



ONE API Integration Guide

ADVANCED integration

V. 2.5

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1. Document history

Date	Version	Author	List Updates	Ref. Paragraph
19/01/2015	1.0	DOCOMO Digital	First version of the document	0
20/03/2015	1.1	DOCOMO Digital	Added parameters mainErrorCode, detailedErrorCode, errorDescription in intermediate response	8.1
07/04/2015	1.2	DOCOMO Digital	Added "imsi" optional input parameter	5.1.2 6.1.2 6.2.2 6.4.2 7.1.2
			Added "channel" optional input parameter	5.1.2 6.1.2 6.2.2 6.3.2 6.4.2 7.1.2
			Added "maskedMsisdn" property in userId object	4.3 5.1.4
			Errata corrige: amountCharged is not a mandatory response parameter	5.1.4 6.1.4 6.3.4
15/06/2015	1.3	DOCOMO Digital	Added "userId" and "telco" on subscribe/getAll response	6.2.4
			Added "price", "currencyCode" on refund	7.1.2
			Added new status "PARTIALLY_REFUND" to refund response	7.1.4
08/03/2016	1.4	DOCOMO Digital	Added StarHub Telco for Singapore	
24/03/2016	1.5	DOCOMO Digital	Added "singlePurchase/identify" and "singlePurchase/purchaseFromToken" flows	5.2, 5.3
			Added optional parameters msisdn and telcoCode in purchase, identify, subscribe and getAll requests	5.1 5.2 6.1 6.2
			Added optional parameter "customParams" in all API requests.	5.1.2 5.2.2 5.3.2 6.1.2 6.2.2 6.3.2 6.4.2 7.1.2
05/07/2016	1.6	DOCOMO Digital	Updated interface for sendSMS API. Old API format will be kept for backwards compatibility.	12.1
26/09/2016	1.7	DOCOMO Digital	Added new renew API for delegated subscriptions	6.5

			Added new userId change and userId deactivation asynchronous notifications	9.2.10, 9.2.11
			Added new sendSMSTrusted API	12.2
			Removed Appendixes, now available in a separate document (ONE API coverage)	
20/02/2017	1.8	DOCOMO Digital	Added token/check API	13.1
			Added user/profile and user/extendedProfileFromToken APIs	14.1, 14.2
			Added new common data types: InfoToDisplay, Profile, ExtendedProfile, Spen Limit	4.3.7, 4.3.8, 4.3.9, 4.3.10
			Added optional parameters "language" and "messageParams"	5.1.2, 5.2.2, 5.3.2, 6.1.2, 6.2.2, 6.3.2, 6.4.2, 6.5.2, 7.1.2, 8.1
			Added error codes ERR_0007/ERR_9995, ERR_0007/ERR_9994 and ERR_0006/ERR_9920	19
			Added optional response parameter infoToDisplay to final responses	5.1.4, 5.2.4, 5.3.4, 6.1.4, 6.2.4, 6.3.4, 6.4.4, 7.1.4
04/04/2017	1.9	DOCOMO Digital	Added new properties in Product (subFrequencyInDays) and Promo (ratePlan, type, iterations, periods) objects	4.3.3, 4.3.4
12/05/2017	2.0	DOCOMO Digital	Added new intermediate response EMBED_JS	8.8
			Added new credit API	15
			Added new token invalidate API	13.2
31/07/2017	2.1	DOCOMO Digital	Added new parameters requestHeaders and requestBody in resume request after a REDIRECT and EMBED_JS action.	8.3.3 8.8.3
			Added new optional input parameters paymentMethod, alias and customerId in purchase, identify, subscribe and getAll flows.	5.1.2 5.2.2 6.1.2 6.2.2
19/09/2017	2.2	DOCOMO Digital	Added new optional parameter "alias" in sendSMSTrusted request.	12.2
			Clarified format and description of postParams in REDIRECT response	8.3.2
			Added new optional parameter "redirectionCharset" in REDIRECT intermediate response.	8.3.2
9/10/2017	2.3	DOCOMO Digital	Added link to download the public key to be used for digital signature validation of notifications.	9.1
28/08/2018	2.4	DOCOMO Digital	Added new parameter optinMode in OPTIN response	8.7.1, 8.7.2
02/05/2019	2.5	DOCOMO Digital	Added new error codes ERR_0552, ERR_0553	19
			Added new INTERMEDIATE Response ADD_PARAMETERS (password)	8.5.2

2. Introduction

DOCOMO Digital provides a global payment platform that enables Mobile Network Operator Billing in e-commerce / mobile commerce sites.

This step-by-step guide describes how to integrate DOCOMO Digital ADVANCED ONE API in your website, allowing one-off payments and subscriptions.

For the full list of price points available and countries and Operators coverage you should ask the last version of the “ONE API coverage” document to the DOCOMO Digital Business team.

In order to use these APIs, you have to obtain an authorization by the DOCOMO Digital Business team. APIs allow Merchants to fully personalize and host their purchase flow.

The service and the custom purchase flow must comply with local regulations, rules set by Operators and DOCOMO Digital guidelines.

3. Merchant set-up process

This section briefly goes through the administrative process of setting up a merchant.

To start selling digital goods, a new Merchant has to:

1. Register through the registration form on <http://cashlog.com/> website
2. Login to the Merchant private area, go to “My Account” page and fill in the necessary information (contact emails, IBAN...)
3. Go to “My shop” page and add one or more websites with all related information
4. Require an approval for each website inserted. When approved, the Merchant can go online.

3.1. Registering as a Merchant

You can register as a Merchant from <http://cashlog.com/> website. Be ready to provide the following information:

- First Name
- Surname
- Email Address
- Password
- Country
- Telephone number
- Company name
- VAT Number
- Website

After completing the registration, you will be assigned:

- A merchant identification code
- A private area on <http://cashlog.com/> website, where you can receive real-time information on your transactions, download reports and perform administrative tasks.

3.2. Providing contact and bank information

Before starting to make real business you have to specify some contact and invoicing info. Please login to your private area on <http://cashlog.com/> and fill in the following fields in “My Account” page:

Merchant Contact info:

- Email CC Address
- Technical Support Telephone number
- Email technical support
- Email Finance Office

Bank transfer:

- Bank name and address
- Payable to
- Iban
- Country
- Swift

3.3. Configuring web sites

Having registered as a merchant, you need to provide information about the websites under your possession that you would like to integrate with the billing system.

For each site, you have to declare the following information:

- Site Name: name of the site
- URL: URL of the site
- Logo: optional logo/banner to be shown in the purchase experience. It should be a gif, png or jpeg image with a preferred size of 190x60 pixels. If this field is not set, no banner will be displayed. Note that this feature may not be available for all mobile operators.
- Billing countries: the list of countries where you would like to enable Operator billing for this site. In order to speed up the approval process, we suggest you to create one site for each billing country.
- Adult content: select “yes” only if the site provides explicit content (erotic / sexual), otherwise select “no”
- Are you interested in selling subscriptions through this site? Select yes if you plan to sell subscription services (recurrent payments)
- Asynchronous Notification URL: (not mandatory) if you fill in this field, DOCOMO Digital platform will call this URL to send asynchronous notifications. Asynchronous notifications are described in section 9.
- Customer care phone number: (not mandatory) if you have a customer care phone line, insert the phone number here

Each web site will be assigned a unique identification code.

3.4. Requesting website approval

Having registered your web sites on cashlog.com, you should contact DOCOMO Digital Business Team to start the website approval process.

Once the site is approved by DOCOMO Digital and by the relevant Mobile Network Operators, DOCOMO Digital Technical Team will enable payments through the platform.

4. General guidelines

4.1. API requests

DOCOMO Digital APIs are exposed as REST web services under the following base URL:

<https://api.cashlog.com/mpay-ws/v2/>

When calling any API method:

- The request method must be POST
- You must pass the following headers:

Content-Type: application/json

Accept: application/json

- You must authenticate each API call using HTTP Basic authentication. Consult the merchant portal (<http://www.cashlog.com/>) to get your username and set your password.
- Alternatively, you can skip basic authentication and use HTTPS client certificate authentication instead.
- The request body must contain the parameters in JSON encoded format. Assume for example that you need to pass the following parameters.

Param Name	Type	Value
exampleParameter1	String	"aStringValue"
exampleParameter2	Array of String	"stringValue1", "stringValue2"
exampleParameter3	Map of <String, String>	"key1" = "value1", "key2" = "value2"

The request body would be:

```
{
  "exampleParameter1": "aStringValue",
  "exampleParameter2": ["stringValue1","stringValue2"],
  "exampleParameter3": {"key1": "value1", "key2": "value2"}
}
```

4.2. API Responses

When parsing the API responses, you should check, first of all, the HTTP status. Malformed or unauthorized requests will result in HTTP errors.

HTTP Status		Meaning
200	Ok	The client request is syntactically and semantically correct.
400	Bad Request	The request is invalid. This covers, for example, JSON syntax errors, requests with invalid values for input parameters, requests without mandatory parameters.
401	Unauthorized	Basic authentication is missing or the supplied credentials are invalid.
403	Forbidden	The request, although syntactically valid, cannot be processed due to access control policies. Examples include: <ul style="list-style-type: none"> The credentials that you provided do not grant access to the requested resource or operation You are repeatedly issuing the same request in a short time frame.
404	Not found	The target resource does not exist
405	Method not allowed	The HTTP method used to send the request is not supported. In this case, ensure that the request uses POST method.
415	Unsupported media type	You issued the request in a format that is not supported by the server. In case of DOCOMO Digital API, make sure that you pass the correct Content-Type HTTP header in the request.
500	Internal server error	The request could not be processed due to internal errors in the DOCOMO Digital platform

The API response parameters will be serialized in JSON format. For instance the following response:

```
{
  "exampleParameter1": "aStringValue",
  "exampleParameter2": ["stringValue1", "stringValue2"],
  "exampleParameter3": {"key1": "value1", "key2": "value2"}
}
```

Will corresponds to the following response parameters:

Param Name	Type	Value
exampleParameter1	String	"aStringValue"

exampleParameter2	Array of String	"stringValue1", "stringValue2"
exampleParameter3	Map of <String, String>	"key1" = "value1", "key2" = "value2"

4.3. Common data types

4.3.1. Telco

The Telco object has the following properties:

Property	Type	Mandatory	Description
Code	String	Yes	Unique identifier of the Operator. Refer to the "ONE API coverage" document for the full list.
Name	String	Yes	Human readable Operator name. Refer to the "ONE API coverage" document for the full list.

4.3.2. UserId

The userId object has the following properties:

Property	Type	Mandatory	Description
msisdn	String	No	MSISDN in international format.
maskedMsisdn	String	No	MSISDN in international format, with some digits masked for privacy reasons.
alias	String	No	A telco-assigned alias that identifies the user during the purchase transaction.
userProfile	String	No	Billing profile of the user. Most Operators do not disclose this information. Can be: <ul style="list-style-type: none"> • prepaid • postpaid • corporate
customerId	String	No	Unique, anonymous identifier of the end-user. Most operators do not disclose this information.

