



CVS Issuer API

Version 3

Revision History				
Date	Version Number	Description	Author	Approved By
5-May-2014	2.9.0	API Creation	Eugene Smal	Eugene Smal
2-July-2014	2.9.0	Added additional information to API	Eugene Smal	Eugene Smal
29-April-2024	3	Revision	L Williams	D Arendse

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General Notes

Why REST?

We crafted the API with REST principles in mind, ensuring that utilizing it is straightforward and uncomplicated. REST serves as a simplistic framework for organizing interactions between independent systems, gaining significant traction since 2005, with most major software providers transitioning to it. The appeal lies in its capability to facilitate interactions with minimal overhead across a wide array of clients, ranging from mobile devices to various websites. While theoretically not confined to the web, REST is predominantly implemented in web contexts and draws inspiration from HTTP. Consequently, wherever HTTP functions, REST can be seamlessly integrated.

Contrarily, the alternative entails constructing relatively intricate conventions atop HTTP, often resulting in the development of entirely new XML-based languages, with SOAP being a prominent example. This approach necessitates acquiring a new set of conventions, while failing to leverage HTTP's full potential.

For more information around REST please visit: [REST API Tutorial](#)

Resources

For each resource defined in the API sections the following fields may be defined

ENDPOINT	Displays the resource endpoint.
METHODS	<p>Tabulates the available HTTP verbs along with the list of parameters that they accept.</p> <p>A bold field in the Request column indicates that it's mandatory</p> <p>A ✓ in the Request column of an operation denotes a field available in the request message.</p> <p>A ✓ in the Response column of an operation denotes its presence in the response payload.</p> <p>GET methods never have a body. All parameters are sent through as part of the URL as query parameters. E.g. {root}/{resource}?parameter=value.</p> <p>POST/PUT methods always have a body. All request parameters are sent through as part of a JSON object in the body. There is one exception to this rule when issuing a coupon. The issueWiCode parameter must be sent through as a query parameter as it does not form part of the resource.</p> <p>DELETE methods don't have query parameters or a body. It only takes in a URL parameter which is the resource id to delete. E.g {root}/{resource}/{id}</p>
DESCRIPTION	Describes the resource.
PARAMETERS	Lists all the parameters accepted by the resource endpoint.

Authentication

All calls to the server must contain the issuing channel credentials (apild,apiPassword) in the header of the message.

These credentials can either be created on the CVS portal by the Channel Owner or by Yoyo.

apild	The application id.	String
apiPassword	The application password hashed with a SHA1 algorithm.	String



Return Types

The Web Service returns JSON objects exclusively.

API Notation

Code (or content closely-related to code) is formatted as follows: `echo 'Hello World';`

Parameters are formatted as follows:

parameterName	Parameter Description.	Parameter Type
---------------	------------------------	----------------

A strict ISO 8601 date format is followed for dates:

In Java a date can be formatted in the ISO 8601 format with the following snippet:

```
SimpleDateFormat dateFormat = new SimpleDateFormat("yyyy-MM-dd'T'HH:mm:ssZ");
```

Monetary Values

Monetary amounts are both accepted and returned in cents.

Paginated Collections

All of the RESTful Web Service calls that return collections accept the following query parameters:

pageSize	The max number of items returned per page.	Integer (Default 20)
pageOffset	Zero-based page offset into the list of all results. (Default 0)	Integer (Default 0)
orderBy	A field by which to order the list (when ordering on the collection is available).	String
orderDirection	The order direction (when ordering on the list is available).	String (Default ASC)

The following fields are returned in a paging object in the response of collection requests:

