



INTEGRATION REFERENCE

Distributor API

Voucher issuance, reporting and CASHlib Direct deposit interfaces

Version 1.2.0

14 ENDPOINTS DOCUMENTED

Contents

This PDF is generated from the OpenAPI specification. The interactive documentation remains the source for testing and exploration.

1.2.0

API VERSION

14

ENDPOINTS

4

FUNCTIONAL GROUPS

Voucher

POST	/api/distributor/voucher_creation	Voucher Creation
POST	/api/distributor/voucher_cancel	Voucher Cancel
POST	/api/distributor/voucher_cancel_batch	Voucher Cancel Batch
POST	/api/distributor/voucher_enquiry	Voucher Enquiry
GET	/api/distributor/voucher	Voucher Information

Invoice

GET	/api/distributor/invoice	Invoice Information
GET	/api/distributor/invoice/csv	Invoice CSV
GET	/api/distributor/credit	Credit Note Information
GET	/api/distributor/credit/csv	Credit Note CSV

CASHlib Direct

POST	/api/distributor/cezam	Cezam Deposit
POST	/api/distributor/cezam/validate	Cezam Validate
POST	/api/distributor/cezam/cancel	Cezam Cancel
POST	/api/distributor/cezam/status	Cezam Status

Endpoints to implement (Optional)

POST	/endpoint/kyc/example	Kyc Request
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Distributor Cashlib

This document is the specification for the interface between CASHlib and Distributors.

Introduction

CASHlib permits a person to buy a **voucher** at a Distributor **Point Of Sale (POS)**. Then he can pay his purchases on affiliated e-merchant web sites with the vouchers he has previously bought.

CASHlib voucher is a paper ticket with a 16 digit **Code** associated with a **Value** and an **Expiry_date** (and other attributes).

User has to enter the 16 digit code on the e-merchant website to make his payment. If the purchase amount is lower than voucher value then the voucher **Balance** is updated with the remaining value and the user may later make other payments with this voucher. If the purchase amount is higher than user's voucher balance then the user may add other vouchers to reach the payment amount.

When the user asks for a voucher with associated value at the Distributor's POS, the request is sent, via the distributor, to CASHlib which creates the requested voucher. Then, CASHlib sends this voucher and associated information back to the POS (via Distributor) where the voucher ticket is printed. Voucher value and balance are defined in Cents (eg 14.37€).

Vouchers can also be bought on-line (Distributor or KAYROS websites) using the same Distributor interface.

Vouchers issued by CASHlib can be branded ("White label": Partner's brand with vouchers to be used only for purchases in the Partners websites) or non-branded (ie KAYROS). Processing branded or non-branded vouchers is the same but fees/commissions are different:

- For non-branded vouchers, a 100€ voucher is bought 100€ and permits 100€ purchase on Merchant web sites.
- For branded vouchers, the Brand may request to share the fees between Distributor and Merchant sides. Then, the voucher **Price** to be paid at the POS is higher than the voucher nominal Value. For example, a 100€ voucher is paid 102€ at the Distributor's POS and permits 100€ purchase on Merchant websites.

Within a Brand, it is possible to define a Merchant in order to make Direct Deposit:

- Distributor sends a customer's ID in the voucher creation request
- With this Customer's ID, CASHlib tries to make a Direct Deposit on customer's ID account at the Merchant website via a dedicated webservice (SESAME)
- If the Direct Deposit is successful then a voucher is sent back to the Distributor with balance=0 and a communication text such as "Direct Deposit has been successfully made."
- If the Direct Deposit is not successful then a voucher is sent back to the Distributor with balance = deposit amount and a communication text such as "Direct Deposit failed but you can use this voucher to credit your account on the Merchant website".

Each Brand is assigned a **Brand_ID** by KAYROS.

A **Crosscountry** voucher is bought in a country and may be used for purchasing in another country. 13 digit EAN codes are associated to vouchers different categories (for each Brand):

- Standard values (10, 20, 50, 100 and 250€) : 1 EAN code per standard value and per issuance country
- Other voucher values: 1 EAN code per issuance country Each Distributor is assigned a Distributor_ID by KAYROS.

Within a Distributor, each POS is identified by a POS_ID (to be assigned by associated Distributor) CASHlib management and administration is made via a ****Backoffice** web site which is accessible to Distributors (with access only to their area) and KAYROS administrators/managers (full view).

CASHlib V1 is limited to Merchants, Distributors and vouchers using the same currency (eg it is not possible to buy a £(GBP) voucher at a Distributor with invoices in €(EUR) or pay with a £ voucher at a Merchant with Settlements in €)

Distributor Interface Description

The following pages describe the interface between CASHlib and Distributors.

This interface relies on an https/TLSV1 link (V1.1 or V1.2). For some Distributors a dedicated VPN may also be required.

CASHlib proposes 4 web services (APIs) to the Distributors in order to manage voucher creation:

- Voucher_Creation
- Voucher_Cancellation
- Voucher_Enquiry
- Vouchers_download_info

Voucher_Creation is sent by a Distributor/POS to create a voucher. Created voucher information (code, expiry date...) is returned to the requestor.

Voucher_Cancellation may be sent to cancel a created voucher within a predefined time after its creation (MAX_DURATION_CANCEL, default 60s).

Voucher_Enquiry may be sent to check/retrieve Voucher_Creation returned information.