4.3.3. Promo

The Promo object has the following properties:

Property	Type	Mandatory	Description
id	String	Yes	Unique identifier of the promotion
description	String	Yes	Human-readable descriptive text of the promotion.
telco	Telco	Yes	Target Telco for this promotion
userProfile	String	No	If not null, it means that the promotion applies only to users having this profile. Can be: <ul style="list-style-type: none"> • prepaid • postpaid • corporate

ratePlan	String	No	If not null, it means that the promotion applies only to users having this rate plan. If the promotion targets more than one rate plan, this field contains a comma separated list of rate plan names.
oneTime	Boolean	No	If true, the user can enjoy the promotion only for the first purchase of the product.
promoType	String	Yes	Type of promotion. Can be: <ul style="list-style-type: none"> • PERIOD: the price changes depending on the date of the renewal • ITERATION: the price changes depending on the number of renewals
iterations	Array of Promolteration	No	Mandatory if type is "ITERATION".
periods	Array of PromoPeriod	No	Mandatory if type is "PERIOD".

The Promolteration object has the following structure:

Property	Type	Mandatory	Description
price	String	Yes	Promotional price
iterationStart	Integer	Yes	The promotional price will be applied starting from this iteration. Iteration 0 is the one starting at subscription time, iteration 1 is the one starting at the first renewal, and so on.
iterationEnd	Integer	Yes	The promotional price will be applied up to this iteration.
duration	String	No	Duration of the iteration, i.e. the time between renewals. If null, it's the default for the subscription frequency (see Product object). It may be different in case of the promotion period is not a multiple of the duration of an iteration. Example: 3 weeks free for a monthly subscription. Format is <number><unit>, where unit can be: <ul style="list-style-type: none"> • D = Day • W = Week • M = Month • Q = Quarter • Y = Year

The PromoPeriod object has the following structure:

Property	Type	Mandatory	Description
price	String	Yes	Promotional price
periodStart	String	Yes	The promotional price will be applied starting from this date.
periodEnd	String	Yes	The promotional price will be applied up to this date.

4.3.4. Product

The Product object has the following properties:

Property	Type	Mandatory	Description
name	String	Yes	Product name
description	String	Yes	Product description
price	String	Yes	Product price. In case of subscription it's the price of one period.
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
isSubscription	Boolean	Yes	If true, the product is a subscription
subFrequency	String	No	Mandatory if isSubscription is true. Subscription renewal frequency: <ul style="list-style-type: none"> • D = Day • T = Every 3 days • W = Week • M = Month • Q = Quarter • Y = Year
subFrequencyInDays	Integer	No	Mandatory if isSubscription is true. Subscription renewal frequency in days.
subEndDate	String	No	Specify when a subscription should be automatically stopped. If it is null the subscription will not be stopped until an explicit request is made.

4.3.5. Merchant

The Merchant object has the following properties:

Property	Type	Mandatory	Description
name	String	Yes	Company name
website	String	Yes	Official website URL
customerCareNumber	String	Yes	Customer care phone number
customerCareEmail	String	Yes	Customer care email address

4.3.6. Site

The Site object has the following properties:

Property	Type	Mandatory	Description
name	String	Yes	Site name
url	String	Yes	Website URL
customerCareNumber	String	Yes	Customer care phone number

customerCareEmail	String	Yes	Customer care email address
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4.3.7. InfoToDisplay

The following parameters may be returned in the infoToDisplay map.

Property	Type	Mandatory	Description
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
promo	Promo	No	Promotion that will be applied to the purchase. It's one of the promotions passed in the "promold" input parameter. Refer to par. 4.3
availablePromos	Array of Promo	No	List of one or more promotions potentially applicable to the purchase. It's a subset of the promotions passed in the "promold" input parameter.
telco	Telco	Yes	Auto-detected user's Mobile Network Operator. Refer to par. 4.3
availableTelcos	Array of Telco	Yes	List of telco operators that support this payment transaction.
product	Product	Yes	Product information. Refer to par. 4.3
merchant	Merchant	Yes	Merchant information. Refer to par. 4.3
site	Site	Yes	Site information. Refer to par. 4.3

4.3.8. Profile

The Profile object has the following properties:

Property	Type	Mandatory	Description
status	String	No	Can be one of the following: <ul style="list-style-type: none"> • active: user has an active account with operator • inactive: the user's account has been deactivated from the operaator • invalid: MSISDN doesn't belong to operator. • blocked: user's accouns has been blocked by operator • stolen: user's account has been flagged as stolen by operator
accountType	String	No	Can be one of the following: <ul style="list-style-type: none"> • prepaid • postpaid
customerType	String	No	Can be one of the following: <ul style="list-style-type: none"> • corporate • private
ratePlan	String	No	Name of the user's reate plan
activationDate	String	No	Specify when the user successful completed an contract activation with the operator. Format is 'YYYY-MM-DD'.

eligibility	Boolean	No	Indicates whether the user is eligible to use carrier billing.
-------------	---------	----	--

4.3.9. ExtendedProfile

The Profile Extended object has the following properties:

Property	Type	Mandatory	Description
status	String	No	Can be one of the following: <ul style="list-style-type: none"> active: user has an active account with operator inactive: the user's account has been deactivated from the operator invalid: MSISDN doesn't belong to operator. blocked: user's accounts has been blocked by operator stolen: user's account has been flagged as stolen by operator
accountType	String	No	Can be one of the following: <ul style="list-style-type: none"> prepaid postpaid
customerType	String	No	Can be one of the following: <ul style="list-style-type: none"> corporate private
ratePlan	String	No	Name of the user's rate plan
activationDate	String	No	Specify when the user successfully completed a contract activation with the operator. Format is 'YYYY-MM-DD'.
eligibility	Boolean	No	Indicates whether the user is eligible to use carrier billing.
spendLimits	Array of SpendLimit	No	Amount of user spend limit. Refer to paragraph 4.3.9 for details
lastSpendLimitsErrorDate	Date	No	Indicates the last date User exceeded the spend limit for a period. Format is 'YYYY-MM-DD HH:mm:ss'.
lastBillingOkDate	Date	No	Indicates whether the last successful transaction associated with the account. Format is 'YYYY-MM-DD HH:mm:ss'.
billingOkCount	Number	No	Indicates the total number of successful billing or renewal for subscriptions
lastBillingErrorDate	Date	No	Indicates the last date an error occurred during the billing or renewal process

			Format is 'YYYY-MM-DD HH:mm:ss'.
billingErrorCount	Number	No	Indicates the number of error occurred during the billing or renewal process
lastCreditErrorDate	Date	No	last time a purchase or renew failed due to credit error (only for prepaid) Format is 'YYYY-MM-DD HH:mm:ss'.
operatorAverageFailedPurchases	Number	No	an estimation of the average percentage of failed purchases or renewals for the whole operator.
lastSuspensionDate	Date	No	Indicates last time the user was suspended. Format is 'YYYY-MM-DD HH:mm:ss'.
balance	Number	No	Indicates the account's current prepaid balance. It will be present only if the accountType is "prepaid"

4.3.10. Spend Limit

Property	Type	Mandatory	Description
type	String	Yes	Can be one of the following: <ul style="list-style-type: none"> daily: daily amount limit Weekly: weekly amount limit monthly: monthly amount limit daily_tx: limit number of daily transactions weekly_tx; limit number of weekly transactions monthly_tx: limit number of monthly transactions
threshold	Number	No	If type is daily,weekly or monthly indicate the limit amount * 1000000. If type is daily_tx, weekly_tx or monthly_tx indicate the number of max transactions in the specified period If no amount is present, that limit is managed by operator

Example

The Spend limit {type:monthly, threshold: 17000000} will indicate that the monthly limit is 17,00
The Spend limit {type:monthly_tx, threshold: 5} will indicate that user can make 5 transactions in a month

The Spend limit {type:monthly } will indicate that user has a monthly limit managed by operator .

5. Single Purchase

This API let you charge the user for a single product. The payment is “one-off”, that is non-recurrent.

You can call the `singlePurchase/purchase` endpoint to execute a one-off payment.

Alternatively you can call `singlePurchase/identify` to identify user. If the identification is successful, you will obtain an authorization token that can be used to continue with the purchase process by calling `singlePurchase/purchaseFromToken`.

5.1. `singlePurchase/purchase`

5.1.1. Endpoint

POST:

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/purchase](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/purchase)

- The `countryCode` to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The `SiteCode` to be specified in the URL is the one assigned to the merchant’s site at configuration time.

5.1.2. Request Parameters

Property	Type	Mandatory	Description
<code>productName</code>	String	Yes	Product name. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user’s invoice. DOCOMODigital team will assist you in selecting a suitable value.
<code>price</code>	String	Yes	Purchase price. Use a ‘.’ as the decimal separator. Up to two decimal places are supported (e.g. 2.00).
<code>currencyCode</code>	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
<code>clientIpAddress</code>	String	Yes	IP address of the device being used by the final user.
<code>httpHeaders</code>	String	Yes	Http headers sent by the end user’s browser. All headers should be passed as a single string, taken directly form the request. See http://tools.ietf.org/html/rfc7230#section-3.2
<code>imsi</code>	String	No	Client device IMSI. In case you’re integrating DOCOMO Digital API with a native mobile application, passing this parameter may speed up user recognition when the device is in 3G.
<code>msisdn</code>	String	No	MSISDN of the user in international format. Normally not needed, you can pass it if already known.
<code>alias</code>	String	No	Alias / Anonymous customer reference of the user. Normally not needed, you can pass it if already known.
<code>customerId</code>	String	No	Customer ID of the user. Normally not needed, you can pass it if already known.
<code>telcoCode</code>	String	No	User’s phone Operator. Refer to the “ONE API coverage” document for a list of supported telco codes. Normally not needed, you can pass it if already known.

requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.
paymentMethod	String	No	If null, it's assumed to be telephone carrier billing. Possible values are: <ul style="list-style-type: none"> • DCB: carrier billing • CreditCard: Credit Card payment

5.1.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be either "PURCHASE" or "INTERMEDIATE"

If final is true, the purchase transaction is complete, and you will receive the transaction details in the rest of the response parameters. The responseType will be PURCHASE.

