

# EMBARCADERO CONFERENCE



 embarcadero®

# Integrando Dispositivos Comerciais Tuya-Alexa

Sileide Campos



CONFERENCE

EMBARCADERO CONFERENCE 2022



# Sileide Campos

- Engenheira de Controle e Automação
- Pós Graduanda em Data Science Analytics
- MVP Embarcadero
- Dev Pleno na TMR



# Empresas que ninguém conhece!





# Automação Residencial | Comercial | Industrial



# Marcas de Dispositivos



Positivo



Nova Digital



eWelink



# Plataforma de Desenvolvimento Tuya IoT



# Serviços Tuya



Product Development



Cloud Development



App Development



# Desenvolvimento de Produto



Product Development

# Desenvolvimento de Aplicativos



App Development



# Desenvolvimento na Nuvem



Cloud Development

# Desenvolvimento na Nuvem

**tuya IoT Platform** API Explorer smartwatch Switch Project ↕English(EN) ▾ My Space ▾

IoT Core ▾Western America Data Center ▾Debugging Result View Docs Locate Errors

General Devices management

- Check whether a ...
- Get the device inf...
- Delete devices in ...
- Modify the device...
- Delete a device
- Restore defaults
- Get the list of sub...
- Modify the frozen...
- Get the informati...
- Query the factory ...
- Get device attribu...
- Get Device Inform...**
- Get Device List
- Get Device Specifi...
- Get Extended Pro...

### Get Device Information ⓘ

Parameter(Request Method: GET)

**Params**

\* device\_id ⓘ :