Vouchers_download_info may be sent to download .csv file of Vouchers information.

Resource information

These APIs are based on standard REST-LIKE functions sending requests with POST methods. Responses are JSON formatted. They are protected with an API Key which should be included in the request header (name apikey). 1 API Key is assigned to each Distributor by KAYROS.

In order to call the REST CASHlib APIs using POST method, a function has to be created. You have to use TLSv1.X to call the API.

Parameters are based on ISO standards

CASHlib - Distributor API - v1.2.0

- Currency : ISO 4217 ; <http://www.xe.com/iso4217.php>
- Country code : ISO 3166-1 alpha-3 ; http://en.wikipedia.org/wiki/ISO_3166-1_alpha-3
- Characters : UTF-8
- Reference for dates is UTC/GMT +1 (Europe/Paris). Date format is « yyyy-mm-dd hh:ii:ss ». Time is in 24H mode.

Sesame Winamax

Sesame Winamax allows an user to top up his Winamax account without using a CASHLIB voucher.

The user goes to a point of sale with a 13-character EAN barcode from Winamax, The distributor scans the barcode and enters the amount that the user wants to top up on his account.

At this point, a call to voucher creation with the brand id specific to Winamax as well as the customer_id and a positive response is sent back to the distributor.

The deposit on the account is made after a delay of 5 minutes. The 5 minutes delay allows the point of sale to cancel the deposit if a problem occurs at the point of sale.

CASHlib Direct (CEZAM)

CASHlib Direct (internal project name **CEZAM**) permits a consumer to make a **direct deposit on his Merchant account** at a Distributor Point Of Sale (POS), without having to use a CASHlib voucher code.

This section gathers the whole CASHlib Direct distributor interface. It replaces the standalone CEZAM distributor document, which is no longer maintained separately: </documentation/cezam/distributor/index.html> now redirects here.

Presentation and Terminology

At the Point Of Sale, the Customer shows his smartphone with the Merchant application displaying an **EAN 13 code** which is the customer's ID (13 digits, assigned by the Web merchant). The POS operator scans the EAN code displayed on the customer's smartphone and asks the customer for the amount he wants to deposit.

Customer's ID and deposit amount are sent to CASHlib via the Distributor interface. CASHlib creates a voucher then sends a deposit request to the Merchant website via the CEZAM interface.

CASHlib then sends the deposit response back to the Distributor with an indication whether the deposit was successful or not (ie error or invalid customer's ID) in the [communication_text](#) area.

Distributor Interface Description

The CASHlib Direct interface is similar to the standard CASHlib distributor interface described above: same host, same [apikey](#) header in the request header, same POST/JSON conventions and same ISO parameter formats (see *Resource information*).

CASHlib proposes the following web services (APIs) to the Distributors in order to manage a CASHlib Direct deposit:

- **Cezam Deposit** (`POST /api/distributor/cezam`) is sent by a Distributor/POS to generate a deposit.
- **Cezam Cancel** (`POST /api/distributor/cezam/cancel`) may be sent to cancel a deposit within a predefined time after its creation (5 minutes).
- **Cezam Status** (`POST /api/distributor/cezam/status`) may be sent to check the deposit returned information.
- **Cezam Validate** (`POST /api/distributor/cezam/validate`) is sent to confirm the deposit of a voucher created with a customer's ID, for Distributors configured in *deferred deposit* mode (see below).

Deposit Validation (deferred deposit)

Some Distributors are configured in **deferred deposit** mode. For those Distributors, the voucher creation request (`Voucher_Creation` with a customer's ID, or `Cezam Deposit`) only performs a **pre-deposit** on the Merchant side: the voucher is created and the transaction is left *pending*, but the customer's account is **not** credited yet.

The deposit is only executed once the POS explicitly **validates** it by calling `Cezam Validate` (`POST /api/distributor/cezam/validate`). This lets the POS make sure the cash has actually been collected before the Merchant account is credited.

- The validation request must be sent within **MAX_DEFERRED_DEPOSIT_DELAY** seconds after the voucher creation date (delay configured per Distributor by KAYROS, default **60s**). After that delay the request is rejected with code `24` and the deposit is never made.
- The voucher referenced by `vc_req_id` must belong to the requesting `distributor_id`, must be attached to the `pos_id` sent in the request, and must be **unused** (balance still equal to its value).
- The `test` flag of the request must match the `Test` attribute of the referenced voucher.
- When the deposit is accepted by the Merchant, the response returns `status = 0` with the deposited `amount`, `currency` and `customer_id`.

Distributors that are **not** configured in deferred deposit mode do not have to call this endpoint: the deposit is processed automatically by CASHlib after the standard delay.

The corresponding sequence diagram (*Predeposit - Deposit*) is available here: [CLICK HERE](#)

Point Of Sale transmission

Points of sale must be transmitted to CASHlib as a **CSV file**. A reference template is available here: [POINT_OF_SALE_TEMPLATE.xlsx](#). The XLSX is provided for editing convenience and **must be saved as CSV** before being sent.

Please follow the template exactly (same columns, same order, same header names). Doing so makes the onboarding process much faster on our side: no specific configuration is required and your file is processed with the default mapping out of the box. Sending the file in another structure forces us to set up a custom column mapping for your account before each import, which adds delay and risk of mismatch.