If final is false, further actions and API calls are needed to complete the purchase. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

5.1.4. Response Parameters for PURCHASE Response Type

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "PURCHASE"
status	String	Yes	"BILLED", "PENDING_NOTIFICATION" or "ERROR"
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
purchaseCode	String	No	A five-digits receipt number of the purchase. It's present only if the status is BILLED.
amountCharged	String	No	It is the actual amount billed to the final user and may differ from the price passed in input. It's not present in case of billing failure.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3
infoToDisplay	Map <String , String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

5.1.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

5.2. singlePurchase/identify

5.2.1. Endpoint

POST:

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/identify](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/identify)

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

5.2.2. Request Parameters

Property	Type	Mandatory	Description
productName	String	Yes	Product name. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user's invoice. DOCOMODigital team will assist you in selecting a suitable value.
clientIpAddress	String	Yes	IP address of the device being used by the final user.
httpHeaders	String	Yes	Http headers sent by the end user's browser. All headers should be passed as a single string, taken directly from the request. See http://tools.ietf.org/html/rfc7230#section-3.2
imsi	String	No	Client device IMSI. In case you're integrating DOCOMO Digital API with a native mobile application, passing this parameter may speed up user recognition when the device is in 3G.
msisdn	String	No	MSISDN of the user in international format. Normally not needed, you can pass it if already known.
alias	String	No	Alias / Anonymous customer reference of the user. Normally not needed, you can pass it if already known.
customerId	String	No	Customer ID of the user. Normally not needed, you can pass it if already known.
telcoCode	String	No	User's phone operators. Refer to the "ONE API coverage" document. Normally not needed, you can pass it if already known.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on external pages.

peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> MOBILE: a mobile user agent WEB: a desktop user agent IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.
paymentMethod	String	No	If null, it's assumed to be telephone carrier billing. Possible values are: <ul style="list-style-type: none"> DCB: carrier billing CreditCard: Credit Card payment

5.2.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be either "IDENTIFY" or "INTERMEDIATE"

If final is true, the purchase transaction is complete, and you will receive the transaction details in the rest of the response parameters. The responseType will be PURCHASE.

If final is false, further actions and API calls are needed to complete the purchase. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

5.2.4. Response Parameters for IDENTIFY Response Type

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "IDENTIFY"
status	String	Yes	"IDENTIFIED", "NOT_IDENTIFIED" or "ERROR"
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.

errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
authToken	String	No	Authorization token. This can be used as an input for purchaseFromToken API. If the site is configured to sell both single purchase and subscription products, you may use this token also for subscription/subscribeFromToken API. Normally, a token can be used for just one purchaseFromToken or subscribeFromToken request. Under specific agreements DOCOMODigital and operators may allow the reuse of the token for multiple purchases ("persistent tokens"). Persistent tokens can be subject to expiration after an amount of time that depends on the operator.
userId	UserId	No	User identity. It's present only if the status is "IDENTIFIED".
telco	Telco	No	Telco operator. It's present only if the status is "IDENTIFIED".
infoToDisplay	Map <String, String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

5.2.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

5.3. singlePurchase/purchaseFromToken

5.3.1. Endpoint

POST:

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/purchaseFromToken](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/singlePurchase/purchaseFromToken)

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

5.3.2. Request Parameters

Property	Type	Mandatory	Description
authToken	String	Yes	Authorization token obtained from a previous call to singlePurchase/identify. If a site is configured to sell both single purchase and subscription products, you may also pass the the token generated by subscription/getAll. Normally, a token can be used for just one purchaseFromToken request. Under specific agreements DOCOMODigital and operators may allow the reuse of the token for multiple purchases ("persistent tokens"). Persistent tokens can be subject to expiration after an amount of time that depends on the operator.
productName	String	Yes	Product name. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user's invoice. DOCOMODigital team will assist you in selecting a suitable value.
price	String	Yes	Purchase price. Use a '.' as the decimal separator. Up to two decimal places are supported (e.g. 2.00).
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
clientIpAddress	String	Yes	IP address of the device being used by the final user.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)

channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> MOBILE: a mobile user agent WEB: a desktop user agent IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

5.3.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be either "PURCHASE" or "INTERMEDIATE"

If final is true, the purchase transaction is complete, and you will receive the transaction details in the rest of the response parameters. The responseType will be PURCHASE.

If final is false, further actions and API calls are needed to complete the purchase. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

5.3.4. Response Parameters for PURCHASE Response Type

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "PURCHASE"
status	String	Yes	"BILLED", "PENDING_NOTIFICATION" or "ERROR"
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation

			errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
purchaseCode	String	No	A five-digits receipt number of the purchase. It's present only if the status is BILLED.
amountCharged	String	No	It is the actual amount billed to the final user and may differ from the price passed in input. It's not present in case of billing failure.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3
infoToDisplay	Map <String , String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

5.3.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

6. Recurrent payments (Subscription)

NOTE: This paragraph is relevant only for Merchants that would like to sell subscription-based service (recurrent payments). If you are not interested in it, you can skip this section.

This API let you manage subscriptions, i.e. recurrent, periodic payments. Before using this API you must setup a subscription service providing all the necessary information about the frequency of the payment and the amount to be charged at each renewal.

Once the subscription service is configured, we'll communicate to you a unique "product name" that must be used in this API.

Under a special agreement, DOCOMODigital and operators may allow you to declare the product name, price and frequency dynamically at subscription time, skipping the provisioning phase ("delegated subscriptions").

Generally speaking a subscription may be successful even if the first payment fails. In this case DOCOMO Digital platform will try to recover the billing in the following days, within the limits set by each Mobile Network Operator. However, you may also configure your subscription service to deny the subscription if the first payment fails.

After this initial setup, you can call the subscription/subscribe endpoint to subscribe a user.

Instead of directly subscribing a user, you may want to know if the user has already subscribed to one of your services, and the details of the subscription. This can be accomplished calling the subscription/getAll endpoint. During this process you may also obtain an authorization token that can be used to continue with the subscription process calling subscription/startFromToken.

If a user has been subscribed, DOCOMO Digital platform will automatically execute the periodic payments according to the guidelines set by each Mobile Network Operator. Asynchronous payment notifications will be sent back to a notification callback of your choice.

If you're using delegated subscriptions, you will be in charge of renewing them, through the subscription/renew API.

Recurrent payments will continue until the unsubscription. The unsubscription may be triggered by the end-user himself, or by DOCOMO Digital platform or Operator customer care office. It is possible to define a date on which the subscription will be automatically terminated. Moreover, most Mobile Network Operators will automatically unsubscribe users after a given number of failed payments.

DOCOMO Digital platform provides the subscription/{subscriptionCode}/unsubscribe endpoint to let the user unsubscribe.

6.1. subscription/subscribe

Subscribe a user and perform the first payment.

6.1.1. Endpoint

POST

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/subscribe](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/subscribe)

- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

6.1.2. Request Parameters

Property	Type	Mandatory	Description
productName	String	Yes	Product name. Normally, it must match (case sensitively) the value provisioned in advance on DOCOMODigital platform. In case of delegated subscriptions, it can be a dynamic value. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user's invoice.
price	String	Yes	Purchase price. Use a '.' as the decimal separator. Up to two decimal places are supported (e.g. 2.00). Normally, it must match a price configured on DOCOMODigital platform. In case of delegated subscriptions, it can be a dynamic value.
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
promold	Array of String	No	List of promotion identifiers that could be applied to the purchase.
subEndDate	String	No	Specify when a subscription should be automatically stopped. If it is null the subscription will not be stopped until an explicit request is made. Format is 'YYYY-MM-DD'.
subFrequency	String	No	For delegated subscriptions, it's the subscription renewal frequency. It can be: <ul style="list-style-type: none"> • D: renewed every day • T: renewed every 3 days • W: renewed every 7 days • M: renewed every 30 days • Q: renewed every 90 days • Y: renewed every 365 days
clientIpAddress	String	Yes	IP address of the device being used by the final user.
httpHeaders	String	Yes	Http headers sent by the end user's browser. All headers should be passed as a single string, taken directly from the request. See http://tools.ietf.org/html/rfc7230#section-3.2
imsi	String	No	Client device IMSI. In case you're integrating DOCOMO Digital API with a native mobile application, passing this parameter may speed up user recognition when the device is in 3G.

msisdn	String	No	MSISDN of the user in international format. Normally not needed, you can pass it if already known.
alias	String	No	Alias / Anonymous customer reference of the user. Normally not needed, you can pass it if already known.
customerId	String	No	Customer ID of the user. Normally not needed, you can pass it if already known.
telcoCode	String	No	User's phone operator. Refer to the "ONE API coverage" document for a list of supported telco codes. Normally not needed, you can pass it if already known.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.
paymentMethod	String	No	If null, it's assumed to be telephone carrier billing. Possible values are: <ul style="list-style-type: none"> • DCB: carrier billing • CreditCard: Credit Card payment

6.1.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "SUBSCRIBE" or "INTERMEDIATE"

If final is true, the subscription activation is complete, and you will receive the subscription and transaction details in the rest of the response parameters. The responseType will be SUBSCRIBE.

If final is false, further actions and API calls are needed to complete the subscription activation. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

6.1.4. Response parameters for SUBSCRIBE responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "SUBSCRIBE"
subscriptionStatus	String	Yes	"SUBSCRIBED", "PENDING_NOTIFICATION" or "NOT_SUBSCRIBED" SUBSCRIBED: the subscription has been activated. PENDING_NOTIFICATION: the status of the user is still unknown. It will be notified later with a server to server notification. NOT_SUBSCRIBED: the user was not subscribed
billingStatus	String	Yes	"BILLED", "PARTIALLY_BILLED", "PENDING_NOTIFICATION" or "NOT_BILLED" <ul style="list-style-type: none"> BILLED: the user was charged the price of the subscription product, or the promotional price. The amount charged is returned in the "amountCharged" parameter. PARTIALLY_BILLED: the user was charged only a fraction of the price of the subscription product (or promotional price). This may happen if the product is configured for split billing. The amount charged is returned in the "amountCharged" parameter. PENDING_NOTIFICATION: the status of the payment is still unknown. It will be notified later with a server to server notification. NOT_BILLED: the payment of this subscription failed
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if subscriptionStatus is NOT_SUBSCRIBED.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if subscriptionStatus is NOT_SUBSCRIBED.
errorDescription	String	No	Human readable description of the error occurred. It's present if subscriptionStatus is NOT_SUBSCRIBED.
subscriptionCode	String	No	Unique identifier of the subscription. It's present if subscriptionStatus is SUBSCRIBED

transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
purchaseCode	String	No	A five-digits receipt number of the purchase. It's present only if the subscriptionStatus is SUBSCRIBED.
amountCharged	String	No	It is the actual amount billed to the final user and may differ from the price passed in input. It's not present in case of billing failure.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3
infoToDisplay	Map <String , String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

6.1.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

6.2. subscription/getAll

Return a list of all the active subscriptions for the user.