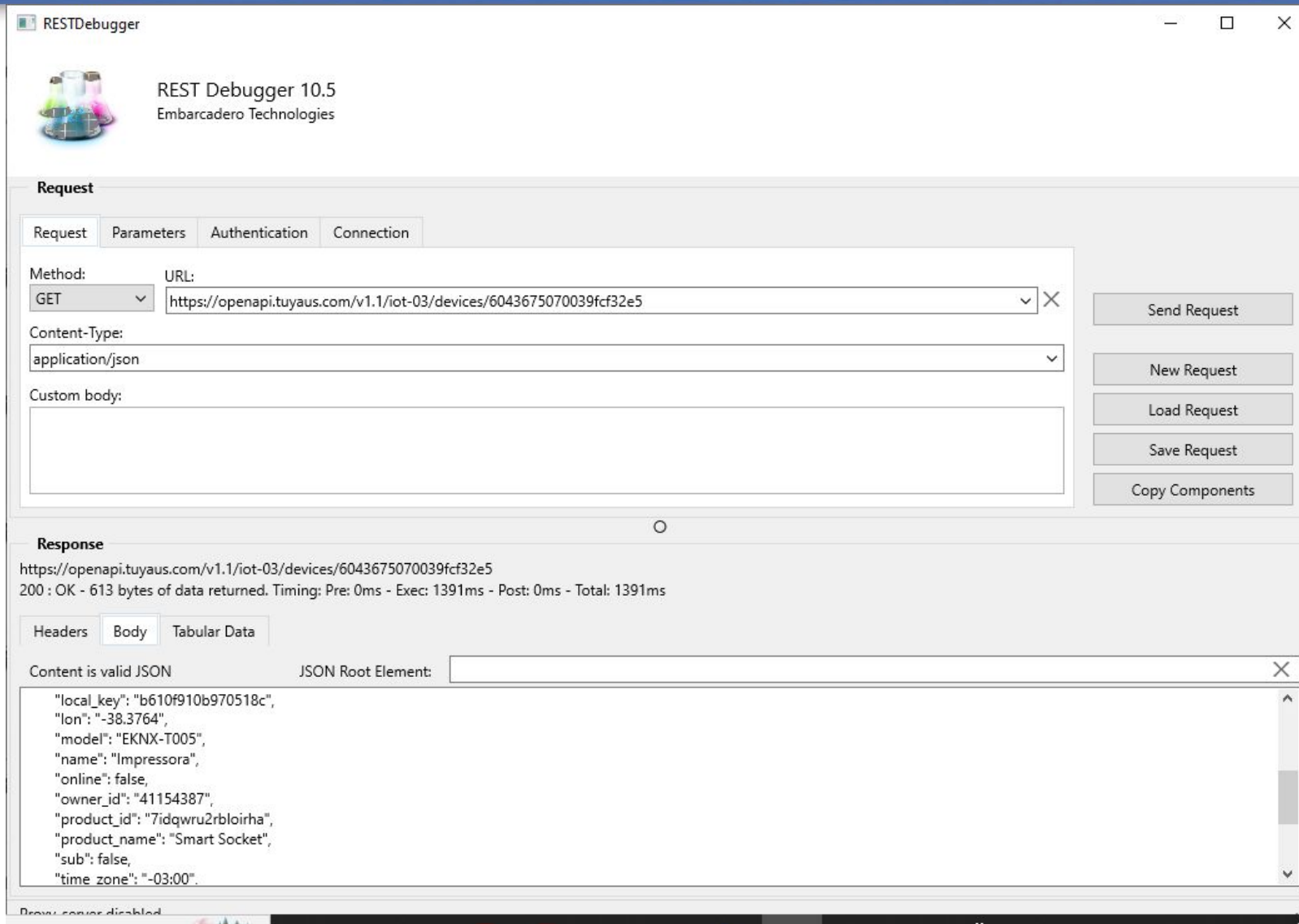
ebe0dfc8afb253dba513b

Submit Request

```
{
  "result": {
    "active_time": 1645647874,
    "category": "kg",
    "category_name": "Switch",
    "create_time": 1632876901,
    "gateway_id": "",
    "icon": "smart/icon/ay1535193862006vs1if/7dcc758cf2cfda6febdb1dbcd7367c7.png",
    "id": "ebe0dfc8afb253dba513b",
    "ip": "177.82.198.84",
    "lat": "-12.9345",
    "local_key": "6948472e2846f551",
    "lon": "-38.3764",
    "model": "CB35",
    "name": "sala",
    "online": true,
    "owner_id": "41154387",
    "product_id": "kdjc9drkgfdlnsja",
    "product_name": "Smart 3-Gang Switch",
    "sub": false,
    "time_zone": "-03:00",
    "update_time": 1645647879,
    "uuid": "518bd8c1e110e476"
  },
  "success": true,
  "t": 1667118011961,
  "tid": "ac7912aa582b11ed912596dbc75dca5a"
}
```



# Desenvolvimento na Nuvem



**REST Debugger 10.5**  
Embarcadero Technologies

**Request**

Request Parameters Authentication Connection

Method: GET URL: <https://openapi.tuya.com/v1.1/iot-03/devices/6043675070039fc32e5>

Content-Type: application/json

Custom body:

Send Request  
New Request  
Load Request  
Save Request  
Copy Components

**Response**

<https://openapi.tuya.com/v1.1/iot-03/devices/6043675070039fc32e5>  
200 : OK - 613 bytes of data returned. Timing: Pre: 0ms - Exec: 1391ms - Post: 0ms - Total: 1391ms

Headers Body Tabular Data

Content is valid JSON JSON Root Element:

```
{
  "local_key": "b610f910b970518c",
  "lon": "-38.3764",
  "model": "EKNX-T005",
  "name": "Impressora",
  "online": false,
  "owner_id": "41154387",
  "product_id": "7idqwru2rbloirha",
  "product_name": "Smart Socket",
  "sub": false,
  "time zone": "-03:00"
}
```

# Dispositivos Compatíveis

## CUSAM

iOS 

2.4 GHz  
Wi-Fi



WORKS WITH  
amazon alexa

works with  
Google Assistant



Works with Siri  
【iOS12.0 or later】



Tuya Smart



Smart Life

## Smart Zigbee Gateway



Flood  
Sensor



Bulb



PIR  
Sensor



Temperature  
sensor



Humidity  
Sensor



Light  
Switch



Door/Window  
sensor



Smart  
Plug



Wireless



## AVATTO





# the developer's life



# Logs



Log Tomada			
Status	Consumo	Log	Retorno Status
Início:	08/11/2022	00:00:00	
Fim:	08/11/2022	23:59:59	
Buscar Log			
Corrente: 0,446A			
Potência: 43,2W			
08/11/2022 00:45:25			
Corrente: 0,324A			
08/11/2022 00:43:53			
Corrente: 0,243A			
Potência: 21W			
08/11/2022 00:43:49			
Ativado			
08/11/2022 00:43:48			
Corrente: 0,396A			
Potência: 28,8W			
08/11/2022 00:43:12			



# Dispositivos Conectados Tuya



# Dispositivos Conectados Tuya





# Dispositivos Conectados Tuya



# Cloud Services API

- **APIs for Industry Projects**

Authorization Management

Industrial General Device Registration

Industrial General Device Management

Industrial General Device Status Query

Industrial General Device Control

Industrial General User Management

Industrial General Asset Management

- **Smart Home APIs**

Authorization Management

Smart Home Device Management

Smart Home Management

Smart Home Scene Linkage

Smart Home Data Service

- **General Capabilities**

Device OTA Update

Email

App Push

Message Service

Weather Service

Location-based Service

- **Extension APIs**

Universal Infrared Open APIs

Body Fat Scale Open APIs

Smart Lock Open APIs

Video Cloud Storage

IoT Live Video Stream

**Comunicação com a API**

**Controles / Visualizações**

**LET'S CODE!**



# Outras plataformas...





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