The expected columns in the template are:

COLUMN	REQUIRED	DESCRIPTION
Store id	Yes	POS identifier. Corresponds to pos_id used in all other distributor endpoints (Voucher_Creation, Voucher_Cancellation, Voucher_Enquiry, ...). Max 16 alphanumeric characters.
Store type	No	Physical or Online . Defaults to Physical when the column is absent or the cell is empty.
Store name	No	Commercial name of the store (max 255 characters).
Store contact	No	Contact name at the store (max 255 characters).
Store address	No	Street address (max 255 characters).
Store city	No	City (max 255 characters).
Store zipcode	No	Postal code (max 255 characters).
Store country	No	Country code (ISO 3166-1 alpha-3, see <i>Resource information</i>).
Store phone number	No	Phone number (max 255 characters).
Latitude	No	Decimal latitude between -90 and 90 (e.g. 48.858353).
Longitude	No	Decimal longitude between -180 and 180 (e.g. 2.294464).

The encoding is auto-detected (UTF-8 recommended). The default field separator is ; but , is also supported. The first row is treated as a header.

Error Codes

The CASHlib API attempts to return appropriate http status codes for every request.

In addition to HTTP error code, the CASHlib API contains functional error codes and messages. For example:

- HTTP Status Code: 400 Bad Request
- Response content: { "error_message" : "This voucher is not a test voucher.", "status" : 42 }

HTTP Status Code :

CODES	TEXT	DESCRIPTION
200	OK	Success
400	BAD REQUEST	Wrong Parameters
403	FORBIDDEN	Authentication Failed
404	NOT FOUND	The page / endpoint doesn't exist
500	INTERNAL SERVER ERROR	Technical Error

Codes :

CODES	TEXT	DESCRIPTION
11	Your account has been suspended.	Corresponding to 403 error. distributor_id does exist but is not active
12	Could not authenticate you.	Corresponding to 403 error. Your API Key is missing or your API is not linked to the distributor ID.
13	Missing required parameter.	Corresponding to 400 error.
14	Invalid pos_id.	Corresponding to 400 error. pos_id does not exist for this Distributor_ID
15	pos_id is not active.	Corresponding to 400 error. pos_id does exist but is not active
16	Duplicate request_id.	Corresponding to 400 error. request_id parameter is already linked to this distributor.
17	Incorrect format parameter	Corresponding to 400 error.
21	The requested value is under the minimum value.	Corresponding to 400 error. Minimum value for distributor_id
22	The requested value is under the maximum value.	Corresponding to 400 error. Maximum value for distributor_id
23	The total value during current quarter of an hour exceeds the maximum value	Corresponding to 400 error.
24	The number of vouchers with the same value during current quarter of an hour exceeds the maximum number.	Corresponding to 400 error.
25	No voucher settings for this country	Corresponding to 400 error. There is no EAN Code for this country.

CODES	TEXT	DESCRIPTION
26	Invalid brand id.	Invalid brand_id
27	The total value of voucher during current day exceeds the maximum value	Corresponding to 400 error.
28	The total value of voucher for unknown point of sale exceeds the maximum value	Corresponding to 400 error.
29	Invalid currency	Corresponding to 400 error. The voucher currency is different than distributor currency
31	Invalid request_id	Corresponding to 400 error. request_id does not exist for this distributor_id.
32	This voucher is not a test voucher.	Corresponding to 400 error. If Test = Y then only test voucher can be cancelled.
33	The voucher cannot be cancelled because the timeframe for submitting cancellation request has elapsed..	Corresponding to 400 error.
34	The voucher has been already cancelled	Corresponding to 400 error.
37	Error when call Sesame Deposit.	Corresponding to 400 error. Error during call direct deposit (Only for Sesame Winamax)
41	The voucher creation request does not exist	Corresponding to 400 error. Request_id_enquiry does not exist or is not linked to the distributor_id.
42	This voucher is not a test voucher	Corresponding to 400 error. If Test = Y then only test test voucher can be enquired.

CASHlib Direct (CEZAM) Codes :

For **Cezam Deposit** , **Cezam Cancel** and **Cezam Status** , codes **11 to 42** listed above apply identically, the word *voucher* being replaced by *deposit* in the messages. The following codes are specific to CASHlib Direct:

CODES	TEXT	DESCRIPTION
36	The deposit cannot be cancelled	Corresponding to 400 error. Bad transaction status
52	Consumer is inhibited.	Corresponding to 400 error. When customer_id is inhibited by Cashlib Administrator
71	Call to merchant deposit Error	Corresponding to 400 error. The call to credit the account was refused by the merchant
72	Merchant EAN not found	Corresponding to 400 error. No merchant is associated with the customer_id

CODES	TEXT	DESCRIPTION
73	Call to merchant Technical Error	Corresponding to 400 error. The call to credit the account failed
74	Merchant Bad configuration	Corresponding to 400 error. We cannot credit the account due to incorrect merchant configuration
77	Merchant Bad configuration	Corresponding to 400 error. We cannot cancel the transaction on the merchant side

Deposit Validation Codes :

> **Warning:** `Cezam Validate` (`POST /api/distributor/cezam/validate`) uses its **own** set of functional codes. Codes 20 to 27 do **not** have the same meaning as in the general table above.