6.2.1. Endpoint

POST [https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/getAll](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/getAll)

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

6.2.2. Request Parameters

Property	Type	Mandatory	Description
productName	String	Yes	Product name. Normally, it must match (case sensitively) the value provisioned in advance on DOCOMO Digital platform. In case of delegated

			subscriptions, it can be a dynamic value. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user's invoice.
clientIpAddress	String	Yes	IP address of the device being used by the final user.
httpHeaders	String	Yes	Http headers sent by the end user's browser. All headers should be passed as a single string, taken directly from the request. See http://tools.ietf.org/html/rfc7230#section-3.2
imsi	String	No	Client device IMSI. In case you're integrating DOCOMO Digital API with a native mobile application, passing this parameter may speed up user recognition when the device is in 3G.
msisdn	String	No	MSISDN of the user in international format. Normally not needed, you can pass it if already known.
alias	String	No	Alias / Anonymous customer reference of the user. Normally not needed, you can pass it if already known.
customerId	String	No	Customer ID of the user. Normally not needed, you can pass it if already known.
telcoCode	String	No	User's phone operator. Refer to the "ONE API coverage" document for a list of supported telco codes. Normally not needed, you can pass it if already known.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on external pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.
paymentMethod	String	No	If null, it's assumed to be telephone carrier billing. Possible values are:

			<ul style="list-style-type: none"> • DCB: carrier billing • CreditCard: Credit Card payment
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6.2.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "GET_ALL" or "INTERMEDIATE"

If final is true, the identification transaction is complete, and you will receive the transaction details (if available) in the rest of the response parameters. The responseType will be GET_ALL.

If final is false, further actions and API calls are needed to complete the identification transaction. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

6.2.4. Response parameters for GET_ALL responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "GET_ALL"
status	String	Yes	"IDENTIFIED", "NOT_IDENTIFIED" or "ERROR"
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
subscriptions	Array of Subscription	No	List of active subscriptions for the identified user and for the product passed in input. Most operators do not allow multiple subscriptions for the same user and product, so most of the times the number of elements in this array is 0 or 1. This parameter is returned only if status is IDENTIFIED.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
authToken	String	No	Authorization token. This can be used as an input for subscribeFromToken API. If the site is configured to sell both single purchase and subscription products, you may use this token also for singlePurchase/purchaseFromToken API. Normally, a token can be used for just one purchaseFromToken or subscribeFromToken request. Under specific agreements DOCOMODigital and operators may allow the reuse of the token for multiple purchases ("persistent tokens"). Persistent tokens can be subject to expiration after an amount of time that depends on the operator.
userId	Userld	No	User identity. It's present only if the status is "IDENTIFIED".
telco	Telco	No	Telco operator. It's present only if the status is "IDENTIFIED".

infoToDisplay	Map <String, String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7
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The subscription object is a map of the following values:

Property	Type	Mandatory	Description
subscriptionCode	String	Yes	Unique identifier of the subscription.
userId	UserId	Yes	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	Yes	The object represents the operator used during the flow. Refer to par. 4.3
subEndDate	String	No	Specify when a subscription should be automatically stopped. If it is null the subscription will not be stopped until an explicit request is made.
promold	String	No	Unique identifier of the specific promotion.
lastBilledDate	String	No	Is the date of the last billed event
dateActivated	String	Yes	Is the date in which the subscription has been activated
status	String	Yes	May be one of the following: <ul style="list-style-type: none"> ACTIVE: the subscription can be renewed at the end of the current period DELETE_PENDING: user has paid for the current period and should be given access to the service. However, the subscription may no longer be renewed and will terminate at the end of the current period. PENDING_NOTIFICATION: the usbscription activation request has been submitted to DOCOMODigital, but the user is not yet subscribed. It should not be charged.

6.2.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

6.3. subscription/subscribeFromToken

Subscribe a user by using an authorization token obtained from a previous call to subscription/getAll or purchase/identify

6.3.1. Endpoint

POST

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/subscribeFromToken](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/subscribeFromToken)

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

6.3.2. Request Parameters

Property	Type	Mandatory	Description
authToken	String	Yes	Authorization token obtained from a previous call to subscription/getAll. If a site is configured to sell both single purchase and subscription products, you may also pass the the token generated by singlePurchase/identify. Normally, a token can be used for just one subscribeFromToken request. Under specific agreements DOCOMODigital and operators may allow the reuse of the token for multiple purchases ("persistent tokens"). Persistent tokens can be subject to expiration after an amount of time that depends on the Operator.
productName	String	Yes	Product name. Normally, it must match (case sensitively) the value provisioned in advance on DOCOMODigital platform. In case of delegated subscriptions, it can be a dynamic value. Depending on the operator capabilities, this string may be shown during the purchase flow or in the user's invoice.
price	String	Yes	Purchase price. Use a '.' as the decimal separator. Up to two decimal places are supported (e.g. 2.00). Normally, it must match a price configured on DOCOMODigital platform. In case of delegated subscriptions, it can be a dynamic value.
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
promold	Array of String	No	List of promotion identifiers that could be applied to the purchase.
subEndDate	String	No	Specify when a subscription should be automatically stopped. If it is null the subscription will not be stopped until an explicit request is made. Format is 'YYYY-MM-DD'.
subFrequency	String	No	For delegated subscriptions, it's the subscription renewal frequency. It can be: <ul style="list-style-type: none"> • D: renewed every day

			<ul style="list-style-type: none"> • T: renewed every 3 days • W: renewed every 7 days • M: renewed every 30 days • Q: renewed every 90 days • Y: renewed every 365 days
clientIpAddress	String	Yes	IP address of the device being used by the final user.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

6.3.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "SUBSCRIBE" or "INTERMEDIATE"

If final is true, the subscription activation is complete, and you will receive the subscription and transaction details in the rest of the response parameters. The responseType will be SUBSCRIBE.

If final is false, further actions and API calls are needed to complete the subscription activation. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

6.3.4. Response parameters for SUBSCRIBE responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "SUBSCRIBE"
subscriptionStatus	String	Yes	"SUBSCRIBED", "PENDING_NOTIFICATION" or "NOT_SUBSCRIBED" SUBSCRIBED: the subscription has been activated. PENDING_NOTIFICATION: the status of the user is still unknown. It will be notified later with a server to server notification. NOT_SUBSCRIBED: the user was not subscribed
billingStatus	String	Yes	"BILLED", "PARTIALLY_BILLED", "PENDING_NOTIFICATION" or "NOT_BILLED" <ul style="list-style-type: none"> BILLED: the user was charged the price of the subscription product, or the promotional price. The amount charged is returned in the "amountCharged" parameter. PARTIALLY_BILLED: the user was charged only a fraction of the price of the subscription product (or promotional price). This may happen if the product is configured for split billing. The amount charged is returned in the "amountCharged" parameter. PENDING_NOTIFICATION: the status of the payment is still unknown. It will be notified later with a server to server notification. NOT_BILLED: the payment of this subscription failed
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if subscriptionStatus is NOT_SUBSCRIBED.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if subscriptionStatus is NOT_SUBSCRIBED.
errorDescription	String	No	Human readable description of the error occurred. It's present if subscriptionStatus is NOT_SUBSCRIBED.
subscriptionCode	String	No	Unique identifier of the subscription. It's present if subscriptionStatus is SUBSCRIBED
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically

			invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
purchaseCode	String	No	A five-digits receipt number of the purchase. It's present only if the subscriptionStatus is SUBSCRIBED.
amountCharged	String	No	It is the actual amount billed to the final user and may differ from the price passed in input. It's not present in case of billing failure.
promold	String	No	Identifier of the promotion applied to the subscription.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3
infoToDisplay	Map <String , String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

6.3.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses

6.4. subscription/{subscriptionCode}/unsubscribe

Unsubscribe a user.

6.4.1. Endpoint

POST

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/{subscriptionCode}/unsubscribe](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/{subscriptionCode}/unsubscribe)

- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- The "subscriptionCode" is the unique identifier of the subscription that will be deactivated, it is returned in the final response of a Subscription workflow.

6.4.2. Request Parameters

Property	Type	Mandatory	Description
clientIpAddress	String	Yes	IP address of the device being used by the final user.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the

			final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action (like in South Africa)
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

6.4.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "UNSUBSCRIBE" or "INTERMEDIATE"

If final is true, the unsubscription is complete, and you will receive the operation details in the rest of the response parameters. The responseType will be UNSUBSCRIBE.

If final is false, further actions and API calls are needed to complete the unsubscription. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

6.4.4. Response parameters for UNSUBSCRIBE responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "UNSUBSCRIBE"

status	String	Yes	<p>“UNSUBSCRIBED”, “PENDING_UNSUBSCRIPTION” or “ERROR”</p> <ul style="list-style-type: none"> UNSUBSCRIBED: the subscription has been deactivated, no further payments will occur for this subscription. You can stop providing the service to this user. The user is free to subscribe to the same product in any moment. PENDING_UNSUBSCRIPTION: user has paid for the current period and should be given access to the service. However, the subscription may no longer be renewed and will terminate at the end of the current period. <p>ERROR: an error occurred and the user may still be subscribed. You can call the getAll API to verify the actual status of the user, and repeat the unsubscription call if needed.</p>
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
subscriptionCode	String	No	Unique identifier of the subscription. It's present if status is not ERROR
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
infoToDisplay	Map <String, String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

6.4.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

6.5. subscription/{subscriptionCode}/renew

This API is only available if you're working with delegated subscriptions. It allows Merchants to perform the renewal (recurrent payment) of a subscription. Timing and frequency of renewal operations must be agreed with DOCOMODigital Business Team and approved by Operators.

6.5.1. Endpoint

POST

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/{subscriptionCode}/renew](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/subscription/{subscriptionCode}/renew)

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- The "subscriptionCode" is the unique identifier of the subscription that will be deactivated, it is returned in the final response of a Subscription workflow.

6.5.2. Request Parameters

Property	Type	Mandatory	Description
price	String	Yes	Purchase price. Use a '.' as the decimal separator. Up to two decimal places are supported (e.g. 2.00).
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
clientIpAddress	String	Yes	IP address of the device being used by the final user.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMODigital platform.
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on external pages.
peNotificationUrl	String	No	A Merchant URL where it is notified asynchronously the result of the OPTIN sent by the user. It is useful for purchase flow that request an user OPTIN action.
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 .

			At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

6.5.3. Response Parameters

The API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "RENEWAL" or "INTERMEDIATE"

If final is true, the renewal is complete, and you will receive the operation details in the rest of the response parameters. The responseType will be RENEWAL.

If final is false, further actions and API calls are needed to complete the renewal. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

6.5.4. Response parameters for RENEW responseType

The JSON object has exactly the same format of the subscribe response (see section 6.1.4). The only difference is the "responseType" parameter, which has a value "RENEWAL".

6.5.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses.

7. Refunds

Perform a total or partial refund of a transaction.

7.1. *transaction/{transactionCode}/refund*

7.1.1. Endpoint

POST

[https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/transaction/{transactionCode}/refund](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/transaction/{transactionCode}/refund)

- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- The "transactionCode" to be specified in the URL is the identifier of the transaction to be refunded.

