## **Home Assistant Installation**

1. Install Raspberry Pi imager https://www.raspberrypi.com/software/.



Fig. 1: Pick the operating system you are using

- 2. Insert the Micro SD card to the SD card reader.
- 3. Run the application.
- 4. Choose Device (Raspberry Pi 4 in this case).
- 5. Choose Operating System ("Other specific-purpose OS"  $\rightarrow$  "Home assistants and home automation"  $\rightarrow$  "Home Assistant"  $\rightarrow$  "Home Assistant OS 12.x").
- 6. Choose Storage.

Raspberry Pi Imager v1.8.5 – –							
Raspberry Pi Device	Operating System HOME ASSISTANT OS 12.3 (RPI 4/400)	Storage SDHC CARD					
		NEXT					

Fig. 2: Home Assistant Installation, In this case, Raspberry Pi 4

- 7. Click "Next"  $\rightarrow$  "Yes". (Ignore Microsoft Error messages).
- 8. Remove the Micro SD card.
- 9. Insert the Micro SD card into the Raspberry Pi's Micro SD card slot.
- 10. Connect Raspberry Pi to power via the USB-C (or Micro-USB depending on the model) port.
- 11. Connect the Raspberry Pi to your network via the ethernet port on the Pi, make sure your computer is connected to the same network as well.
- 12. Home Assistant Installation happens automatically if the Micro SD card is inserted and the Raspberry Pi is powered on. This might take a few minutes. If you want to monitor the installation, connect the Raspberry Pi through its mini-HDMI port to a display.
- 13. Open a web explorer, navigate to http://homeassistant.local:8123/ and hit enter.
- 14. Wait for the setup to finish and click on "Create My Smart Home".
- 15. Create a user using your preferred credentials.

## **HACS** Installation

Home Assistant Community Store (HACS) is a third-party download manager for Home Assistant which contains various custom integrations. We need to install LocalTuya integration through HACS to locally control the pet feeder.

1. Go to your user profile and enable "Advanced mode".



Fig. 3: User profile is found on the bottom right.

- 2. Go "Settings"  $\rightarrow$  "Add-ons"  $\rightarrow$  "Add-on store"  $\rightarrow$  search "SSH"  $\rightarrow$  Install "Terminal & SSH".
- 3. After the installation is complete, enable "Show in sidebar"

=<	Home Assistant	$\leftarrow$	Info	Documentation	Configuration	Log	
55	Overview	Terminal & SSH					•
Ę	Мар	Current version: 9.14.0 (Changelog)					
4	Energy	7 Rating 🕼 Manager 👸 Ingress	s 🖙 Signed	)			
:=	Logbook	Allow logging in remotely to Home Assis Visit the Terminal & SSH page for more	stant using SSH. details				
	History						
	Media	OpenSSH					
	media	Start on boot					
>_	Terminal	Make the add-on start during a system boot Watchdoo					
ţ.	To-do lists	This will start the add-on if it crashes					
		Auto update Auto update the add-on when there is a new ver	sion available				
		Show in sidebar					
		Add this add-on to your sidebar					
		START					UNINSTALL
		Home Assistant Ad	d-on: SS	SH server			
		Allow logging in remotely to Home Ass	istant using SSH	I or just the web termin	al with Ingress.		
~	Developer tools	aarch64 yes arm64 yes armhf yes	armv7 yes i38	36 yes			
۰	Settings	About					
		Setting up an SSH server allows acces Assistant API,	s to your Home A	Assistant folders with a	ny SSH client. It also inclu	des a command-line tool to acce	ss the Home
,	Notifications (1)						
t							

Fig. 4: SSH Add-on options after installation

- 4. Navigate to "Terminal" on the sidebar, if it appears not to be running or if you are receiving error codes, refresh the instance.
- 5. Copy and paste (CTRL+SHIFT+V to paste) the following command to the terminal and hit Enter. This will initiate the installation of HACS.

wget -0 - https://get.hacs.xyz | bash -



Fig. 5: HA SSH

- 6. After the installation is completed, restart the home assistant ("Settings"  $\rightarrow$  three dots on the top right  $\rightarrow$  "Restart Home Assistant"  $\rightarrow$  "Restart Home Assistant").
- 7. Home Assistant should automatically restart, if the browser crashes, refresh the browser page to access Home Assistant again.
- 8. Navigate to "Settings" → "Devices & Services" → Click "Add Integration" on the bottom right corner.
- 9. Type "HACS" on the search bar, click on the result.