CODES	TEXT	DESCRIPTION
12	Could not authenticate you.	Corresponding to 403 error. Your API Key is missing or is not linked to the distributor ID.
13	Missing required parameter.	Corresponding to 400 error.
14	Invalid pos_id.	Corresponding to 400 error. The pos_id sent is not the one attached to the referenced voucher.
20	Deposit rejected by Merchant	Corresponding to 400 error. The Merchant refused to credit the customer's account.
21	Incorrect vc_req_id	Corresponding to 400 error. vc_req_id does not exist or is not linked to the distributor_id.
24	Deposit not in allowed timeframe	Corresponding to 400 error. MAX_DEFERRED_DEPOSIT_DELAY has elapsed since the voucher creation.
25	Test deposit but non test voucher	Corresponding to 400 error. test = 'Y' while the referenced voucher has no 'Test' attribute.
26	Non test deposit with test voucher	Corresponding to 400 error. test = 'N' while the referenced voucher has the 'Test' attribute.
27	The voucher has been already used.	Corresponding to 400 error. The balance of the referenced voucher is no longer equal to its value.

Changelog

Version 1.2.0

- Add session *CASHlib Direct (CEZAM)*: the CASHlib Direct distributor interface (`Cezam Deposit` , `Cezam Cancel` , `Cezam Status`) is now described in this document, in a dedicated section. The standalone CEZAM distributor document is superseded.
- **Added `Cezam Validate`** (`POST /api/distributor/cezam/validate`): confirm the deposit of a voucher created with a customer's ID, for Distributors configured in *deferred deposit* mode. The validation must be sent within `MAX_DEFERRED_DEPOSIT_DELAY` seconds after the voucher creation (default 60s), on the same `pos_id` , with a matching `test` flag and while the voucher is still unused. This endpoint uses its own set of functional codes (see *Deposit Validation Codes*).
- Document the CASHlib Direct specific error codes (36, 52, 71 to 77).

Version 1.1.0

- **Added `Voucher_Cancellation_Batch`** (`POST /api/distributor/voucher_cancel_batch`): cancel (void) several vouchers in a single request by providing a list of `request_id` together with the `distributor_id` . A voucher is voided only when it belongs to the requesting distributor and is still within a **fixed cancellation delay of 14 days** after its creation date (in addition to the usual checks: voucher exists, not a test voucher, active/deactivated, same currency, not already used). Each voucher is reported individually in a `results` array (`succeeded` / `failed` with a `reason`); the whole batch is processed atomically.
- Unlike `Voucher_Cancellation` , this endpoint **also allows cancelling vouchers that have already been invoiced**. In that case a **credit note** is generated automatically when the periodic invoicing process runs.
- Add session *Point Of Sale*.

Voucher

About Voucher management

Voucher Creation

POST`/api/distributor/voucher_creation`

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID	required - max 64 chars - example: 12345678901234567890
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS	required - example: 1
pos_id	string	Defined by Distributor	required - max 16 chars - example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	required - example: 1000
currency	string	Currency iso3	required - max 3 chars - example: EUR
country_of_purchase	string	Country iso3	required - max 3 chars - example: FRA
crosscountry	string	Y for crosscountry voucher Else N	required - max 1 chars - enum: Y, N - example: Y
brand_id	integer	0 for non-branded voucher	example: 0

FIELD	TYPE	DESCRIPTION	RULES
name	string	Consumer's name	required - max 255 chars - example: Doe
firstname	string	Consumer's firstname	required - max 255 chars - example: John
birthdate	string	Consumer's birthdate (yyyy-mm-dd)	required - example: 1970-12-31
email	string		required - max 255 chars - example: test@test.com
session_id	string	Session Id (Use if a payment has been made from Cashlib Online)	example: 550e8400-e29b-41d4-a716-446655440000
test	string	'Y' for Test environment Else 'N' or no attributes. If Test parameter is set to 'Y' then a voucher is created with 'Test' attribute.	required - enum: Y, N - example: N

```
{
  "request_id": "12345678901234567890",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "pos_id": "1234567890123456",
  "value": 1000,
  "currency": "EUR",
  "country_of_purchase": "FRA",
  "crosscountry": "Y",
  "brand_id": 0,
  "name": "Doe",
  "firstname": "John",
  "birthdate": "1970-12-31",
  "email": "test@test.com",
  "session_id": "550e8400-e29b-41d4-a716-446655440000",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000-000000000000000000

FIELD	TYPE	DESCRIPTION	RULES
reply_date	string	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's request	example: 12345678901234567890
status	integer	Status 0 = SUCCESS	example: 0
test	string	'Y' for voucher with 'Test' attribute	example: N
serial_number	string	Voucher Serial Number	example: 000000000
code	string	16 digits	example: 9999999999999999
creation_date	string		example: 2050-12-31 23:59:59
expiry_date	string		example: 2050-12-31 23:59:59
distributor_id	string	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
price	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
currency	string	Currency iso3	example: EUR
country_of_purchase	string	Country iso3	example: FRA
crosscountry	string	Y for crosscountry voucher Else N	enum: Y, N - example: Y
brand_id	integer	0 for non-branded voucher	example: 0
ean_code	string	13 digits (predefined by KAYROS)	example: 0602561669803
communication_text	string		example: Voucher creation success
400 - bad request			application/json
FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13

FIELD	TYPE	DESCRIPTION	RULES
error_message	string	Error Message	example: value ERROR: This value should not be blank.

Voucher Cancel

POST /api/distributor/voucher_cancel

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID	required - max 64 chars - example: 9876543210987654321
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS	required - example: 1
request_id_cancel	string	Distributor's Request ID to be cancelled	max 64 chars - example: 1234567890123456789 0
pos_id	string	Defined by Distributor the same us for the Distributor's Request	required - max 16 chars
test	string	'Y' for Test voucher. If 'Test' parameter is set to 'Y' then only a voucher with 'Test' attribute can be cancelled.	required - enum: Y, N - example: N

