



Communication protocol
IMAGINA-TABACON
Version 0.3



IMAGINA INGENIO

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IMAGINA INGENIO

1. Introduction

1.1 Ids

Name	Description
API_URL	Path where the API is located.
ID_IMAGINA	Machine id in IMAGINA
BOARD_NUMBER	Number of a Tabacon board.
UUID_TABACON	Id Tabacon assigned to a IMAGINA machine that has been activated in Tabacon.

1.2 Authentication

Authentication to the API is provided by HTTP Basic Auth. All requests to the API must be made over HTTPS. The Authorization header must be constructed as follow:

```
Authorization: Basic <base64 encoded API_User:API_Password>
```

The API_User and API_Password will be provided by Imagina Ingenio.

1.3 Response data

The responses will be in JSON format. Successful responses will be returned with the HTTP 200 code. Raw JSON response examples:

```
{"alive":1}
```

```
{"status":"ok","msg":"ok"}
```

Erroneous responses will be returned with HTTP code different than 200. A JSON will be returned with the label "status" with the value "error", and the label "msg" explaining the error. Raw JSON response example:

```
{"status":"error","msg":"request not found"}
```

2. Requests

2.1 Alive

Indicates if the destination server is operational.

Request details

Parameter	Method	Endpoint
alive	GET	{API_URL}/alive

Response data

Parameter	Type	Description
alive	Integer	Returns 1 if everything OK. 0 if there is a problem in the system.

2.2 Machine

Request information about a IMAGINA machine.

Request details

Parameter	Method	Endpoint
machine	GET	{API_URL}/machine/{ID_IMAGINA}

Response data

Parameter	Type	Description
idImagina	Integer	Machine id in IMAGINA
board_number	Integer or Null	Tabacon board number assigned to the IMAGINA machine. Null if it does not yet have a board assigned.
uuidTabacon	Integer or Null	Id Tabacon assigned to the IMAGINA machine. Null if the machine does not have Id Tabacon yet.
cash	Integer	Returns 1 if the machine supports cash payments. 0 if not.
tpv	Integer	Returns 1 if the machine supports card payments. 0 if not.
model	String	Machine model according to the manufacturer.
manufacturer	String	Manufacturer of the machine.
columns	Integer	Number of columns of the machine button panel.
rows	Integer	Number of rows of the machine button panel.
recovery	Integer	Returns 1 if the last key in the first row corresponds to the recovery key. 0 if not.
display	Integer	Returns 1 if the machine has a display integrated in the button panel. The display occupies 4 keys in the middle of the first row. 0 if not.

inverted	Integer	By default the button panel draws from left to right. 0 if it is from left to right. 1 If drawing from right to left.
products	Array	List of products of the machine and the keys where they are assigned. Explained below.

Products Array

Parameter	Type	Description
{index}	Integer	Array index. In Jofemar V2 machines, the index corresponds to the product number (union). In the rest of the machines the index is incremental integer without relevance.
logistaCode	Integer	Code provided by the Logista distributor to identify the product. In Spain Logista is used as a reference for tobacco.
brand	String	Product name.
product_image	String	URL where you can get an image of the product.
price	Integer	Machine price in euro cents.
stock	Integer	Quantity of tobacco packs in the machine.
keys	Array	List of keys assigned to the product. Explanation below.

Keys Array

Parameter	Type	Description
{index}	Integer	Array index. Key number.
row	Integer	Row where the key is located on the button panel.
column	Integer	Column where the key is located on the button panel.

2.3 listMachines

List of client machines. By default, it will only show the machines without Tabacon board. If 1 is passed as a parameter (“all” parameter), it will return all the client's machines, indicating the Tabacon board number and the corresponding Tabacon id of the corresponding machines.

Request details

Parameter	Method	Endpoint
listMachines	GET	{API_URL}/listMachines/{all}

Response data

Parameter	Type	Description
idImagina	Integer	Machine id in IMAGINA
name	String	Name of the machine in IMAGINA. Usually clients use the name of the place where the machine is.

model	String	Machine model according to the manufacturer.
municipality	String	Name of the municipality where the machine is located.
province	String	Name of the province where the machine is located.
postal_code	String	Postal code where the machine is located.
street	String	Name of the street where the machine is located.
street_number	Integer	Street number where the machine is located.
board_number	Integer or Null	Tabacon board number assigned to the IMAGINA machine. Null if it does not yet have a board assigned.
uuidTabacon	Integer or Null	Id Tabacon assigned to the IMAGINA machine. Null if the machine does not have Id Tabacon yet.

2.4 assignTabacon

Assign a Tabacon board to a IMAGINA machine. You must also send the Tabacon Id that you want to use for said relationship. A Tabacon board cannot be assigned to a IMAGINA machine that already has a Tabacon board. Ids Tabacon cannot be repeated. All 3 parameters cannot be in use. If you want to reuse a board, it must first be unassigned from the machine using the "removeTabacon" request.

Request details

Parameter	Method	Endpoint
assignTabacon	PUT	{API_URL}/listMachines/{BOARD_NUMBER}/{ID_IMAGINA}/{UUID_TABACON}

Response data

Parameter	Type	Description
status	String	Returns "ok" if the operation was successful. Otherwise it returns "error".
msg	String	Returns "ok" if the operation was successful. Otherwise it returns a description of the error.

2.5 removeTabacon

Unassign from a IMAGINA machine its Tabacon board and its corresponding Id Tabacon.

Request details

Parameter	Method	Endpoint
removeTabacon	PUT	{API_URL}/listMachines/{ID_IMAGINA}

Response data

Parameter	Type	Description
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status	String	Returns "ok" if the operation was successful. Otherwise it returns "error".
msg	String	Returns "ok" if the operation was successful. Otherwise it returns a description of the error.



3. Request messages.

Message (msg)	HTTP Code
ok	200 – OK.
request not accepted	405 – Method Not Allowed
request without content	400 – Bad Request
not all parameters received	400 – Bad Request
type of variable unknown or wrong	400 – Bad Request
missing parameters in the request	400 – Bad Request
access denied to the requested machine	400 – Bad Request
machine not found	400 – Bad Request
request not found	404 – Not Found
ko	400 – Bad Request
unknown error	400 – Bad Request
board in use on another machine	400 – Bad Request
idImagina in use on another board	400 – Bad Request
uuidTabacon in use on another board	400 – Bad Request
board not assigned	400 – Bad Request