10. Check all but the last checkbox and submit.

HAC	S	•	×
Before	you can setup HACS you need to acknowledge the following		
<b>~</b>	I know how to access Home Assistant logs		
<u>~</u>	I know that there are no add-ons in HACS		
<b>~</b>	I know that everything inside HACS including HACS itself is custom and unter Home Assistant	sted b	у
<b>~</b>	I know that if I get issues with Home Assistant I should disable all my custom_components		
	Enable experimental features, this is what eventually will become HACS 2.0.0 enable it now you do not need to do anything when 2.0.0 is released	), if yo	u
		su	вм

- 11. Create a github account if you don't have one.
- 12. HACS will ask you to activate device through your github account. Follow the instructions provided and link HACS with your github account.

Waiting for	device activation	0	×
	S		
1. 2.	Open <u>https://github.com/login/d</u> Paste the following key to authorize	<u>evice</u> e HACS:	
	84D8- C4C		

## Fig. 8: Copy highlighted code and click on the github link

Device Activation
Signed in as
Enter the code displayed on your device
8 4 D 8 - C 4 C
Continue
GitHub staff will never ask you to enter your code on this page.

Fig. 9: Paste the code here.

- 13. Click on "Authorize" and exit github.
- 14. If everything is set correctly you should have installed HACS on your Home Assistant. Do not pick an area on the pop-up and click on "finish".
- 15. Now HACS should show up on the sidebar of Home Assistant UI.

### LocalTuya integration Installation

LocalTuya integration is what we need to control the pet feeder locally.

1. On the HACS tab, click on "Integrations".

≡<	Home Assistant	Home Assistant Community Store	
55	Overview		
Ę	Мар	This is where you find custom integrations (custom_components)	
4	Energy	Frontend This is where you find themes, custom cards and other elements for lovelace	
Ē	Logbook	Add-ons	
11.	History	There are no addons in HACS, but you can click here to get to the supervisor	
	HACS	About Show information about HACS	
	Media		
>_	Terminal		
1	To-do lists		

Fig. 10

2. Click on "Explore & Download Repositories" on the bottom right, on the pop-up search, type "LocalTuya". Click on the result.



#### Fig. 11

3. Click on "Download" on the bottom right. Click on "Download" again on the pop-up.

=<	Home Assistant	← Local Tuya			:
	Overview	🛓 @rospogrigio 🔔 @postiund 🖈 2669 ! 1135			
₽	Мар	RELEASE V5.2.1			
4	Energy	MAINTAINER GROSPOGRIGIO			
Ξ	Logbook				
11.	History	tuug			
	HACS	and local taya	Local Tuya	×	
۵	Media	A Home Assistant custom Integration for local handling of Tuva-based de-	Show beta versions		
>_	Terminal	This custom integration updates device status via pushing updates instead			
Ê	To-do lists	The integration also supports the Tuya IoT Cloud APIs, for the retrieval of	Select version v5.2.1	•	
		NOTE: The Cloud API account configuration is not mandatory (LocalTuy: performed only at startup, and when a local_key update is needed.	When downloaded this will be located in '/config/custom_components/localtuya'	date after re-pairing a device) of local_keys. Cloud API calls are	
		The following Tuya device types are currently supported:	Remember that you need to restart Home Assistant before changes to in (custom components) are applied	itegrations	
		Switches	(autoin_components) are apprea.		
		Lights	DC		
		Covers			
		• Fans			
		Climates			
7	Developer tools	• vacuums			
		Energy monitoring (voltage, current, watts, etc.) is supported for compatible	devices.		
\$	Settings	Currently, Tuya protocols from 3.1 to 3.4 are supported.			
٠	Notifications	This repository's development began as code from @NameLessJedi, @milep other features. Refer to the "Thanks to" section below.	erhour and @TradeFace. Their code was then deeply refactored to pro	ovide proper integration with Home Assistant environment, adding config flow and	
t		Installation:			