7.1.2. Request Parameters

Property	Type	Mandatory	Description
clientIpAddress	String	No	IP address of the device being used by the final user.
httpHeaders	String	No	Http headers sent by the end user's browser.
requestId	String	No	Merchant request id, max allowed 250 characters.
notes	String	Yes	Free Text for Merchant purposes
callbackUrl	String	No	A Merchant URL where the user is redirected during the purchase flow. This URL is used for all possible redirection back that can be needed during the flow to regain control after the user navigated on externals pages.
channel	String	No	Channel through which the operation is performed. It's tracked for statistical purposes only. Can be: <ul style="list-style-type: none"> • MOBILE: a mobile user agent • WEB: a desktop user agent • IN_APP: a native application
price	String	No	Amount to be refunded, it must be less or equal than the total amount pending to refund on the original transaction. If not filled, the full amount is refunded
currencyCode	String	No	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific operator.
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of the PIN SMS message. This feature is not supported by all carriers. If this parameter is not

			passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

7.1.3. Response Parameters

API may return two different response types. In order to understand which response type you're receiving, you need to extract the value of final and the responseType parameter.

Property	Type	Mandatory	Description
final	Boolean	Yes	Whether this is a final or intermediate response
responseType	String	Yes	Can be "REFUND" or "INTERMEDIATE"

If final is true, the refund is complete, and you will receive the operation details in the rest of the response parameters. The responseType will be REFUND.

If final is false, further actions and API calls are needed to complete the refund. The details of the actions to perform and of the next API call to execute will be included in the rest of the response parameters. The responseType will be INTERMEDIATE.

7.1.4. Response parameters for REFUND responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "REFUND"
status	String	Yes	"REFUNDED", "PARTIALLY_REFUNDED", "PENDING_NOTIFICATION" or "ERROR" <ul style="list-style-type: none"> REFUNDED: the full amount of the transaction has been refunded PARTIALLY_REFUNDED: a fraction of the transaction price has been refunded. This can only happen if the "price" and "currencyCode" parameters were present in input. PENDING_NOTIFICATION: a refund request has been accepted but not processed yet. You will receive an asynchronous notification with the final status ERROR: the refund operation failed
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if subscriptionStatus is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if subscriptionStatus is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if subscriptionStatus is ERROR.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	Yes	A unique identifier of the purchase transaction generated by the merchant. It's present only if you

			pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
amountRefunded	String	No	Amount refunded to the user
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
refundedTransaction Code	String	Yes	Code of the refunded transaction
infoToDisplay	Map	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7

7.1.5. Response parameters for INTERMEDIATE responseType

Please refer to section Workflow actions at par. 8 for learning how to manage intermediate responses .

8. Workflow actions

Each API call may return an “INTERMEDIATE” response. In this case, further actions and API calls are needed to complete the requested operation. The subsequent API calls may in turn give an intermediate response, effectively guiding the client step-by-step in a workflow. This chapter describes what to do when you receive an intermediate response.

8.1. Intermediate response parameters

An intermediate response always contains the following parameters:

Property	Type	Mandatory	Description
responseType	String	Yes	Will be “INTERMEDIATE”
nextAction	String	Yes	Describes the next action to be taken. It may be one of the following: <ul style="list-style-type: none"> • REDIRECT • READ_OTP • ADD_PARAMETERS • USER_CONFIRMATION • OPTIN • EMBED_JS
nextActionParams	Map <String, String>	No	This field may contain a map of parameters that must be used to perform the next action. These may or may not be present, depending on the value of the nextAction field.
resumeUrl	String	Yes	This is the endpoint of the API call that must be performed after completing the next action. The parameters to be passed to this API depend on the next action.
infoToDisplay	Map <String, String>	No	This field may contain a map of parameters that should be presented to the user. Examples include information on promotions, instructions for activating a premium SMS service, and so on. Please refer to par. 4.3.7
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action
errorDescription	String	No	Human readable description of the error occurred.

In the following paragraph you will find a description of all the possible actions that you may receive in an intermediate response, the related nextActionParams and the parameters to be passed when calling the resumeUrl endpoint.

8.2. Resume request common parameters

The parameters to be passed in the resume request depend on the action returned by the previous intermediate response. However there are a few common parameters that you can pass in any resume request.

Property	Type	Mandatory	Description
language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of

			the PIN SMS message. This feature is not supported by all carriers. If this parameter is not passed, we're going to send the message in the default locale for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the PIN message. This feature is not supported by all carriers.

8.3. REDIRECT

8.3.1. Actions to execute

Redirect the user to the URL defined in the "redirectionUrl" parameter. If "postParams" is present, the redirect must be done via Javascript, posting the content of field "postParams". You will be redirected back to the callbackUrl provided in the first API call of the workflow. Upon intercepting the callback, you must do a server to server API call to the "resumeUrl" passing the received query string in the queryString parameter.

8.3.2. Next action parameters

Property	Type	Mandatory	Description
redirectionUrl	String	Yes	URL the user must be redirected to
postParams	Map <String, String>	No	<p>If present, you should send to the client an HTML page containing a form with the parameter names and values specified in this variable. Keep in mind that the JSON response is UTF-8 encoded, so it's recommended to set a content-type header "Content-Type: text/html; charset=UTF-8".</p> <p>The form should contain only hidden fields, and a submission button to proceed with the redirect.</p> <p>It's also recommend to include in the page a Javascript that automatically submits the form as soon as the page is loaded.</p>
redirectionCharset	String	No	<p>This parameter may be returned when "postParams" is returned.</p> <p>If present, you should recode the postParams names and values from UTF-8 into the specified character set, and set that character set for the page that contains the form.</p>

8.3.3. Resume request parameters

Property	Type	Mandatory	Description
queryString	String	Yes	Query string received in the callbackUrl
requestHeaders	String	Yes	HTTP headers of the request received on the callbackUrl
requestBody	String	No	Body of the request received on the callbackUrl. Mandatory if a request body is present, otherwise can be set to null.

8.4. READ_OTP

8.4.1. Actions to execute

Ask the user to type the one time password (OTP) that he has received via SMS. Then, call the “resumeUrl” API passing the OTP the “otp” parameter.

8.4.2. Next action parameters

No parameter is needed to perform this action.

8.4.3. Resume request parameters

Property	Type	Mandatory	Description
Otp	String	Yes	The OTP entered by the user.

8.5. ADD_PARAMETERS

8.5.1. Actions to execute

Some parameters that were not passed to the initial request must be provided..

8.5.2. Next action parameters

Property	Type	Mandatory	Description
missingParams	Array of String	No	List of input parameters that must be provided.

The following parameters may be requested:

Property	Type	Description
callbackUrl	String	Url to which the user will be redirected back.
msisdn	String	User's phone number in international format.
telcoCode	String	User's phone operators. Refer to the “ONE API coverage” document for a list of supported telco codes. The infoToDisplay parameter will contain a “availableTelcos” array that may be used to present to the user a drop-down menu of the available operators.
password	String	User's password. It can be required to confirm user identification on the Operator side.

8.5.3. Resume request parameters

You should pass the parameters present in the “missingParams” array.

8.6. USER_CONFIRMATION

8.6.1. Actions to execute

Display the information provided in “infoToDisplay” and ask the user to confirm that he wants to complete the purchase.

8.6.2. Next action parameters

No parameter is needed to perform this action.

8.6.3. Resume request parameters

Property	Type	Mandatory	Description
confirmAction	String	Yes	Must be either “CONFIRM” or “CANCEL”

8.7. OPTIN

8.7.1. Actions to execute

The user must perform an action outside the browser to proceed with the the flow. The exact action to be performed is identified by the “optinMode” next action parameter.

You should inform the user about the action he has to execute, then ask him to confirm on the web interface when he has finished. Upon user confirmation, call the resume URL.

The possible optin modes are:

- SEND_SMS: the customer has to send an SMS with a given text to a given short code number. The text and short code number are provided in the “smsText” and “shortcode” next action parameters.
- REPLY_SMS: the customer has to reply to an SMS that will be sent to him
- USSD: the customer has to interact with an USSD menu that is going to be opened

8.7.2. Next action parameters

Property	Type	Mandatory	Description
optinMode	String	Yes	One of: “SEND_SMS”, “REPLY_SMS”, “USSD”
smsText	String	No	Text of the opt-in SMS. Present if optinMode is SEND_SMS.
shortcode	String	No	Shortcode of the opt-in SMS. Present if optinMode is SEND_SMS.

8.7.3. Resume request parameters

No parameters are needed in the resume request.

8.8. EMBED_JS

8.8.1. Actions to execute

Show a page that includes a Javascript file. This Javascript will perform some operator-dependent activity, then redirect to the callbackUrl provided in the first API call of the workflow. Upon intercepting the callback, you must do a server to server API call to the “resumeUrl” passing the received query string in the queryString parameter.

8.8.2. Next action parameters

Property	Type	Mandatory	Description
scriptUrl	String	Yes	URL of the javascript file that has to be included in the page.
scriptParams	Map <string,string>	No	A set of parameters that must be passed to the script.

The HTML code to be generated in the following way:

1. Define a <div> tag where the output of the Javascript file should appear. Assigning an id to it.
2. Include a <script> element with:
 - a. An id
 - b. Take the value of scriptUrl, append to it a query string parameter named "tagId" with a value corresponding to the <script> element id.
 - c. Add a custom property to the script element named "data-targetId", with a value corresponding to the id of the <div> element where the output of the Javascript file should appear.
 - d. For each of the scriptParams elements, prepend to the parameter name the string "data-" and add it to the script element as custom attribute. The value of the custom attribute will be the value of the parameter extracted from the scriptParams map.

8.8.3. Resume request parameters

Property	Type	Mandatory	Description
queryString	String	Yes	Query string received in the callbackUrl
requestHeaders	String	Yes	HTTP headers of the request received on the callbackUrl
requestBody	String	No	Body of the request received on the callbackUrl. Mandatory if a request body is present, otherwise can be set to null.

8.8.4. Example

This intermediate response:

```
{
  "responseType": "INTERMEDIATE",
  "nextAction": "EMBED_JS",
  "nextActionParams": {
    "scriptUrl": "http://a-domain/script.js",
    "scriptParams": {
      "checkoutId": "D211EB7A0391F7D3371551111F9C7912",
      "transactionId": "F7D3371551111F9C7912D211EB7A0391"
    }
  },
  "resumeUrl": "https://api.cashlog.com/mpay-
ws/v2/country/MY/site/SITECODE/transaction/05d4eebf-d49c-40a6-9bdf-
1b8ffe/resume",
  "cancelUrl": " https://api.cashlog.com/mpay-
ws/v2/country/MY/site/SITECODE/transaction/05d4eebf-d49c-40a6-9bdf-
1b8ffe/cancel"
}
```

Must generate this HTML code:

```
<div id="purchaseArea">
```

```
<script id="SCR1"  
  src=" http://a-domain/script.js?tagId=SCR1 "  
  data-targetId="purchaseArea"  
  data-checkoutId="D211EB7A0391F7D3371551111F9C7912"  
  data-transactionId="F7D3371551111F9C7912D211EB7A0391"  
></script>  
</div>
```

9. Notification Callback

Some operations performed by DOCOMODigital platform are asynchronous, see for example the case of a purchase call returning a PENDING_NOTIFICATION status. Other operations are not triggered by you but rather from the operator: For example a user may obtain the refund of a purchase transaction, deactivate his phone line or request to change his MSISDN (internal portability).