```
{
  "request_id": "9876543210987654321",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "request_id_cancel": "12345678901234567890",
  "pos_id": "string",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000- 000000000000000000
reply_date	string<date-time>	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's Cancel request	example: 1234567890123456789 0
status	integer	Status 0 = SUCCESS	example: 0
test	string	'Y' for voucher with 'Test' attribute	example: N
distributor_id	integer	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
request_id_cancel	string		example: 9876543210987654321

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13
error_message	string	Error Message	example: Error voucher already used.

Voucher Cancel Batch

POST

/api/distributor/voucher_cancel_batch

Cancel (void) several vouchers in a single request by providing a list of `request_id`. A voucher is voided only when it belongs to the requesting distributor and is still within the fixed cancellation delay of 14 days after its creation. Vouchers already invoiced can also be cancelled this way; a credit note is then generated automatically by the periodic invoicing process. Each voucher is reported individually in the `results` array. The whole batch is processed atomically.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
distributor_id	integer	Defined by KAYROS. The vouchers must belong to this distributor.	required - example: 1
request_ids	string[]	List of Distributor's Request ID of the vouchers to cancel (void).	required - example: ["9876543210987654321","12345678901234567890"]

```
{
  "distributor_id": 1,
  "request_ids": [
    "9876543210987654321",
    "12345678901234567890"
  ]
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
distributor_id	integer	Distributor ID as sent in Distributor's request	example: 1
reply_date	string<date-time>	Reply date	example: 2023-12-31 23:59:59

FIELD	TYPE	DESCRIPTION	RULES
nb_success	integer	Number of vouchers successfully voided	example: 2
nb_failed	integer	Number of vouchers that could not be voided	example: 1
results	object[]	Per-voucher result	
results.request_id	string		example: 9876543210987654321
results.status	string	succeeded or failed	enum: succeeded, failed - example: succeeded
results.reason	string	Reason of the failure (empty when succeeded). Possible values: Invalid request_id, This is a test voucher, Voucher already cancelled, Voucher not active/deactivated, The currency of this voucher is different from the distributor currency, Cancellation delay expired, Voucher already used, Duplicate request_id in batch.	example:

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13
error_message	string	Error Message	example: Error voucher already used.

Voucher Enquiry

POST

/api/distributor/voucher_enquiry

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
-------	------	-------------	-------

request_id	string	Distributor's Request ID	required - max 64 chars - example: 12345678901234567890
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS SA	required - example: 1
request_id_enquiry	string	Distributor's Request ID to be check	required - max 64 chars - example: 12345678901234567890
pos_id	string	Defined by Distributor the same us for the Distributor's Request	required - max 16 chars
test	string	'Y' for Test voucher. If 'Test' parameter is set to 'Y' then only a cezam deposit with 'Test' attribute can be check.	required - enum: Y, N - example: N

```
{
  "request_id": "12345678901234567890",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "request_id_enquiry": "12345678901234567890",
  "pos_id": "string",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000- 000000000000000000
reply_date	string<date-time>	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's request	example: 12345678901234567890
status	integer	0 for success or Error Number	example: 0
test	string	'Y' for voucher with 'Test' attribute	example: N

FIELD	TYPE	DESCRIPTION	RULES
serial_number	string	Voucher Serial Number	example: 000000000
code	string	16 digits	example: 9999999999999999
creation_date	string<date-time>		example: 2050-12-31 23:59:59
expiry_date	string<date-time>		example: 2050-12-31 23:59:59
distributor_id	string	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
price	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
currency	string	Currency iso3	example: EUR
country_of_purchase	string	Country iso3	example: FRA
crosscountry	string	Y for crosscountry voucher Else N	enum: Y, N - example: Y
brand_id	integer	0 for non-branded voucher	example: 0
ean_code	string	13 digits (predefined by KAYROS SA)	example: 0602561669803
communication_text	string		example: Le dépôt sur votre compte a été réussi. Le ticket sert de reçu.
voucher_status	integer	Status of the voucher : Active Void Reimbursed Deactivated	example: Active

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 14
error_message	string	Error Message	example: pos_id invalid.