### **Adding Pet Feeder to Home Assistant**

- 1. Download the "Tuya Smart" app to your smartphone.
- 2. Press both buttons on the pet feeder at the same time.
- 3. Run the "Tuya Smart" app, press "Add Device", the Pet feeder should appear automatically, turn on your Bluetooth if it doesn't. Insert the wireless credentials and press login. **Make sure**

#### the pet feeder and the Home Assistant are in the same network.

4. Navigate to Tuya IoT development platform and create an account.

## Create Your Tuya Account

* Email	
@gmail.com	
<ul> <li>Verification Code</li> </ul>	
837329	Resend After 14 s
Password	
	<b>&gt;</b>
Confirm Password	
	<u>~</u>
Organization Name	
Company Name (Optional)	
Country/Region	
Germany	$\vee$
<ul> <li>Agree to Terms of Use, Legal Statement, Pr</li> <li>I declare that I have reached legal age of m the capacity to consent to the above docur</li> </ul>	ivacy Policy najority and have ments.
Next	

- 5. Once the account is created, navigate to the developer platform on the top right corner of the page you were redirected to.
- 6. Skip the tutorials, hover the cursor over "Cloud" on the sidebar and click on "Development".



#### Fig. 14

 Click on "Create Cloud Project" on the Development page. Fill in the project details. Pick "Custom" Development method and "Central European Data Center", pick the rest as you see fit.

tuyດ້	Developer Platform			Help	Documents	Tech Support	English(EN) *	My Space *	₩	
Overview	Development Based on the API products and supporting technical services provided by the Cloud Developme	Create Cloud Project		x						
Product	Operation Guide Cloud Development Website 71	* Project Name:	pet feeder							
App	My Cloud Projects Upgrade IoT Core Plan>)	Description:	Please briefly describe the functions and scenarios of your project, with no more than 255 words.					$\Rightarrow$	Create C	loud Project
Cloud										
Data		* Industry:	Others V							
Operation		* Development Method:	Custom							
Purchase		Data Center ③:	Central Europe Data Center ×							
VAS 77	•		Cancel		<b>~</b> <sup>2</sup>					

# 8. In the next step, add "Smart Home Basic Service" and "[Deprecate]Device Log Query" to the selected API services. Click on "Authorize".

Authorize API Services			
The platform recommends some API services, and you can remove o and this project will be granted access the API products.	e and sele	ct them as needed. The selected unsubscribed API s	ervices will be subscrib
Select API Services	All	Selected API Service(s) (5)	Delete Al
Fire Protection Service	>	loT Core Free Basic Resource Pack	×
Vehicle Detection	>	Authorization Token Management	X
General Scene Template	>	Industry Basic Service	×
Elevator Control Service	>	Smart Home Basic Service	×
Pet Detection	>	[Deprecate]Device Log Query	×
Country and City Info	>		

#### Fig. 16

9. Now that the project is created, let's add the pet feeder to the project. Navigate to "Devices"  $\rightarrow$  "Link Tuya App Account"  $\rightarrow$  "Add App Account".

tuya	Developer Platform				Help	Documents	Tech Support English(EN	) 🔻 My Space	er 🗑 🐥 🖩 🔺	
Overview	← pet feeder Switch Project ♥						Show Wizar	d 🗸 🦳 Centr	ral Europe Data Center 🗸 🌒	
Product	Overview Authorization Service API	Overview Authorization Service API Devices Message Service Project SaaS								
App	You can add devices to a project by using the IoT Device Management app, and can also link device resources of other apps. 🗢 Operation Guide 🔹 View Device Linking Methods									
Cloud	All Devices Link My App Link My W	eChat Mini Program Link Tuya Ap	Dip Account Link SaaS							
Data	You can link devices to this project by using accounts of S	mart Life App. Already added 0 accounts and	d linked 0 devices.						Add App Account	
Operation	App Account	UID	App Name	Devices	Linked Projects		Device Linking Method	Linked Devices	Operation	
Purchase										
VAS 7										
	<b>&gt;</b>			No data found						