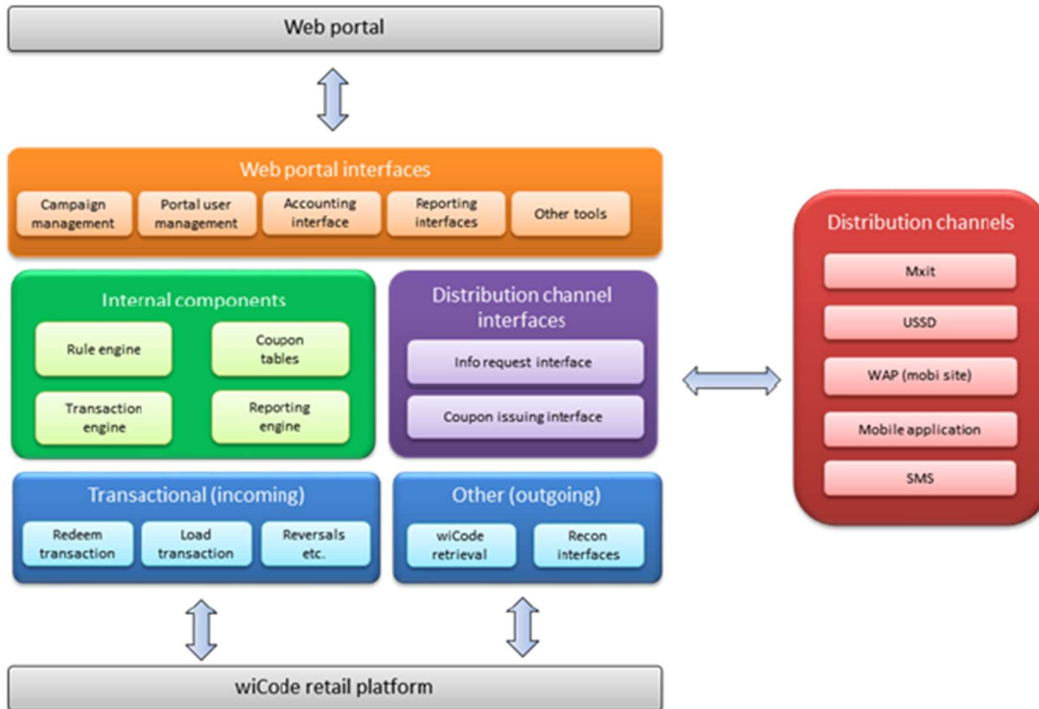
orderBy	The field by which the list was ordered.	String
orderDirection	The order direction.	String (Default ASC)
pageSize	The pageSize utilised during list creation.	Integer
pageOffset	The pageOffset utilised during list creation.	Integer
numItemsOnPage	The number of items returned on the current page.	Integer
numItemsInTotal	Total number of items found for the current set of constraints.	Integer
numPages	The total number of pages found.	Integer



System Overview

The Yoyo Coupon Voucher server (CVS) operates as a sophisticated stored value rule-based engine designed to manage intricate coupon and voucher campaign criteria, including coupon worth, campaign durations, distribution limits, and more. Its core advantage lies in its seamless integration with the wiCode retail platform, enabling instantaneous "switching" of coupon transactions from the point of sale (POS) to the CVS for prompt authorization.

Architecture



The CVS system is a value store system composed of the following internal components:

Rule engine – This is where the campaign rules are located in terms of which SKU's are linked to a campaign, the discount of each, which timeframe the coupon or voucher is valid for etc.

Transaction engine – This is a high performance internal switch which load balances traffic from the incoming transactional interfaces from retail and ensures high performance lookups against the rule engine and coupon tables.

Coupon tables – This is essentially a static configuration of currently "issued" coupons, as well as archives of redeemed coupons for a certain campaign. This is the data store that the reporting engine accesses.

Reporting engine – The reporting engine is a configuration system designed to present data in an elegant way.

This system is extremely configurable in terms of the way raw data may be presented for graphing purposes for example.

Surrounding the "core" are three main API interfaces:

Transaction interface - Indicated in blue in the image above. The transactional interface is the interface on which the YoyoPlatform authorizes transactions.

Issuer (Distribution) interface - The issuer interface is intended for various (mobile) channels to connect to in order to "obtain" a coupon in the form of a wiCode number.