Voucher Information

GET

/api/distributor/voucher

This endpoint returns the details of the vouchers emitted by a distributor between two dates. The interval period must be inferior or equal to 31 days.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	
distributorId	header	string	
from required	query	string	Creation date, start
to required	query	string	Creation date, end
csv required	query	string	If you want the result returned as .csv format.
brandId	query	integer	Brand Id

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
result	VoucherInformationObject[]		
result.creationDate	string<date-time>	Creation date	example: 2050-12-31 23:59:59
result.requestId	string	Voucher creation requestId	example: 12345678901234567890
result.distributor	string	Distributor's name	example: distributor 1
result.posIdentifier	string	Point of sale identifier	example: 1234567890123456
result.brandName	string	Brand name	example: EMPCorp BRAND
result.voucherSn	string	Vouchers' serial number	example: 000000000

FIELD	TYPE	DESCRIPTION	RULES
result.balance	integer	Balance In Cents (ex 1000 for 10€)	example: 1000
result.value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
result.currency	string	Currency iso3	example: EUR
result.expiry_date	string<date-time>		example: 2050-12-31 23:59:59
result.crosscountry	string	Y for crosscountry voucher Else N	max 1 chars - enum: Y, N - example: Y
result.status	string	Vouchers' status ACT (Active) VOI (Cancelled) REI (Reimbursed) DEA (Deactivated)	example: ACT
result.test	bool	true for Test Voucher .	example:

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 12
error_message	string	Error Message	example: Could not authenticate you.

Invoice

About Invoice Information

Invoice Information

GET

/api/distributor/invoice

This endpoint returns the details of the invoices emitted between two dates. The interval period must be inferior or equal to 31 days.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	
distributorId	header	string	
from required	query	string	Creation date, start
to required	query	string	Creation date, end

RESPONSES

200 - successful operation			application/json
FIELD	TYPE	DESCRIPTION	RULES
result	InvoiceObject[]		
result.invoiceSn	integer	Serial number	example: 321
result.issuanceDate	string<date>	Issuance Date	example: 2020-10-14
result.startDate	string<date>	Invoice's start date	example: 2020-07-08
result.endDate	string<date>	Invoice's end date	example: 2020-07-08
result.vouchers	VoucherObject[]		
result.vouchers.voucher Sn	string	Serial number	example: 000000000

FIELD	TYPE	DESCRIPTION	RULES
result.vouchers.requestId	string	Voucher creation requestId	example: 12345678901234567890
result.vouchers.creationDate	string<date-time>	Creation date	example: 2050-12-31 23:59:59
result.vouchers.value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
result.vouchers.currency	string	Currency iso3	example: EUR
result.vouchers.brandId	integer	0 for non-branded voucher	example: 0
result.vouchers.cancelled	boolean	Cancelled status	example:
result.vouchers.ean	string	13 digits (predefined by KAYROS)	example: 0602561669803

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 12
error_message	string	Error Message	example: Could not authenticate you.

Invoice CSV

GET

/api/distributor/invoice/csv

This endpoint returns the details of the invoices emitted between two dates in CSV format. The interval period must be inferior or equal to 31 days.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	
distributorId	header	string	
from required	query	string	Creation date, start

NAME	LOCATION	TYPE	DESCRIPTION
to required	query	string	Creation date, end

RESPONSES

200 - successful operation

text/csv

```
invoice_sn;invoice_issuance_date;invoice_start_date;invoice_end_date;voucher_request_id;voucher_sn;voucher_creation_date;voucher_value;voucher_currency;voucher_brand;voucher_cancelled;voucher_ean;
```

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 12
error_message	string	Error Message	example: Could not authenticate you.

Credit Note Information

GET

/api/distributor/credit

This endpoint returns the details of the credit notes emitted between two dates. The interval period must be inferior or equal to 31 days.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	
distributorId	header	string	
from required	query	string	Creation date, start
to required	query	string	Creation date, end

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
result	CreditNoteObject[]		
result.creditSn	integer	Serial number	example: 321
result.issuanceDate	string<date>	Issuance Date	example: 2020-10-14
result.vouchers	VoucherCreditNoteObject[]		
result.vouchers.voucherSn	string	Serial number	example: 000000000
result.vouchers.requestId	string	Voucher creation requestId	example: 12345678901234567890
result.vouchers.creationDate	string<date-time>	Creation date	example: 2050-12-31 23:59:59
result.vouchers.value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
result.vouchers.currency	string	Currency iso3	example: EUR
result.vouchers.brandId	integer	0 for non-branded voucher	example: 0
result.vouchers.cancelled	boolean	Cancelled status	example:
result.vouchers.ean	string	13 digits (predefined by KAYROS)	example: 0602561669803
result.vouchers.reimbursementDate	string<date-time>	Reimbursement date	example: 2050-12-31 23:59:59

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 12
error_message	string	Error Message	example: Could not authenticate you.

Credit Note CSV

GET

/api/distributor/credit/csv

This endpoint returns the details of the credit note emitted between two dates in CSV format. The interval period must be inferior or equal to 31 days.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	
distributorId	header	string	
from required	query	string	Creation date, start
to required	query	string	Creation date, end

RESPONSES

200 - successful operation

text/csv

```
credit_sn; credit_issuance_date; voucher_request_id; voucher_sn; voucher_creation_date; voucher_value; voucher_currency; voucher_brand; voucher_cancelled; voucher_ean; voucher_reimbursement_date;
```

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 12
error_message	string	Error Message	example: Could not authenticate you.

CASHlib Direct

About CASHlib Direct (CEZAM) deposit management: direct deposit on the customer's Merchant account at a Point Of Sale. See the *CASHlib Direct (CEZAM)* section above for the flow description and the specific error codes.