- 10. A QR code will appear, open the "Tuya Smart" app on your phone, press on "Me" on the bottom right and then press on the scan icon on the top right, scan the QR code.
- 11. After the QR code is scanned, pick "Automatic Device Linking Method" and click on OK.

Link Tuya App Account	×
You are trying to link the "Tuya Smart" App Account and subordinate devices with this project. Please select the device linking method and device permission to continue.	
Device Linking Method	
Automatic Link (Recommended) : After you confirm the linking operation, all devices under the App Account     will be automatically linked with the project.	
Custom Link : After you confirm the linking operation, you need to manually select and link the specified device(s) with the project.	
Cancel	ок

12. Once the linking is complete, you should be able to see your account details on the "Link Tuya App Account" tab. **Make note of the "UID"**, we will use this later. Click on "Manage Devices".

tuya	Developer Platform		Help	Documents Tech S	support English(EN) 🔻	My Space 🔻	- H + I	# <b>1</b>					
Overview	← pftk Switch Project ♥						Show Wizard ~	Central	Europe Data Center	~ 0			
Product	Overview Authorization Service API Devices Message Service Project SaaS												
App	You can add devices to a project Device Linking Methods	t by using the IoT Device Management app. and can also li	ak device resources of other apps. 🗢 Operation G	uide 📑 View									
Cloud	All Devices Link My Ap	D Link My WeChat Mini Program Link Tuya App	Account Link SaaS										
Data	You can link devices to this project b	y using accounts of Smart Life App. Already added 1 accounts and lin	xed 0 devices.						Add App A	ccount			
Operation	App Account	UID	App Name	Devices	Linked Projects	Devic	e Linking Method	Linked Devices	Operation				
Purchase	? @gmail.com	eu1714 YBR1	Tuya Smart	1	pftk	Custo	om Link	• [	Manage Devices Unlink	1			
VAS 7	•						Total Items: 1	< 1	> 10 Items/Pag	je 🗸			

Fig. 19

13. If the Pet Feeder is shown as unlinked, check the checkbox next to the pet feeder and hit "Link Device".

Manag	ge Devices								X					
• Yo d	You can choose either method to link devices. In the automatic mode, all devices under the app账号 will be linked with the cloud project if the device allowance of your IoT Core is sufficient. In the custom mode, you need to manually select and add device(s) to the cloud project.													
Information														
Name:	@gm	ail.com	Type:	app账号										
Linking	Linking Configuration													
Device 1	Device Management Method:Custom settings Modify													
Device	List													
Devic	е Туре 🛛 🗸	Device Permissi.	V Ente	r device info	rmation for f	Search								
🛃 1 D	evice(s) Selecter	Link Device	Unlink											
	Device Name	Device ID		Product	Device Status	Device Type	Activation Time	Device Permission	Operation					
	Pet Feeder	bfd6	liad	Nooie NPF01	Online	Real Device	2024-05-24 12:37:36		Link					
							Total Items: 1	< 1 >	10 / page $ \lor $					