Web portal interface - This interface is intended to be used by the Yoyo CVS portal. It is used to create and report on campaigns.

API

Root Endpoint

The QA root endpoint URL can be found at:

<https://za-vsp-int.wigroup.co/cvs-issuer/rest/application.wadl>

The Production root endpoint URL can be found at:

<https://za-vsp.wigroup.co/cvs-issuer/rest/application.wadl>

The remainder of this section defines the endpoints to this API. Resources are introduced alphabetically.

Categories

/categories

ENDPOINT	{root}/categories																										
DESCRIPTION	Returns a list of the categories linked to a specific issuer channel. Note that categories are sorted alphabetically except for the "All" category which is always the first entry in the list. The list returns all categories which have active campaigns linked to them. The "All" category is always returned even if there are not campaigns linked to it. Categories can be filtered by campaign type.																										
METHODS	<table border="1"> <thead> <tr> <th colspan="4">Available Methods</th> </tr> <tr> <th colspan="4">GET</th> </tr> <tr> <th></th> <th></th> <th>Request</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>campaignType</td> <td></td> <td>✓</td> <td></td> </tr> <tr> <td>Id</td> <td></td> <td></td> <td>✓</td> </tr> <tr> <td>name</td> <td></td> <td></td> <td>✓</td> </tr> </tbody> </table>			Available Methods				GET						Request	Response	campaignType		✓		Id			✓	name			✓
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Coupon Campaigns

/couponcampaigns

ENDPOINT	{root}/couponcampaigns																																																																																										
DESCRIPTION	<p>This request returns a list of active campaigns which are linked to the specific channel (issuer interface). By default only campaigns which still have coupons left to issue will be returned. If no user reference (userRef) is specified in the request it is possible that there are campaigns which the user has already reached the max allowed per user. When the user tries to issue another on the campaign they will be declined. For a better customer experience we recommend including the user reference in the request. This will hide campaigns which the user cannot issue on.</p> <p>A similar problem occurs when the user has reached the max allowed to be issued, but still has a coupon active for redemption. This campaign will not be included in the campaign list. To include these campaigns the includeRedeemableForUser parameter must be set to true.</p> <p>The campaign list can be further restricted by specifying one or more filters.</p>																																																																																										
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name		✓
redeemFromDate		✓
redeemToDate		✓
requireUserRef		✓
termsAndConditions		✓
totalExpired		✓
totalIssued		✓
totalIssuedDaily		✓
totalLive		✓
totalRedeemed		✓
totalViewed		✓

PARAMETERS

adwords	List of adwords linked to the campaign. Adwords are special search key words which when setup against a campaign can be used to filter the campaign.	List<String>
campaignPhase	The phase of the campaign.	TODAY (activated today), CURRENT (all active), PENDING (pending activation)
campaignType	The campaign type.	COUPON, VOUCHER, COUPONVOUCHER
categoryIds	A list of category id's. It will return campaigns which match any of the categories supplied.	List<Long>
merchantId	A merchant id to filter campaigns on.	Integer
retailerId	A retailer id to filter campaigns on.	Integer
longitude	A longitude position. Required for distance calculation. Both longitude and latitude need to be specified together.	Double
latitude	A latitude position. Required for distance calculation. Both longitude and latitude need to be specified together.	Double
userRef	A unique user reference. When specified only campaigns on which the user can still be issued	String