Cezam Deposit

POST

`/api/distributor/cezam`

Create a CASHlib Direct deposit: a voucher is created for the `customer_id` scanned at the POS and a deposit request is sent to the Merchant. See the *CASHlib Direct (CEZAM)* section for the complete flow.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID	required - max 64 chars - example: 12345678901234567890
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS	required - example: 1
pos_id	string	Defined by Distributor	required - max 16 chars - example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	required - example: 1000
currency	string	Currency iso3	required - max 3 chars - example: EUR
country_of_purchase	string	Country iso3	required - max 3 chars - example: FRA

FIELD	TYPE	DESCRIPTION	RULES
crosscountry	string	Y for crosscountry deposit Else N	required - max 1 chars - enum: Y, N - example: Y
brand_id	integer	0 for non-branded deposit	required - example: 0
customer_id	string	Customer Id from barcode	required - max 13 chars - example: 1234567890000
test	string	'Y' for Test environment Else 'N' or no attributes. If Test parameter is set to 'Y' then a cezam deposit is created with 'Test' attribute.	required - enum: Y, N - example: N

```
{
  "request_id": "12345678901234567890",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "pos_id": "1234567890123456",
  "value": 1000,
  "currency": "EUR",
  "country_of_purchase": "FRA",
  "crosscountry": "Y",
  "brand_id": 0,
  "customer_id": "1234567890000",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000-000000000000000000
reply_date	string	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's request	example: 12345678901234567890
status	integer	0 for success or Error Number	example: 0
test	string	'Y' for voucher with 'Test' attribute	example: N
serial_number	string	Voucher Serial Number	example: 000000000

FIELD	TYPE	DESCRIPTION	RULES
code	string	16 digits	example: 9999999999999999
creation_date	string		example: 2050-12-31 23:59:59
expiry_date	string		example: 2050-12-31 23:59:59
distributor_id	string	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
price	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
currency	string	Currency iso3	example: EUR
country_of_purchase	string	Country iso3	example: FRA
crosscountry	string	Y for crosscountry voucher Else N	enum: Y, N - example: Y
brand_id	integer	0 for non-branded voucher	example: 0
ean_code	string	13 digits (predefined by KAYROS)	example: 0602561669803
customer_id	string		example: 1234567890000

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13
error_message	string	Error Message	example: value ERROR: This value should not be blank.

Cezam Validate

POST

/api/distributor/cezam/validate

Confirm (validate) the deposit of a voucher previously created with a customer's ID, for Distributors configured in **deferred deposit** mode. Until this request is received, the Merchant account is not credited: the voucher creation only performed a pre-deposit and the transaction is left pending.

The request is accepted only when all of the following conditions are met:

- the voucher referenced by `vc_req_id` exists and belongs to `distributor_id` (else code `21`);
- the voucher is attached to the `pos_id` sent in the request (else code `14`);
- the `test` flag matches the `Test` attribute of the voucher (else code `25` or `26`);
- the voucher is still unused, ie its balance is equal to its value (else code `27`);
- the request is sent within MAX_DEFERRED_DEPOSIT_DELAY seconds after the voucher creation

(per-Distributor delay, default 60s - else code `24`).

The deposit is then requested from the Merchant; a refusal is reported with code `20` .

This endpoint uses its own set of functional codes - see *Deposit Validation Codes* in the *Error Codes* section.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID of the validation request	required - max 64 chars - example: 9876543210987654321
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS. The voucher to be deposited must belong to this distributor.	required - example: 1
pos_id	string	Defined by Distributor. Must be the pos_id used for the voucher creation request.	required - max 16 chars - example: 1234567890123456
vc_req_id	string	Distributor's Request ID of the voucher creation request whose deposit has to be validated. The legacy name <code>request_id_deposit</code> is also accepted; when both are sent, <code>vc_req_id</code> is used. Send one of the two only.	required - max 64 chars - example: 1234567890123456789 0

FIELD	TYPE	DESCRIPTION	RULES
request_id_deposit	string	Deprecated alias of <code>vc_req_id</code> , kept for backward compatibility.	max 64 chars - example: 12345678901234567890
test	string	'Y' for Test voucher. The flag must match the 'Test' attribute of the voucher referenced by vc_req_id.	required - enum: Y, N - example: N

```
{
  "request_id": "9876543210987654321",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "pos_id": "1234567890123456",
  "vc_req_id": "12345678901234567890",
  "request_id_deposit": "12345678901234567890",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000- 000000000000000000
reply_date	string<date-time>	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID of the voucher creation request whose deposit has been validated	example: 12345678901234567890
status	integer	Status 0 = SUCCESS	example: 0
test	string	'Y' for voucher with 'Test' attribute	example: N
customer_id	string	Customer Id of the credited Merchant account	example: 1234567890000
serial_number	string	Voucher Serial Number	example: 000000000
amount	integer	Deposited amount In Cents (ex 1000 for 10€)	example: 1000
currency	string	Currency iso3	example: EUR

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code (see <i>Deposit Validation Codes</i>)	example: 24
error_message	string	Error Message	example: Deposit not in allowed timeframe

Cezam Cancel

POST /api/distributor/cezam/cancel

Cancel a CASHlib Direct deposit within the predefined time after its creation (5 minutes).