14. Confirm the pet feeder exists on the "All Devices" tab, do not close this webpage.

tuya	Develo	per Platfo	rm						Help Documents	Tech Support English(EN) ¥ My Spac	e* 🖷 📮 🎹 🏯
Overview	•	<del>;</del> pftk	Switch Project \$	Service ADI Devices	Massage Service Devicet	in f				Show Wizard ~ Cent	ral Europe Data Center \vee 🌒
Product		verview	Autionzation	Service APT Devices	message service Project.						
App	Yo	ou can add o evice Linking	levices to a project by g Methods	r using the IoT Device Managem	ent app, and can also link devic	e resources of other apps. 🕏 Opera	tion Guide 🛛 🚹 View				
Cloud		All Devices	Link My App	Link My WeChat Mini Progra	m Link Tuya App Account	Link SaaS					
Data		View Device:	s by Product.								~
Coperation		Noole NP Devices:1	F01 Standard Instruction								
Purchase											
VAS 7		Choose	✓ Device <sup>−</sup>	Type V Device Perm	ission V Product	✓ Enter device name, or d	Search Reset	]			Add Device
	•	Device Name	e Device IE	0	Product	Source	Online Status	Device Type	Activation Time	Device Permission	Operation
		Pet Feeder	bfd£	163iad	Nooie NPF01	@gmail.com	Online	Real Device	2024-05-24 12:37:36	Read Change	Debug Device

- 15. Navigate back to the Home Assistant UI
- 16. Go to "Settings" → "Devices & Services" → "Add Integration" on the bottom right corner, Search for "LocalTuya". Click on "LocalTuya Integration".

=<	Home Assistant	÷		Integrations	Devices Entitles	н	lelpers	
	Overview	Q Search						
₽	Мар	Discovered						
4	Energy			Select brand	×			
=	Logbook	UniFi :		Search for a brand name				
1	History	UniFi Protect		Q localtuya	×		2	
	HACS	CONFIGURE		LocalTuya integration	♦ >	<		
	Media	O and annual					7	
>_	Terminal	Configured						
Ê	To-do lists	Bluetooth >	Goog Goog			>	HACS >	Home Assistant Supervisor
		1 DEVICE	1 DEVICE			0	1 SERVICE 🚳 🔿	5 SERVICES
		Meteorologisk institutt (Met.no)	foi Radio			>	Shopping List	IỘI Sun
			1 ENTRY				1 ENTITY	1 SERVICE
<i>»</i>	Developer tools							
~	Settings							
·								
<b>.</b>	Notifications						1	
-								

17. Once LocalTuya is installed, Cloud API configuration pop up will appear. Make sure API server region is EU. For the rest of the credentials, we need to navigate back to Tuya developer platform.

Cloud API account configuration 🕜	×
Input the credentials for Tuya Cloud API.	
API server region	
💿 eu	
O us	
O cn	
O in	
Client ID	
Secret	0
	0
User ID	
localtuya	
Do not configure a Cloud API account	
5	SUBMIT



18. On the left sidebar, hover on "Cloud" → "Development" → "Open Project". The "Client ID" and the "Secret" can be found under the "Overview" tab of the cloud project. (not the Overview on the sidebar, the one under our project name).

tuyດື	Devel	ioper Platform	Help	Documents	Tech Support
Overview		← pftk Switch Project ♥			
>_ Product	-	Overview Authorization Service API Devices Message Service Project SaaS			
App	1	The cloud development project is a collection of resources on the Tuya IoT Development Platform, including devices, APIs, and data. Resources deployed for each project are isolated from those for the other projects. 🕏 Operation Guide			
Cloud		pftk			🖉 Edit
<b>∼</b> Data		Industry : Smart Home Creation Time : 2024-05-08 16:13:28 Data Center : Central Europe Data Center			
		Authorization Key 🚳		View Aut	horization >
Operation Purchase		Access ID/Client ID: qj8 yjtj Access Secret/Client Secret: ************************************			
VAS 7	•	Cloud Authorization IP Allowiist 🛛 🕥			

Fig. 24

- 19. Insert the credentials back to Home Assistant. Use the previously mentioned "UID" from "Link Tuya App Account" tab and click on "Submit".
- 20. LocalTuya Integration is now linked with your Tuya Development Account. We still need to configure the pet feeder for local use.
- 21. You will be redirected to LocalTuya integration page, if not, Navigate to "Settings" → "Devices & Integrations" → "LocalTuya".
- 22. Click on "Configure" on the same page  $\rightarrow$  "Add a New Device"  $\rightarrow$  "Pet Feeder" (which should be recognized automatically) and submit.