DOCOMODigital platform can notify you the result of all operations, both the ones triggered by you (purchase and identify operations) and the ones not triggered by you but related to your customers.

Notifications are sent in the form of HTTP POST requests to an endpoint that can be configured in the merchant portal (see section 3). They are protected by a digital signature that prevents spoofing. To guarantee data confidentiality, we recommend that you implement your endpoint in HTTPS.

Notification format is explained in section 9.1. Upon receiving a notification, you should validate the digital signature to make sure that the notification is authentic: the algorithm is explained in the next paragraphs.

Then you should unserialize the JSON data contained in the “response” POST parameter. You will always find a property named “responseType”. Depending on the value of this property you can understand which type of notification you’re receiving and how to parse the rest of the JSON object.

After processing the notification you should return us a response with an HTTP 200 status. The content of the response will be ignored by the DOCOMO Digital server. If we do not receive any response from the notification listener, or if the response has an HTTP status different from 200, we will retry to send the notification. We will do a retry every 10 minutes for the first hour, and one every hour in the following 23 hours. The retry expires 24 hours after the first notification attempt.

You may receive one of the following values for “responseType”:

- PURCHASE: notification of a “purchase” or “purchase from token” flow
- IDENTIFY: notification of an “identify” flow
- SUBSCRIBE: notification of a “subscribe” or “subscribe from token” flow
- GET_ALL: notification of a “getAll” flow
- UNSUBSCRIBE: notification of an “unsubscribe” flow
- PURCHASE_RETRY: notification of a charge to retry a failed first billing of a subscription.
- RENEWAL: notification of a charge to renew a subscription
- RENEWAL_RETRY: notification of a charge to retry a failed renew
- REFUND: notification of a refund, that can triggered by the refund API (see section 7) or by other sources (customer care)
- USERID_CHANGE: notification that a user has changed his identifier on the operator side. For example some users may require to change their phone number.
- USERID_DEACTIVATION: notification that a user has deactivated his phone contract, and therefore his former userId may be reassigned to another user

The format of the JSON object in these cases is described in the following sections.

9.1. Notification format

Notifications are sent via HTTP protocol with method POST and content-type 'application/x-www-form-urlencoded'. The notification follows the standards defined by the OAuth 1.0 Security protocol. The public key to verify notification can be downloaded from the following link: <https://www.cashlog.com/portal/download/publickeys/dcb-public-key.pem>

Below the details of the structure of a notification:

Purchase Example

```

response="%7B%27responseType%27%3A%27PURCHASE%27%2C%27status%27%3A%27BILLED%27%2C%27transactionCode%27%3A%279812f3f7-1ce9-4f5e-c335-744591%27%2C%27requestId%27%3A%2724457-8897%27%2C%27purchaseCode%27%3A%2787541%27%2C%27amountCharged%27%3A%273.45%27%2C%27userId%27%3A%27B%27msisdn%27%3A%27%2B33784577884%27%7D%27%2C%27telco%27%3A%27B%27code%27%3A%27BOUY%27%2C%27name%27%3A%27Bouygues%27%7D%7D",
oauth_token="",
oauth_consumer_key="MPay",
oauth_nonce="kll09940pd9333jh",
oauth_timestamp="1443702896",
oauth_signature_method="RSA-SHA1",
oauth_signature="5M%2Bjk1ZZnlecblj9MsmMU7eiRKs%3D"
oauth_version="1.0"

```

We highly recommend that a notification is verified by the merchant using the signature in it.

9.2. Notification types

9.2.1. Purchase notifications

In case of purchase notifications, the "responseType" property in the JSON will have a "PURCHASE" value. The format of the JSON object will be the same described in section 5.1.4.

9.2.2. Identify notifications

In case of identification notifications, the "responseType" property in the JSON will have a "IDENTIFY" value. The format of the JSON object will be the same described in section 5.2.4.

9.2.3. Subscribe notification

The JSON object has exactly the same format of the subscribe response. See paragraph 6.1.4

9.2.4. GetAll notification

The JSON object has exactly the same format of the getAll response. See paragraph 6.2.4

9.2.5. Unsubscribe notification

The JSON object has exactly the same format of the unsubscribe response. See paragraph 6.4.4

9.2.6. Purchase retry notification

The JSON object has exactly the same format of the subscribe response (see section 6.1.4). The only difference is the "responseType" parameter, which has a value "PURCHASE_RETRY".

9.2.7. Renewal notification

The JSON object has exactly the same format of the subscribe response (see section 6.1.4). The only difference is the “responseType” parameter, which has a value “RENEWAL”.

9.2.8. Renewal retry notification

The JSON object has exactly the same format of the subscribe response (see section 6.1.4). The only difference is the “responseType” parameter, which has a value “RENEWAL_RETRY”.

9.2.9. Refund notification

A successful transaction may be later refunded at the user’s request. Therefore you may receive this notification even if you have not implemented the refund API.

The JSON object has exactly the same format of the refund response (see section 7.1).

9.2.10. UserId change notifications

This notification is sent when a user decides to change his MSISDN (internal portability). DOCOMODigital platform will automatically update the MSISDN of all active subscriptions and persistent tokens, so normally no action is required on merchant side. However, if you persist MSISDN information on your side, this notification may be useful.

Please note that most of the Operators will not disclose this information.

The response object has the following properties:

Property	Type	Mandatory	Description
responseType	String	Yes	Will be “USERID_CHANGE”
Status	String	Yes	“CHANGED”
oldUserId	UserId	Yes	Old user identifier on the Telco systems. Refer to par. 4.3
newUserId	UserId	Yes	New user identifier on the Telco systems. Refer to par. 4.3
changeDate	String	Yes	Date when the UserId change took place

9.2.11. UserId deactivation notifications

This notification is sent when a user decides to close his contract with the Operator. DOCOMODigital platform will automatically unsubscribe all active subscriptions and expire persistent tokens, so normally no action is required on merchant side. However, if you persist MSISDN information on your side, this notification may be useful.

Please note that most of the Operators will not disclose this information.

The response object has the following properties:

Property	Type	Mandatory	Description
responseType	String	Yes	Will be “USERID_DEACTIVATION”
status	String	Yes	“DEACTIVATED”
userId	UserId	Yes	User identifier on the Telco systems. Refer to par. 4.3

deactivationDate	String	Yes	Date when the UserId change took place
------------------	--------	-----	--

10. Promo Management

You can define promotional prices for a subscription product on a given set of Mobile Network Operators. There are two types of promotions:

- Period based: you define the price that will apply to every subscription and renewal falling between two dates. For example: “For Vodafone users: 1€ instead of 2€ for all transactions between January 15th and February 15th”.
- Iteration based: you define the price based on the renewal number. For example “For TIM and Wind users: free for the first 2 weeks of subscription”.

You may define complex promotions combining discounted prices for various periods or iterations, For example: “Vodafone users: free for the first two weeks, then 1€ for the following 2 weeks”.

Some operators let you limit the scope of a promotion only to a specific type of user profile (pre-paid, post-paid, business).

Promotions have a limited lifetime, after which they expire and can no longer be applied to new subscriptions. They will of course still apply to the users that were subscribed during the time of validity.

Promotions may or may not be applied twice to the same user, depending on the configuration. Suppose for example that a promo is valid between January 1st and January 15th, and involves 1 month free for Vodafone users. If a user subscribes on January 15th, his subscription will be free of charge until February 14th. However, if a user subscribes on January 16th, this promo will not be applied.

To configure a promotion you need to contact DOCOMO Digital Business team, who will take care of the operator’s approval and configure it on the platform. Each promotion will be given an identification number that can be passed in the promold field of the “subscribe” and “subscribe from token” buttons.

You may also pass a list of promoID in the same button, for example, if you have the following promotions:

- 11201: Vodafone: Free for the first 3 weeks
- 11203: TIM: Free for the first 2 weeks

and you pass “11201,11203” in the purchase button, the promo 11201 will be applied if the user is a Vodafone one, 11203 if the user is a TIM one, and no promotion for all other operators.

DOCOMO Digital platform performs a validation of the promotions that are passed in the button, and can throw blocking or non-blocking errors.

- Blocking errors (the subscription flow will fail):
 - Configuration error: one or more promold in the list are not configured
 - Overlapping: you are passing two promotions that apply to the same class of users
- Non-blocking errors (the subscription flow will move on, but the promo will not be applied):
 - Promo out of validity period: you passed a promotion that is not yet valid or has already expired
 - Promo already applied: the user has already purchased the same product under promotion, and the promotion is marked as non-repeatable

Below the list of error codes related to promotion:

ERR_0158	Invalid Promo, One or all promo is not related to the product or is not even present in the DB. This error blocks the purchase at any time. It’s a fatal error
ERR_0159	Expired Promo, the promo cannot be applied because the date_stop in the subscription_service_promo table is less than the date the user is subscribing. It’s a warning error

ERR_0160	Promo already used for the number doing the purchase, the purchase can go on but the full price will be applied, and the user is notified in the page of the purchase. It's a warning error
ERR_0161	Promotion overlapping means that in the list of promotions that the merchant pass, 2 or more are related to the same operator which is not allowed. It's a fatal error
ERR_0162	Invalid Profile. The promo can't be applied because the user profile is not the one associated to the promo. It's a warning error and it can be returned only if the billing profile of the user is returned by the Operator.

For the list of operators that support promotions you can refer to the "ONE API coverage" doc.

11. Merchant API

11.1. *getSiteStatus*

Return the status of a given site in the DOCOMO Digital Platform.

Interface:

- Endpoint: `http[s]://api.cashlog.com/mpay-ws/backend/api/purchase/getSiteStatus`
- Request method: HTTP POST
- Request Media Type: `application/json`
- Response Media Type: `application/json`
- Recommended timeout: 30s.

Request parameters

Param Name	Param Description	Type	Mandatory
siteCode	Site Code	String	Yes

Response parameters

Param Name	Param Description	Type	Mandatory
statusCode	The main status response	String	Yes
statusCodeDetail	Detailed error code	String	No
statusCodeDescription	Specific error description	String	No
siteStatus	Site Status	String, possible values: <ul style="list-style-type: none"> • TRIAL • TRIAL_APPROVED • TRIAL_NOT_APPROVED • ONLINE • BLOCKED • DELETED 	Yes, if status OK
integrationType	Integration level	String, possible values: <ul style="list-style-type: none"> • ADVANCED • DELEGATED • BASIC • BASICPLUS • BASICNOIFRAME • BASICPLUSNOIFRAME 	No

Status Return Codes

Status Code	Status Code Description
OK	Request successfully completed.
E_INVALID_SITE_CODE	Invalid site code

Example Request

Request
<pre>{ "siteCode" : "SITE_0001" }</pre>

Example Request**Success**

```
{
  "siteStatus" : "ONLINE",
  "statusCode" : "OK"
}
```

Invalid site

```
{
  "statusCode" : "E_INVALID_SITE_CODE",
  "statusCodeDescription" : "Invalid site code"
}
```

Internal error

```
{
  "statusCode" : "ERR_0007",
  "statusCodeDetail" : "ERR_9999",
  "statusCodeDescription" : "Generic failure"
}
```

12. Messaging API

12.1. sendSMS

This API method allows Merchants to send additional free SMS to user that have completed a purchase (**both** on demand and subscription).