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID	required - max 64 chars - example: 12345678901234567890
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS	required - example: 1
request_id_cancel	string	Distributor's Request ID to be cancelled	required - max 64 chars - example: 12345678901234567890
pos_id	string	Defined by Distributor the same as for the Distributor's Request	required - max 16 chars
test	string	'Y' for Test voucher. If 'Test' parameter is set to 'Y' then only a cezam deposit with 'Test' attribute can be cancelled.	required - enum: Y, N - example: N

```
{
  "request_id": "12345678901234567890",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "request_id_cancel": "12345678901234567890",
  "pos_id": "string",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000- 000000000000000000
reply_date	string	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's Cancel request	example: 1234567890123456789 0
status	integer	Status 0 = SUCCESS	example: 0
test	string	'Y' for cezam deposit with 'Test' attribute	example: N
distributor_id	integer	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
request_id_cancel	string		example: 9876543210987654321

400 - bad request

application/json

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13
error_message	string	Error Message	example: Error voucher already used.

Cezam Status

POST

/api/distributor/cezam/status

Check the information returned for a CASHlib Direct deposit.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
request_id	string	Distributor's Request ID	required - max 64 chars - example: 12345678901234567890
request_date	string<date-time>	Distributor's Request Date	required - example: 2023-12-31 23:59:59
distributor_id	integer	Defined by KAYROS	required - example: 1
request_id_status	string	Distributor's Request ID to be check	required - max 64 chars - example: 12345678901234567890
pos_id	string	Defined by Distributor the same us for the Distributor's Request	required - max 16 chars
test	string	'Y' for Test voucher. If 'Test' parameter is set to 'Y' then only a cezam deposit with 'Test' attribute can be check.	required - enum: Y, N - example: N

```
{
  "request_id": "12345678901234567890",
  "request_date": "2023-12-31 23:59:59",
  "distributor_id": 1,
  "request_id_status": "12345678901234567890",
  "pos_id": "string",
  "test": "N"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
mv_tid	string	CASHlib transaction ID. MV_TID is a unique Transaction ID returned by CASHlib.	example: 00000000000000- 000000000000000000
reply_date	string	Reply date	example: 2023-12-31 23:59:59
request_id	string	Request ID as sent in Distributor's request	example: 1234567890123456789 0
status	integer	0 for success or Error Number	example: 0
deposit_status	string	Status of the deposit : SUCCESS VOID FAILURE	example: Success
test	string	'Y' for voucher with 'Test' attribute	example: N
serial_number	string	Voucher Serial Number	example: 000000000
code	string	16 digits	example: 9999999999999999
creation_date	string		example: 2050-12-31 23:59:59
expiry_date	string		example: 2050-12-31 23:59:59
distributor_id	string	Distributor ID as sent in Distributor's request	example: 1
pos_id	string	Pos ID as sent in Distributor's request	example: 1234567890123456
value	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
price	integer	Amount In Cents (ex 1000 for 10€)	example: 1000
currency	string	Currency iso3	example: EUR
country_of_purchase	string	Country iso3	example: FRA
crosscountry	string	Y for crosscountry voucher Else N	enum: Y, N - example: Y
brand_id	integer	0 for non-branded voucher	example: 0
ean_code	string	13 digits (predefined by KAYROS)	example: 0602561669803

FIELD	TYPE	DESCRIPTION	RULES
customer_id	string		example: 1234567890000

400 - bad request			application/json
--------------------------	--	--	------------------

FIELD	TYPE	DESCRIPTION	RULES
status	string	Error Code	example: 13
error_message	string	Error Message	example: pos_id : ERROR: This value is too long. It should have 16 characters or less.

Endpoints to implement (Optional)

Endpoints to be exposed on the Distributor side and called by CASHlib

Kyc Request

POST

/endpoint/kyc/example

This endpoint enables cashlib to query the online distributor for vouchers issued and to retrieve the KYC associated with the voucher.

PARAMETERS

NAME	LOCATION	TYPE	DESCRIPTION
apikey	header	string	

REQUEST BODY

APPLICATION/JSON

FIELD	TYPE	DESCRIPTION	RULES
name	string	Consumer's name	required - max 255 chars - example: Doe
firstname	string	Consumer's firstname	required - max 255 chars - example: John
birthdate	string	Consumer's birthdate (yyyy-mm-dd)	required - example: 1970-12-31

```
{
  "name": "Doe",
  "firstname": "John",
  "birthdate": "1970-12-31"
}
```

RESPONSES

200 - successful operation

application/json

FIELD	TYPE	DESCRIPTION	RULES
-------	------	-------------	-------

id_recto	string	ID Recto Base64 (Image or PDF)	example: iVBORw0KGgoAAAANSU hEUgAAAAgAAAAIAQMA AAD+wSzIAAAABIBMVE X///+v7+jQ3Y5AAAADk IEQVQI12P4AIX8EAgaLg AD/aNpbtEAAAAASUVO RK5CYII
id_verso	string	ID Verso Base64 (Image or PDF)	example: iVBORw0KGgoAAAANSU hEUgAAAAgAAAAIAQMA AAD+wSzIAAAABIBMVE X///+v7+jQ3Y5AAAADk IEQVQI12P4AIX8EAgaLg AD/aNpbtEAAAAASUVO RK5CYII
proof_of_address	string	POA Base64 (Image or PDF)	example: iVBORw0KGgoAAAANSU hEUgAAAAgAAAAIAQMA AAD+wSzIAAAABIBMVE X///+v7+jQ3Y5AAAADk IEQVQI12P4AIX8EAgaLg AD/aNpbtEAAAAASUVO RK5CYII

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