🔬 local tuya		Integration entries	
5.2.1		localtuya No devices or entities	CONFIGURE
Sustom integration		ADD ENTRY	
N Documentation	Z		
Known issues	Z		





Name	* Fooder								
Pel	reeder								
Host 192	168.2								
Devic b1	e ID*	3iad							
Local	key* (	}_n							
rotoc	ol Version								
0	3.1								
0	3.2								
0	3.3								
0	3.4								
	Enable deb	ougging for th	is device (	debug mu	ist be ena	ibled also	in confi <u>c</u>	guratior	n.yam
Sca	n interval (s	seconds, onl	y when n	ot updati	ng autoi	matically	)		



 Skip to step 23 if the credentials of the Pet Feeder are configured automatically. If the Pet Feeder's configuration is **not set automatically**, navigate back to the Tuya Developer Platform, hover on the "Cloud" icon on the sidebar → "API Explorer".



Fig. 29: Optional step, refer to step 22.a.

- 2. On the API explorer, Navigate to "Query Devices in Project" on "Device Management".
- 3. Type "1" to "page\_size" and click on "Submit Request".
- 4. The response query gives us credentials of the device. We can find the local key and device id (called "id").

Core  V Central Europe Data Center  V	Debugging Result View Docs Locate Errors
rch Q Query Devices in Project ③	1564476DED52D65266FF76C65EB81DC5E8EFABFB5E111803FC6A"header "access_token: 03e6 bdf052953e96b97da7b8c48b67"
pace Management	
Device Management	Durante
Get Status Reporting	Kesponse C
* page_size ② :	{
Get Update Progress 1	"result": [
Query Device Details i product_ids ② :	
string	"bindSpaceId": "101/05020"
Delete Device	"category": "cwwso".
Get Update Information categories ② :	"createTime": 1715678729,
string	"customName": "",
Query Device Details last_id ② :	"icon": "smart/icon/ay1514359068372Hd98B/7417249f407bb07aab91b7a3befbc
Confirm Start of Update	"id": "bfd671 :iad",
Gat Davice State	"isOnline": true.
Set Operation Log	"localKey": "eVCgi NZ",
Modify Basic Properties	"lon": "6.55",
	"model": "",
Freeze/Unfreeze Device	name : Pet Feeder , "productId":
Iransfer Device	"productid . "productName": "Nooie NPF01".
	"sub": false,
Restore Factory Defau	"timeZone": "+02:00",
Query Devices in Space	"updateTime": 1716800172,
	"uuid":
Query Devices in Proj	
Pair Device by Scanni	"success": true,
	"t": 1716815105151,
Query Pairing Kesuit	
vice Control	}
vice Group	
ana Liakaga Dulas	

Fig. 30: Optional step, refer to step 22.a.

- 5. The Host address can be obtained via your router's web interface.
- 23. After you submit, you will be met with the "Entity Type Selection" pop-up. The pet feeder has different functions such as dispensing food or turning the LED on the pet feeder on and off. Each of these functions has their own "Data Point ID" to communicate with the cloud. We need to intercept these Data Points and create separate entities to control the device via the Home Assistant.

Entity type selection	?	×
Please pick the type of entity you want to	o add.	
Platform* switch		•
	S	UBMIT

Fig. 31

24. Do not exit the Home Assistant instance and navigate back to Tuya Developer Platform. Open your project and navigate to "All Devices" tab under "Devices" and click on "Debug Device".

