IFTTT Account Services



Figure 2.3: IFTTT Webhooks

Inside the "Webhooks" service, click on "Connect", then go to "Settings". Take note of the URL associated to your account, especially the KEY section (https://maker.ifttt.com/use/**[KEY]**)

> This step will create a dedicated key to establish communication with Thinknx Cloud. The key will permit to create actions on Thinknx server, therefore it is important to keep it secured to prevent security attacks.

My Applets > Webhooks	Webbooks settings
	Webliooks settings
	Account Info
	URL: https://maker.ifttt.com/use.ISIt0pgyaEongud0PyxQm5VfwOdbm6fXZu0_d6o8RQ5 Status: active
	Edit connection
	Disconnect Webhooks

Figure 2.4: IFTTT Webhooks URL

3. Sending an action from Thinknx to IFTTT

Inside Thinknx Configurator

If you want to execute an IFTTT action when a Thinknx object changes its status, start by going to "Sytem" tab inside Configurator, and add the object "IFTTT".



Figure 3.1: Add IFTTT Account in Thinknx

Click on IFTTT Account, and copy paste the Key from your Webhooks URL (see section 1. Configure Webhooks above).



Figure 3.2: Add Webhooks Key to Thinknx

Next, add a "Generic Button" inside your page, and configure the command to be sent as IFTTT. Insert an "Event Identification" to be used later on when creating the Applet.

New Open Save Close Revenue Add Des	Main Functions	Copy Pass Search Weather	Doby Gost	? Help	Interface Bysien III-O Apole,11	
Generic Button	Conversed IFTIT Account-Int Converses States Interview Converse Interview Converse Interv	igger an event with	parameters wit destilication text to pass as injustient travers traver trave travers travers travers t		Prodern - Satisfield Product - Satisf	2 01
6	_				Command to send to the system devices	
🛛 Tandard 4.3 + 🗋 Tandard 4.3 + 🖄 Landacape + 🏪 De	di Thène •			2000 (D 100% (D (D (B		
Tablet perver not nurving Press Tablet button to enable per	inver and load project to table!				Thinking devices found on the net	teon: 🇱 Englan

Figure 3.3: Add IFTTT command in Thinknx

Inside IFTTT account

Sign in to your IFTTT account on https://ifttt.com, go to "My Applets" and click on the "New Applet" button.

FTTT 🕑 My Applets 🛢 Activity Q Search	0
Applets	Services
You don't have Applets work with all Get st	e any Applets your favorite services arted
About Blog Help Job Build your own se	s Terms Privacy Trust rvice and Applets /T Platform

Figure 3.4: Create New Applet

Click on "+This" and search for "Webhooks" to place it as a trigger.

	New Applet
	if this then that
	About Blog Help Jobs Terms Privacy Trust Build your own service and Applets
	Figure 3.5: Click on IFTTT "+This"
< Back	
	Choose a service
	Step 1 of 6
	Q webhooks
	Webhooks

Figure 3.6: Add Webhooks as "This"

Select "receive a web request" and enter the "Event Name" given inside the Configurator.



Figure 3.8: Add Thinknx Event Name

Next, you can click on "+That" to configure any action required choosing the preferred service.

4. Sending an action from IFTTT to Thinknx

The same concept as section 2 applies, but instead of choosing Webhooks as "+This", it will be selected as "+That".

Start by adding a trigger that will be used to command a Thinknx object, for example when an event starts or finishes on your Google calendar, and include it as "+This". Then, click on "+That" and select "Webhooks". Click on "Make a web request".



Figure 4.1: Add Webhooks as +That

Then click on "Server" tab again, and select "Integration Kit".



Figure 4.2: Select Integration Kit

You will see the entire tree of your uploaded project. Go to the desired object to be controlled from IFTTT and select it. Choose the command to be sent(for example ON), and click on copy Cloud URL to be able to send the command remotely.

Each device into the Thinknx project can be controlled using dedicated URLs that varies depending on the type of the device and its capabilities.	1	Language Permits to change pages language	
Project description	MAI	NTENANCE	-
Project Dashboard Dashboard Dashboard Command Switch Weather	© 83 0	Soft restart Perform a server software restart Full restart Perform a full reboot of the server Shuttdown Perform a clean shutdown of the server	
- Function 1 - Function 2	SER	VER INFO	-
- Function 3			
- Function 4	Ucensed t	D: Owner	
- Function 5	Server ID:	:ber: 001522-2415-06 :d69fa5a4-47ea-41fc-9ebe-b7778145:	162e
- Function 6	Software v Max allow	version: 1.1.10.8 ed client: 1998	
- Function 7			
- Function 8			_
- Function 9			
⊕- System			
Object: Switch Command: Set power state			
http://192.168.8.120:5051/api/V1/power?guid=Lri00I7UCUCXTTgkA-			
Uri local i6xg8.cmd=1			
Actions Test Copy URL Copy URL Cloud			

Figure 4.3: Copy IFTTT URL

Go back to your Applet on IFTTT website and paste the URL. Leave the Method as "GET" and select under "Content Type" the option "application/x-www-form-urlencoded". Finish by clicking "Create Action".