In order to use this API, a Merchant need to be authorized by the DOCOMO Digital business team.

The API will return as soon as the SMS has been taken in charge by the DOCOMO Digital platform.

To prevent abuse, a limit on maximum number of SMS is enforced by the platform. Additionally, SMS containing “bad words” will be rejected.

In case of additional SMS related to subscription services:

- the maximum number allowed refers to each billing period
- an error will occur if the user has been already deactivated

Interface

- *Endpoint:* `http[s]://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/transaction/{transactionCode}/sendSMS`
- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant’s site at configuration time.
- The “transactionCode” to be specified in the URL is the identifier of the transaction which require the SMS Sending
- Recommended timeout: 30s.

Request parameters

Param Name	Type	Mandatory	Param Description
smsText	String	Yes	SMS Text to be sent

Response parameters for SEND_SMS responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be “SEND_SMS”
status	String	Yes	“SENT” or “ERROR”
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action
errorDescription	String	No	Human readable description of the error occurred.

Error codes

mainErrorCode	detailedErrorCode	errorDescription
ERR_0020	ERR_0162	The user has already unsubscribed
ERR_0020	ERR_0163	Maximum number of SMS was exceeded
ERR_0020	ERR_0164	The sendSMS method is disabled for this merchant
ERR_0020	ERR_0165	The SMS text contains bad words

Example Request**Request**

```
{
  "smsText": "Your unlock code is 27547"
}
```

Example Responses**Success**

```
{
  "final": true,
  "status": "SENT",
  "responseType": "SEND_SMS"
}
```

SMS limit reached

```
{
  "responseType": "SEND_SMS",
  "final": true,
  "mainErrorCode": "ERR_0020",
  "status": "ERROR",
  "detailedErrorCode": "ERR_0163",
  "errorDescription": "Maximum number of SMS was exceeded"
}
```

12.2. sendSMSTrusted

This API method allows Merchants to send additional SMS to the users. Messages are free for the user but will be charged back to you.

In order to use this API, a Merchant need to be authorized by the DOCOMO Digital business team.

The API will return as soon as the SMS has been taken in charge by the DOCOMO Digital platform.

To prevent abuse, SMS containing “bad words” will be rejected.

Interface

- *Endpoint: [https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/messaging/sendSMSTrusted](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/messaging/sendSMSTrusted)*
- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant’s site at configuration time.
- The “transactionCode” to be specified in the URL is the identifier of the transaction which require the SMS Sending
- Recommended timeout: 30s.

Request parameters

Param Name	Type	Mandatory	Param Description
telcoCode	String	Yes	User's phone operators. Refer to the “ONE API coverage” doc for a list of supported telco codes.
msisdn	String	Yes	MSISDN of the target user. Mandatory unless Alias is provided
Alias	String	Yes	Alias of the target user. Mandatory unless msisdn is provided
smsText	String	Yes	SMS Text to be sent

Response parameters for SEND_SMS responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be “SEND_SMS”
status	String	Yes	“SENT” or “ERROR”
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action
errorDescription	String	No	Human readable description of the error occurred.

Error codes

mainErrorCode	detailedErrorCode	errorDescription
ERR_0020	ERR_0164	The sendSMSTrusted method is disabled for this merchant

ERR_0020	ERR_0165	The SMS text contains bad words
----------	----------	---------------------------------

13. Token API

13.1. *token/{tokenCode}/check*

This API method allows you to check the current status of an authorization token.

Interface

- *Endpoint: [http\[s\]://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/token/{tokenCode}/check](http[s]://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/token/{tokenCode}/check)*
- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- The "tokenCode" to be specified in the URL is the identifier of an authorization token generated by the identify or getAll API.
- Recommended timeout: 30s.

Request parameters

No input parameters are required. An empty JSON must be posted.

Response parameters for CHECK_TOKEN responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "CHECK_TOKEN"
status	String	Yes	Can be one of the following: <ul style="list-style-type: none"> • EXPIRED: token has expired and can no longer be used in purchaseFromToken and subscribeFromToken requests. • VALID: token is still valid and can be used in purchaseFromToken and subscribeFromToken requests. • ERROR: an error has occurred in processing this request. Don't make assumptions on the token status in this case.
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. Present only if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. Present only if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. Present only if status is ERROR.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3. Present only if status is VALID.

telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3 Present only if status is VALID.
-------	-------	----	--

13.2. *token/{tokenCode}/invalidate*

This API method allows you to invalidate an authorization token. Once the token is invalidate, you can no longer use it for purchaseFromToken and subscribeFromToken operations.

Interface

- *Endpoint: [https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/token/{tokenCode}/invalidate](https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/token/{tokenCode}/invalidate)*
- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- The "tokenCode" to be specified in the URL is the identifier of an authorization token generated by the identify or getAll API.

Request parameters

No input parameters are required. An empty JSON must be posted.

Response parameters for CHECK_TOKEN responseType

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "INVALIDATE_TOKEN"
status	String	Yes	Can be one of the following: <ul style="list-style-type: none"> • OK: token has been invalidated • ERROR: an error has occurred in invalidating the token
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. Present only if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. Present only if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. Present only if status is ERROR.

14. User API

User/profile and user/extendedProfileFromToken APIs will retrieve information about an account user. Access to these APIs will be granted after a previous agreement with DOCOMODigital and Operator. The availability of profile information depends on Operator capabilities.

14.1. user/profile

This API method allows you to retrieve a set of information about the user's profile.

Interface

- *Endpoint:* `https://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/user/profile`
- The countryCode to be specified in the URL must be a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.
- Recommended timeout: 30s.

Request parameters

Param Name	Type	Mandatory	Param Description
telcoCode	String	Yes	User's phone operators. Refer to the "ONE API coverage" doc for a list of supported telco codes.
msisdn	String	Yes	MSISDN of the target user
requestId	String	No	A unique identifier of the API call generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.

Response parameters

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "FINAL"
status	String	Yes	Can be one of the following: <ul style="list-style-type: none"> • OK: the profile could be retrieved for the given MSISDN and the telcoCode. • ERROR: an error has occurred in processing this request.
profile	Profile	No	The object represents the User Profile. Refer to par. 4.3.8 Present only if status is OK.
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. Present only if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. Present only if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. Present only if status is ERROR.

14.2. user/extendedProfileFromToken

This API method allows you to retrieve an extended set of information about the user's profile.

Interface

- *Endpoint:* `http[s]://api.cashlog.com/mpay-
ws/v2/country/{countryCode}/site/{siteCode}/user/extendedProfileFromToken`
- The `countryCode` to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The `SiteCode` to be specified in the URL is the one assigned to the merchant's site at configuration time.
- Recommended timeout: 30s.

Request parameters

Param Name	Type	Mandatory	Param Description
authToken	String	Yes	Authorization token obtained from a previous call to <code>singlePurchase/identify</code> or <code>subscription/getAll</code> . Calling this API will not update the status of the token If the token is expired an error will be returned
requestId	String	No	A unique identifier of the API call generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMODigital. Maximum length is 250 characters.

Response parameters

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "FINAL"
status	String	Yes	Can be one of the following: <ul style="list-style-type: none"> • OK: the profile could be retrieved for the given MSISDN and the telcoCode. • ERROR: an error has occurred in processing this request.
profile	ExtendedProfile	No	The object represents the ExtendedProfile. Refer to par. 4.3.9. Present only if status is OK.
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. Present only if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. Present only if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. Present only if status is ERROR.

15. Credit API

Recharge the user credit. The availability of this API depend on the Operator, and even when available must be approved by DOCOMO Digital on a case by case basis. The Operator may enforce limits on the maximum amount of credit transactions.

15.1. Credit/credit

15.1.1. Endpoint

POST:

<https://api.cashlog.com/mpay-ws/v2/country/{countryCode}/site/{siteCode}/credit/credit>

- The countryCode to be specified in the URL must be is a ISO 3166 alpha-2 code. This is a two-letters uppercase code. Available codes can be found here: http://www.iso.org/iso/country_codes/iso_3166_code_lists/country_names_and_code_elements.htm
- The SiteCode to be specified in the URL is the one assigned to the merchant's site at configuration time.

15.1.2. Request Parameters

Property	Type	Mandatory	Description
productName	String	Yes	Product name. Depending on the Operator capabilities, this string may be shown during the purchase flow or in the user's invoice. It can differ from the product name used in a purchase or subscribe event.
creditAmount	String	Yes	Amount to be recharged to the user. Use a '.' as the decimal separator. Up to two decimal places are supported (e.g. 2.00).
currencyCode	String	Yes	ISO 4217 alphabetic currency code (letters, uppercase). http://www.currency-iso.org/dam/downloads/lists/list_one.xls
msisdh	String	Yes	MSISDN of the user in international format. Normally not needed, you can pass it if already known. If not present you should pass the alias parameter instead.
alias	String	No	A unique identifier of the user in the operator systems. Mandatory only if MSISDN is not present.
telcoCode	String	Yes	User's phone Operator. Refer to the "ONE API coverage" document for a list of supported telco codes. Normally not needed, you can pass it if already known.
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's returned in the final response, and can be used as a cross reference between the merchant's platform and DOCOMO Digital. Maximum length is 250 characters.
notes	String	No	Optional pass-through parameter that is echoed back in the final response. It's persisted on DOCOMO Digital platform.
customParams	Object	No	An object containing parameters to fine-tune the integration with a specific Operator.

language	String	No	Must be a language tag as defined by https://tools.ietf.org/html/bcp47 . At the moment this parameter affects the locale of SMS messages. This feature is not supported by all Operators. If this parameter is not passed, we're going to send the message in the default language for the country.
messageParams	Object	No	An object containing the value of placeholders defined in the message. This feature is not supported by all Operators.