21/26

← pftk s	witch Project 🗢	Show Wizard ~	Central Europe Data Center V											
You can add devi Device Linking M	Su can add devices to a project by using the IoT Device Management app, and can also link device resources of other apps. So Operation Guide Device View evice Linking Methods													
All Devices	Link My App	Link My WeChat Mini Program	Link Tuya App Account	Link SaaS										
View Devices by	View Devices by Product.													
Nooie NPF01 Devices:1	Noole NPF01 Devices1 Standard Instruction													
Choose	V Device	Type V Device Permissio	on V Product	✓ Enter device name, or d	Search Reset				Add Device					
Device Name	Device IE	)	Product S	ource	Online Status	Device Type	Activation Time	Device Permission	Operation					
Pet Feeder	b	iad	Nooie NPF01	@gmail.com	Online	Real Device	2024-05-27 10:56:08	Read Change	Debug Device					

Fig. 32

- 25. On the device debugging page, under "Standard Instructions Set" are the functions of the device we can set new values for. Under "Standard Status Set" are the previously mentioned functions and the available sensors of the device.
- 26. To find out which Data Point is associated with which function of the device, navigate to "Device Logs" tab.

← pftk Sv Overview A	vitch Project 🗘	Service API <b>Devices</b> Me	ssage Service Project Sa	aS				Show Wizard V	Central Europe Data Center V				
fou can add devices to a project by using the IoT Device Management app, and can also link device resources of other apps. S Operation Guide View Device Linking Methods													
All Devices	Link My App	Link My WeChat Mini Program	Link Tuya App Account	Link SaaS									
View Devices by	View Devices by Product.												
Noole NPF01 Devices:1	Standard Instruction												
Choose	V Device 1	ype V Device Permissio	on V Product	V Enter device name, or d	Search Reset				Add Device				
Device Name	Device ID		Product	iource	Online Status	Device Type	Activation Time	Device Permission	Operation				
Pet Feeder	b	iad	Nooie NPF01	@gmail.com	Online	Real Device	2024-05-27 10:56:08	Read Change	Debug Device				

Fig. 33

- 27. Turn the developer console on of your browser (CTRL+SHIFT+I or F12 for Google Chrome). Navigate to "Network" tab on the developer console.
- 28. Notice the "Select DP ID" dropdown menu on the top left side of the page.
- 29. While the Developer console is on, click on the DP ID dropdown menu and select "Manual Feed", click on "Search".
- 30. After you click on "Search", you should see the network tab of your developer console update with several different logs. "list" is the one we are looking for.

tuge IoT Platform Device De	ebugging pftk Swite	tch Project 🗘				English(EN) 🔻 My Spa	ace 🕶 🔔 🛛 🕅 🕅		Sources Netw	ork 💛 🙁 🤮 9		
Central Europe Data Center V	Basic Information	Device Debugging	g Device Log	IS					log 🛛 🔲 Disable 🚽	he No throttlin		± ∣⊛
Tuya App Account / taycankaya@ ∨	Select DP ID V	lect device ven	t V 2024-05-27	7 16:05:19 → 2024-05-2	27 16:05:19	Search	Filter All Fetch/2 Blocked re	HR Doc CSS JS sponse cookies B	nvert     Hide a Font Img Media locked requests	ta URLs 🔲 Hid Manifest W 3rd-party reques	e extension URI Wasm Ott	il.s ther
Enter device ID Q	Time	Device Event	DP ID	Event Details	Source	Source Details	1 1	0 ms 40 m	s 60 ms	80	ms	100 ms
Pet Feeder(bfd67fe2ceb62d3d963iad)				新元日志								

Fig. 34

31. Click on "list", and navigate to the "Payload" tab, "Code" is the Data Point ID we are looking for. In this case it's 3.