	coupons will be returned.	
includeRedeemableForUser	Whether to include campaigns which the user has unredeemed coupons/voucher, but cannot get anymore issued. Normally the campaign would drop off the list as soon as the user cannot be issued anymore. Must be used in conjunction with the userRef field	BOOLEAN
campaignInfo	List of campaign info details. Each entry consists of a name and value.	Name : The campaign info name. Value : The campaign info value.
categories	List of category details. Each entry consists of an id and description.	Description: The category description. Id: A category id.
createDate	The date the couponCampaign was created.	String
description	The description of the couponCampaign.	String
distance*	The distance to the closest merchant.	Double
id	The id of the couponCampaign.	Integer
imageUrl	The image url of the couponCampaign.	String
issueFromDate	The date from which a couponCampaign is allowed to be issued.	String
issueToDate	The date the couponCampaign is allowed to be issued to.	String
maxAllowedToIssue	The maximum allowed to be issued in total.	Integer
maxAllowedToIssueDaily	The maximum allowed to be issued in total daily.	Integer
maxLivePerUser	The maximum allowed live(issued and not redeemed/expired) per user.	Integer
maxNumberPerUser	The maximum number allowed per user.	Integer
maxRedemptionRuleAmount*	The maximum redemption rule amount.	Integer

minRank	The minimum rank of the couponCampaign.	Integer
name	The name of the couponCampaign.	String
redeemFromDate*	The date the couponCampaign is allowed to be redeemed from.	String
redeemToDate	The date the couponCampaign is allowed to be redeemed to.	String
requireUserRef	True if a userRef is required for couponCampaign.	Boolean
termsAndConditions	The terms and conditions of the couponCampaign.	String
totalExpired	The total number expired of the couponCampaign.	Integer
totalIssued	The total number issued(live + redeemed) of the couponCampaign.	Integer
totalIssuedDaily	The total number issued daily of the couponCampaign.	Integer
totalLive	The total live coupons/voucher on the couponCampaign.	Integer
totalRedeemed	The total number redeemed of the couponCampaign.	Integer
totalViewed	The total number viewed of the couponCampaign.	Integer

/couponcampaigns/{id}

ENDPOINT	{root}/couponcampaigns/{id}																																																																																										
DESCRIPTION	When a specific campaign's details are required rather than pulling the entire campaign list down, this endpoint can be used to retrieve the single campaign's details.																																																																																										
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/couponcampaigns/{id}/skus

ENDPOINT	{root}/couponcampaigns/{id}/skus																			
DESCRIPTION	If the campaign type is COUPON, the campaign will have SKUs linked to it. This endpoint can be used to retrieve the list of SKUs linked to the campaign.																			
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Coupons

/coupons

ENDPOINT	{root}/coupons																																																							
DESCRIPTION	This resource can be used to issue new coupons (coupon/voucher).																																																							
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voucherAmount		✓
redeemedAmount		✓
imageUrl		✓
interfacelssuerId		✓
issuerId		✓
wiCode		✓
stateId		✓

PARAMETERS

issueWiCode	Whether to issue a wiCode linked to the coupon for single redemption. Default it is set to false . This is the only parameter that needs to be sent through as a query parameter and not inside the body.	Boolean
campaignId	The id of the campaign to issue against.	Integer
userRef	A unique user reference as on the issuer channel system. This reference will be used to restrict user limits on campaigns.	String
additonallInfo	Any additional information the channel would like to store against the coupon can be placed in this list. It can then be retrieved by getting the coupon details when needed.	String
serviceProviderId	If the campaign has an Airtime Reward linked to it the channel can provide the airtime service provider id. If no provider id specified, the system will try and issue against the most obvious airtime provider. If it fails it will try all others. Slightly slower than specifying the correct provider upfront.	Integer
id	The id of the coupon.	Integer
campaignName	The name of the campaign.	String
description	A description of the campaign.	String
termsAndConditions	The terms and conditions of the coupon.	String
campaignType	The type of campaign.	COUPON ,VOUCHER
createDate	The create date of the giftcard.	String

redeemFromDate	From which date the coupon can be redeemed.	String
redeemToDate	Until when the coupon is redeemable.	String
redeemedDate	Date on which the coupon was redeemed.	String
expiredDate	The date on which the coupon expired.	String
voucherAmount	The possible coupon redemption amount.	Integer
redeemedAmount	The amount redeemed on the coupon.	Integer
imageUrl	The image url of the coupon.	String
interfacelssuerId	The interface issuer id.	Integer
issuerId	The issuer id.	Integer
wiCode	If issueWiCode was set to true in the request, a wiCode will be issued linked to the coupon for direct redemption.	String
stateId	The current state of the giftcard.	A (Active), D (Deactivated), E (Expired), R (Redeemed)