15.1.3. Response Parameters

Property	Type	Mandatory	Description
responseType	String	Yes	Will be "CREDIT"
status	String	Yes	"CREDITED", "PENDING_NOTIFICATION" or "ERROR"
mainErrorCode	String	No	Identify a group of errors, usually related to a specific action. It's present if status is ERROR.
detailedErrorCode	String	No	Identify a specific error inside of a group related to a specific action. It's present if status is ERROR.
errorDescription	String	No	Human readable description of the error occurred. It's present if status is ERROR.
transactionCode	String	Yes	Unique identifier of the transaction. May not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
requestId	String	No	A unique identifier of the purchase transaction generated by the merchant. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
notes	String	No	Optional pass-through parameter. It's present only if you pass it in the purchase request. Even if passed, may not be present in case of request validation errors (e.g. incorrect media type, syntactically invalid request...)
amountCredited	String	No	It is the actual amount credited to the final user and may differ from the amount passed in input. It's not present in case of credit failure.
userId	UserId	No	The object represents the User identifier on the Telco systems. Refer to par. 4.3
telco	Telco	No	The object represents the operator used during the flow. Refer to par. 4.3

16. ToS and Privacy Statements

All Merchants that will integrate DOCOMO Digital platform through the APIs need to show the Terms of Service and the Privacy Policy of the DOCOMO Digital service, that should be displayed to the end user during the purchase flow. To make easy to share those info, in case of the flow is not a redirection, the DOCOMO Digital Platform makes available a specific URL (based on the country) with the legal statements that the Merchant has to show to the end user:

Terms of service	<a href="http://static.cashlog.com/merchant_api/<country code>_tos.html">http://static.cashlog.com/merchant_api/<country code>_tos.html
Privacy policy	<a href="http://static.cashlog.com/merchant_api/<country code>_privacy.html">http://static.cashlog.com/merchant_api/<country code>_privacy.html

All the documents are shared as HTML code, with basic structure easy to manage and to show in the Merchant web site layout and contain a number of “placeholder”, that must be substituted by the Merchant with its own data. Below the list of the placeholders that you can find inside the HTML code:

Place holder name	TYPE
###!name_merchant!###	Place holder for the Merchant Company Name
###!contact_phone!###	Place holder for the Merchant Customer Care Phone number
###!contact_email!###	Place holder for the Merchant Customer Care Email

To set the values at runtime there are several solutions. The Merchant can update all the placeholders with the values needed using for instance a Javascript, like the one posted below, or any other script used in their site:

Function

```
function substitute() {
    var statements = document.getElementById("PT_privacy").innerHTML;
    statements = statements.replace("###!name_merchant!###", "My Company Name");
    statements = statements.replace("###!phone_contact!###", "+220011231");
    statements = statements.replace("###!contact_email!###", "contactus@email.com");
    document.getElementById("changeMe").innerHTML = statements;
}
```

17. Report API

The report API offers the capability of downloading transaction reports generated by DOCOMO Digital Platform. The API is exposed as Rest Webservice using https protocol and Basic Authentication. Credentials to access the reporting API are the same used to login in the cashlog.com web Portal.

Reports are available one day later the day of the transaction. All reports are in CSV format.

Interface

- *Endpoint: `http[s]://api.cashlog.com/report/cashlog/[MerchantCode]/[DATE_REPORTCODE]`*
- Recommended timeout: 20s

The URL needs to be formatted using the following rules:

- The [MerchantCode] section of the URL must contain the code assigned during the registration on cashlog.com Portal . You can find your MerchantCode in the “My Account” page.
- The [DATE_REPORTCODE] section of the URL hold two different values:
 - DATE: the last day of the transactions included in the report. The Date pattern is: YYYYMMDD.
 - REPORTCODE: refers to the kind of report the Merchant wants to download. About the report codes available, please see par. 17.1

Note: The date and the report code are separated by a “_” in the URL.

Examples:

URL:

```
https://api.cashlog.com/report/cashlog/MyCode231/20120706_R011.csv
```

How to invoke the API , with basic authentication:

```
StringBuilder restURL = new StringBuilder();
HttpRequest restRequest;
HttpWebResponse restResponse;

// build the URL String

restRequest = (HttpRequest)
WebRequest.Create(https://api.cashlog.com/report/cashlog/MyCode231/20120706_R011.csv);

//configure the basic authentication
restRequest.Headers.Add("Authorization", "Basic " +
Convert.ToBase64String(Encoding.ASCII.GetBytes("email:password")));

// use the GetResponse method to obtain a WebResponse object
// for the request casting to an HttpRequest

restResponse = (HttpWebResponse) restRequest.GetResponse();

//use the payload of the response that will contain the .csv file

restResponse.GetResponseStream();
```

The report API will manage basic http errors, below the list of the error status returned from the API:

- 404 – The report is not present
- 401 – Authentication failed
- 500 – Internal error

17.1. List of reports available

Below the list of the batch Reports available for download:

Report Code	Short Description
R011	Contains the full list of all transactions done from the beginning of the month till the report date. All transactions details are shown.
R014	Contains an aggregate view of the transactions done in the current month
R015	Contains an aggregate view of the number of subscribers in/out in the current month

18. Split Billing integration

You can ask DOCOMO Digital team to configure a subscription service for split billing. When this configuration is active, the price of some or all billing events of the subscription will be fragmented into smaller amounts. This has a positive effect on the ARPU, since it allows recovering some money even from users with low credit.

Within the constraints imposed by the operators, it's possible to configure the split billing:

- for the first billing transactions
- for the retry of the first billing transactions (this is mandatory if the first billing purchase is split)
- for renewal transactions
- for renewal retry transactions (this is mandatory if the renewal is split)

The mechanism is totally transparent for you: DOCOMO Digital platform will take care of the fragmentation logic. When split billing is applied and the full price could not be totally billed, you will receive PURCHASE, PURCHASE_RETRY, RENEWAL or RENEWAL notifications with a "billingStatus" "PARTIALLY_BILLED". If during a later transaction the full price is charged, you will receive a further notification with billingStatus "BILLED".

If the Merchant tries to refund a split transaction, the refund of some individual split may fail. Therefore the "price" parameter may contain an amount smaller than the value of the refunded transaction. In this case, you can call the refund API later on to try to refund the missing amount.

For the list of Operators that support split billing refer to the "ONE API coverage" doc.

19. Error codes

- **Main Error Code** : Simple, high-level code that identify a specific action to be executed.
- **Detail Error Code** : Specific, low-level internal code that identifies an error in details.
- **Error Code Description** : Brief Technical description for the detailed error code returned.

mainErrorCode	detailedErrorCode	errorDescription	Notified in notification callback
ERR_0001	ERR_0408	Insufficient prepaid balance	YES ¹
ERR_0002	ERR_0406	Exceeded daily limit	YES ¹
ERR_0003	ERR_0407	Exceeded monthly limit	YES ¹
ERR_0004	ERR_0402	Error, User exceeded Purchase cost limits	YES
	ERR_0410	Exceeded transaction limit	YES
	ERR_0411	Exceeded merchant limit	YES
ERR_0005	ERR_0200	Customer temporary blacklisted	NO
	ERR_0201	User suspended by cc	NO
ERR_0006	ERR_9915	Operator Session/Time expired	YES ¹
	ERR_9920	Temporary Error	YES
ERR_0007	ERR_9999	Generic failure	YES ¹
	ERR_9998	Customer not subscribe	YES
	ERR_9997	Customer not authorized	YES ¹
	ERR_9996	Wrong customer	YES ¹
	ERR_9995	Too many requests for this user	YES
	ERR_9994	Too many requests global	YES
	ERR_0800	Financial Accounting Issue	YES
	ERR_0900	Caring Message not Sent, connection problem	YES
	ERR_0901	Country Unknown, Caring Message not Sent	YES
	ERR_0902	Operator not Found, Caring Message not Sent	YES
	ERR_0903	Operator not Found, Caring Message not Sent	YES
	ERR_0904	Error during persisting Caring Message	YES
	ERR_0905	Technical Error, Caring Message not Sent	YES
	ERR_0401	Error during Rules Evaluation	YES
	ERR_0403	Error during Merchant Rules Evaluation	YES
	ERR_0500	OTP Message not Sent, connection problem	YES
	ERR_0501	Country Unknown, OTP Message not Sent	YES
	ERR_0502	Operator not Found, OTP Message not Sent	YES
ERR_0503	Operator not Found, OTP Message not Sent	YES	

	ERR_0504	Error during persist OTP Message	YES
	ERR_0505	Technical Error, OTP Message not Sent	YES
ERR_0008	ERR_0506	Maximum number of generated OTP achieved	YES
ERR_0010	ERR_0551	Maximum number of OTP retries achieved	YES
	ERR_0553	Maximum number of password retries achieved	YES
ERR_0011	ERR_0102	Error, Merchant Blocked	NO
	ERR_0103	Error, Merchant Deleted	NO
	ERR_0107	Error, Site is deleted or blocked	NO
	ERR_0108	Error, Merchant Blocked or Deleted by Operator	NO
	ERR_0109	Error, Site is in trial	NO
ERR_0012	ERR_0602	Error in retrieving the type of Subscription Frequency	YES
	ERR_0106	Site not opened for billing country	YES
	ERR_0707	Price not available	YES
	ERR_9900	Invalid Input Parameters	YES
	ERR_0100	Invalid Merchant	YES
	ERR_0101	Invalid Site	YES
	ERR_0104	Error, Site linked to Other Merchant	YES
	ERR_0105	Error, Site not linked to Merchant	YES
	ERR_0400	Error during transaction validation	YES
	ERR_0451	Error, price is not Valid	YES
ERR_0013	ERR_0600	Error during Subscription Phase	YES
	ERR_0601	Subscription not found for MSISDN	YES
	ERR_0700	Error during retrieving Authentication for Billing Execution	YES
	ERR_0701	Technical Error during Billing Phase	YES
	ERR_0703	Not Billed	YES
	ERR_0705	Billing Phase Timed Out	YES
	ERR_0702	Fatal Error in Billing Phase	YES
	ERR_0704	Not Billed, no retry possible	YES
	ERR_0706	Not Billed, the MSISDN may be not valid	YES
ERR_0014	ERR_0550	Invalid OTP entered	NO
	ERR_0552	Invalid password	NO
ERR_0015	ERR_0603	Subscription Already Present for the MSISDN	YES
ERR_0016	ERR_0300	OperatorRecognition, Critical Error	NO
	ERR_0301	Operator Recognition, Technical Error	NO
	ERR_0302	Operator Recognition, Operator not Found	NO
	ERR_0404	Error during Operator Rules Evaluation	NO
	ERR_0405	Operator not available	NO

ERR_0017	ERR_0409	Too many days without billing	NO
ERR_0018	ERR_0150	The Refund has not been authorized.	NO
	ERR_0151	The transaction cannot be refunded because is too old.	NO
	ERR_0152	The transaction cannot be refunded because already refunded.	NO
	ERR_0153	The amount to be refunded is not equal to the transaction amount.	NO
	ERR_0154	The Operator does not accept the refund, for invalid request.	NO
	ERR_0155	There is not a transaction for the specified input parameters.	NO
	ERR_0156	The transaction cannot be refund it is not in a compatible status.	NO
	ERR_0157	Refund not enabled for this operator	NO
ERR_0019	ERR_0158	Invalid Promo	NO
	ERR_0159	Expired Promo	NO
	ERR_0160	Promo Already Used	NO
	ERR_0161	Promotion Overlapping	NO
	ERR_0162	Invalid Profile (it's returned only if the operator is Movistar Spain)	NO
ERR_0057	ERR_0127	Operation aborted by user.	NO

¹: Only for subscription, the behavior of the error returned may be different, based on how the service has been configured. For further information contact DOCOMO Digital team.