🧮 🗖 Elements Console Sources Net	work Performance Memory	Application Securit	ny >> 😣 11	🗛 3 🗖 1   🕄 🗄 🗙
O   ▼ Q   □ Preserve log   □ Disable	cache No throttling 🔻 🙃 🛛 🛨	, Ł		÷
Filter Invert   Hide	data URLs 🔲 Hide extension URLs			
All Fetch/XHR Doc CSS JS Font Img Me	dia Manifest WS Wasm Other	🔵 🔲 Blocked response	cookies 🔲 Blocked re	quests
3rd-party requests				
20000 ms 40000 ms 60000 ms	80000 ms 100000 ms 120000 —	ms 140000 ms	160000 ms 180000 —	) ms 200000 ms 220
Name	X Headers Payload Preview	w Response Initiato	or Timing Cookies	
○ data:image/svg+xml,	▼Request Payload view source	ce		
(i) list	▼{startRowId: "", pageNo: 1	l, pageSize: 10, cod	le: "3", startTime: :	1716818719016, endTime: 1
tpm.gif?ss=1920x1080&ws=898x963&sp=0x0∾	code: "3"			
tpm.gif?ss=1920x108080ws=898x96380sp=0x080ac	deviceId: "D+d6/+ endTime: 1716818719017	ad"		
envelope/:sentry_key=92a/49b350b049b19d/09 tom gif2cc=1020v10908tuc=006v0628tcp=0v08tac	pageNo: 1			
tpm.giff3s=1920x1080&ws=996x963&sp=0x0∾	pageSize: 10			
	projectCode: "p171	"at		
	region: "EU"			
	sourceId: "eu171	IR1"		
	startRowId: ""			
	startTime: 1716818719016			

Fig. 35

- 32. The ID is our Data Point, which is 3.
- 33. Navigate back to "Device Debugging" tab, make note of the manual\_feed's type and values. It's an integer with a minimum value of 1, maximum value of 20 and with a step of 1.

Control Device with Standard Update Device Status	JSON Editing	Standard Instruction	n Set Star	ndard Status Set
Instruction Set		Code	Туре	Values
feed_report (0 - 20)	0	meal_plan	Raw	0
charge_state battery_percentage (0 - 100%) manual_feed (1 - 20)	0	manual_feed	Integer	{ "unit": "", "min": 1, "max": 20, "scale": 0, "step": 1 }
0	1	factory_reset	Boolean	"{true,false}"
factory_reset		light	Boolean	"{true,false}"
light				

- 34. Navigate back to Home Assistant, last time, we were at the Entity Type Selection pop-up.
  "Settings" → "Devices & Services" → "LocalTuya" → "Configure" → "Add a new Device" → "Submit" → "Submit".
- 35. Let's add the manual feed function to LocalTuya. LocalTuya includes integers in "number", pick

it from the dropdown menu and submit.

Entity type selection	0	×
Please pick the type of entity you wa	nt to add.	
Platform* number		•
	SI	ЈВМІТ

Fig. 37

36. The "ID" dropdown menu includes DP IDs of the pet feeder, we know 3 is manual feed. From the dropdown menu, pick 3. Call it Manual Feed. The minimum value is 1, maximum value is 20 and the increment between values is 1. Click "Submit'.

Configure entity 🕜	×
Please fill out the details for an entity with type number. All settings except for can be changed from the Options page later.	ID
<sup>ID*</sup> 3 (value: 3)	•
Friendly name* Manual Feed	
Minimum Value 1	
Maximum Value* 20	
Minimum increment between numbers* 1	
Restore the last set value in HomeAssistant after a lost connection	
Passive entity - requires integration to send initialisation value	
Default value when un-initialised (optional)	
SUI	вміт

37. On the next step, the entity type selection will appear again, for now, check the "Do not add any more entities" and click "Submit" (we can always add more later).



38. Now let's see if the manual feed entity works. Click on "1 device" below the logo of localtuya.

🔬 local tuy	ya	Integration entries	
5.2.1		localtuya 1 device and 1 entity	CONFIGURE
😚 Custom integration		ADD ENTRY	
🔲 1 device	>		
▲ 1 entity	>		
Documentation	Z		
Known issues	Ø		
💐 Enable debug logging			

Fig. 40

39. Slide the Manual Feed to any value and check the Pet Feeder is dispensing food.

Controls	3
Manual Feed	• •
ADD TO DASHBOARD	

#### Fig. 41

40. Add more entities by repeating step 26 and beyond.

From: https://student-wiki.eolab.de/ - HSRW EOLab Students Wiki

Permanent link: https://student-wiki.eolab.de/doku.php?id=amc:ss2024:bird\_feeder:ha\_installation&rev=1717402706

Last update: 2024/06/03 10:18