Step 5 of 6

Make a web request to a publicly accessible URL. NOTE: Requests may be rate limited. URL

paid-Lri0017UCUCXTTgkA

6eg&cmd-(param1

Surround any text with " <<>>" to escape the content

Add ingredient

V

Method



The method of the request e.g. GET, POST, DELETE

Content Type



Figure 4.4: Creating an action for Thinknx

Applet (Recipe): "When ambient temperature in the cellar rises above 10°C (measured by KNX sensor), make a VoIP call through IFTTT."

19/28

Inside Thinknx Configurator, under "System" tab, add "Universal Gateway" and click to open the "Actions from KNX".



Figure 1: Add Universal Gateway

Click "Add" to insert a new element and label it as desired.

Enter the KNX group address and Data Type of the Cellar's ambient temperature. Enable Condition 1 and click on command. A new popup will open to create the IFTTT event under "Reports and Gateways". Once the event is labeled, close the popup. Choose as condition "Send if greater" and enter the value 10 in the condition parameters to indicate that "if the temperature is higher than 10 degrees then the event will be launched".

New Core Since Oran Research Add	
The open and one relate the	and a second
Wees Editor Elements - Mode Living Room - Mode Living Room - Mode Living Room - Mode TVRoom - Mode TVRoom - S-Celler eleves 10 degrees	Important Properties Important
2	Troper an event with parameters Troper an event
Add Remove Up Down	a terrational development of the second deve
OFF	Actions true kiloc (Collection)
	Actions from KNX
Standard 4.3 + 🖾 Standard 4.3 + 🖒 Landscape + 🌚	Celer selection OK Cancel 3 Lat of KOK dejects that will cause actions through the pairway OK Cancel 3
Tablet server not running Press Tablet button to enable	ee horse a Thesas devices bund on the network 🛞 English

Figure 2: Create IFTTT event in Thinknx

Go back to the IFTTT website to create a new applet. Click on "+This" and search for "Webhooks".



Figure 3: Add Webhooks as Trigger

Select "Receive a web request".

K Back

Choose trigger

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)

Figure 4: Select "Receive a web request"

Enter the event name created in Thinknx.



Figure 5: Select "Insert event name"

Click on "+That" and search for "VoIP".

K Back

Choose action service Step 3 of 6 Q void Void Void Void Void Void Void Void



Select "Call my device".



Figure 7: Select "Call my device"

Enter the voice message you want to hear when the event takes place.

< Back



Figure 8: Select "Insert event name"

ifttt

Example 2: IFTTT to Thinknx

Applet: "When client says Good Morning to Google Assistant, launch Thinknx scene." Start a new Applet on IFTTT website. Click on "+This" and search for "Google Assistant"



Figure 1: Create Google trigger

Select "Say a simple phrase", and enter the phrase "Good morning" and any other alternatives you want. You can even write down the assistant's reply



Figure 2: Select your trigger



Figure 3: Enter the sentence

Next, click on "+That" and select "Webhooks". Click on "Make a web request".



Figure 4: Add Webhooks as Action

To get the URL, go to the Thinknx server's web page, select "Server" tab and click on "Integration Kit".

ifttt



Figure 5: Go to "Integration Kit"

Search for the Good Morning Scene in the Project tree, select "Launch" as parameter and click on "Copy URL Cloud".

Project description	MAINTENANCE	-
Project Dashboard Main Functions Switch Source Weather Function 1 Function 2 Function 3 Function 4 Function 5 Function 6 Function 7 Function 9 System	Soft restart Perform a server software restart Perform a server software restart Perform a full reboot of the server Perform a full reboot of the server Perform a full reboot of the server Perform a clean shutdown of the server SERVER INFO Licensed to: Conser Server (D. 6091523-2413-46 Software version: 1.1.18-7 Max allowed clear: 1960	520
Object: Scene		
Command: Launch/stop the scene		
Viri local http://192.168.8.120:5051/api/V1/scenelaunch? guid=L_SI1KRujkuq27QWse2hKw8cmd=1		
Actions Test Copy URL Copy URL Cloud		
How to use:		

Figure 6: Select Scene in Thinknx

Go back to your IFTTT web page and paste the URL. Click on "Create Action" and the applet will be created.



From:

http://www.thinknx.com/wiki/ - Learning Thinknx

Permanent link: http://www.thinknx.com/wiki/doku.php?id=ifttt

Last update: 2019/10/07 11:38