/coupons/{id}

ENDPOINT	{root}/coupons/{id}																																																																																																		
DESCRIPTION	This resource can be used to retrieve the current coupon information or to expire(DELETE) the coupon and return its funds to the campaign.																																																																																																		
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/user/{userRef}/coupons

ENDPOINT	{root}/user/{userRef}/coupons																																																																												
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Coupon Transactions

/coupontransactions

ENDPOINT	{root}/coupontransactions																																																														
DESCRIPTION	This endpoint can be used to retrieve all coupon related transactions. If no filters are specified it will return all coupon transactions ordered by date.																																																														
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dateTo	The date to which to return transactions.	String
id	The coupon transaction id.	Integer
interfacelssuerId	The id of the interface issuer.	String
issuerId	The id of the issuer.	Integer
merchantId	The merchant id.	Integer
merchantName	The merchant name.	String
processedAmount	The processed amount.	Integer
retailerId	The retailer id.	Integer
retailerName	The retailer name.	String
stateId	The current transaction state.	N (New), P (Processing), F (Failed), SPR (Successful pending recon), S (Successful), RV (Reversed)
transactionDate	The transaction date.	String
reversalDate	The reversal date.	String

/coupontransactions/{id}

ENDPOINT	{root}/coupontransactions/{id}																																																			
DESCRIPTION	This resource returns a specific the coupon transaction.																																																			
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/giftcards

ENDPOINT	{root}/giftcards																																																																																										
DESCRIPTION	<p>This resource is used to issue a giftcard. Depending on how the campaign is setup by the campaign owner, the channel can set the balance and expiry date of the giftcard.</p> <p>Note that the giftcard is not linked to a wiCode. In order to redeem a giftcard, a user token needs to be generated against the giftcard. A giftcard can be redeemed multiple times, and need to get a new wiCode for each redemption.</p>																																																																																										
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numExpiryDays	If allowed by campaign the channel can override the default expiry days. It will still be capped by the default campaign value.	Integer
id	The id of the giftcard.	Integer
campaignName	The name of the campaign.	String
description	A description of the campaign.	String
termsAndConditions	The terms and conditions of the giftcard.	String
campaignType	The type of campaign.	GIFTCARD
createDate	The create date of the giftcard.	String
expiredDate	The date on which the giftcard was expired.	String
expiryDate	The date on which the giftcard will be expired.	String
issuedAmount	The issued amount.	Integer
redeemedAmount	The amount redeemed on the giftcard.	Integer
expiredAmount	The amount expired on the giftcard.	Integer
imageUrl	The image url of the giftcard.	String
interfacelssuerId	The interface issuer id.	Integer
issuerId	The issuer id.	Integer
stateId	The current state of the giftcard.	A (Active), D (Deactivated), E (Expired), R (Redeemed fully)

/giftcards/{id}

ENDPOINT	{root}/giftcards/{id}																																																																	
DESCRIPTION	This resource can be used to retrieve(GET) the giftcard information or to expire(DELETE) the giftcard and return its funds to the campaign.																																																																	
METHODS	<table border="1"> <thead> <tr> <th colspan="5">Available Methods</th> </tr> <tr> <th></th> <th colspan="2">GET</th> <th colspan="2">DELETE</th> </tr> <tr> <th></th> <th>Request</th> <th>Response</th> <th>Request</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>campaignId</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>balance</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>userRef</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>campaignName</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>description</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>termsAndConditions</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>campaignType</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>createDate</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>expiredDate</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> </tbody> </table>	Available Methods						GET		DELETE			Request	Response	Request	Response	id	✓	✓	✓		campaignId		✓			balance		✓			userRef		✓			campaignName		✓			description		✓			termsAndConditions		✓			campaignType		✓			createDate		✓			expiredDate		✓		
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expiryDate		✓		
issuedAmount		✓		
redeemedAmount		✓		
expiredAmount		✓		
imageUrl		✓		
interfacelssuerId		✓		
issuerId		✓		
statelId		✓		

/user/{userRef}/giftcards

ENDPOINT	{root}/user/{userRef}/giftcards																																																																																										
DESCRIPTION	This resource retrieves a list of giftcards linked to a user.																																																																																										
METHODS	<table border="1"> <thead> <tr> <th colspan="4">Available Methods</th> </tr> <tr> <th></th> <th colspan="3">GET</th> </tr> <tr> <th></th> <th>Request</th> <th colspan="2">Response</th> </tr> </thead> <tbody> <tr> <td>userRef</td> <td>✓</td> <td colspan="2">✓</td> </tr> <tr> <td>id</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>campaignId</td> <td>✓</td> <td colspan="2">✓</td> </tr> <tr> <td>balance</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>userRef</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>campaignName</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>description</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>termsAndConditions</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>campaignType</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>createDate</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>expiredDate</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>expiryDate</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>issuedAmount</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>redeemedAmount</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>expiredAmount</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>imageUrl</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>interfacelssuerId</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>issuerId</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>statelId</td> <td>✓</td> <td colspan="2">✓</td> </tr> </tbody> </table>			Available Methods					GET				Request	Response		userRef	✓	✓		id		✓		campaignId	✓	✓		balance		✓		userRef		✓		campaignName		✓		description		✓		termsAndConditions		✓		campaignType		✓		createDate		✓		expiredDate		✓		expiryDate		✓		issuedAmount		✓		redeemedAmount		✓		expiredAmount		✓		imageUrl		✓		interfacelssuerId		✓		issuerId		✓		statelId	✓	✓	
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Giftcard Campaigns

/giftcardcampaigns

ENDPOINT	{root}/giftcardcampaigns																																																																																																						
DESCRIPTION	This endpoint returns all the active giftcard campaigns which can be issued against. A campaign can be issued against if it has the required min float and the user has not yet reached the max allowed per user limit.																																																																																																						
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PARAMETERS																																																																																																							

adwords	List of adwords. If specified it will return all campaigns that include any of the adwords specified. Adwords are key words that can be used to search for the campaign.	List<String>
categoryIds	A list of category id's.	List<Long>
merchantId	A merchant id to filter campaigns on.	Integer
retailerId	A retailer id to filter campaigns on.	Integer
longitude	A longitude position. Required for distance calculation. Both longitude and latitude needs to be specified to calculate the distance.	Double
latitude	A latitude position. Required for distance calculation. Both longitude and latitude needs to be specified to calculate the distance.	Double
userRef	The user reference to filter campaigns for. If the user not allowed anymore coupons it will remove it from the list.	String
includeRedeemableForUser	Whether to include campaigns which the user has unredeemed giftcards, but cannot get anymore issued. Normally the campaign would drop off the list as soon as the user cannot be issued anymore.	BOOLEAN
campaignInfo	List of campaign info details. Each entry consists of a name and value.	Name: The campaign info name. Value: The campaign info value.
categories	List of category details. Each entry consists of an id and description.	Description: The category description. Id: A category id.
createDate	The date the couponCampaign was created.	String
description	The description of the couponCampaign.	String
distance	The distance to the closest merchant.	Double
id	The id of the giftcard campaign.	Integer
imageUrl	The image url of the giftcard campaign.	String
maxLivePerUser	The maximum allowed live(issued and not redeemed/expired) per user.	Integer
maxNumberPerUser	The maximum number allowed per user.	Integer

maxValueAllowedToIssue	The maximum value of a giftcard that can be issued.	Integer
minValueAllowedToIssue	The minimum value of a giftcard that can be issued.	Integer
minRank	The minimum rank of the giftcard campaign.	Integer
name	The name of the giftcard campaign.	String
requireUserRef	True if a userRef is required for giftcard campaign.	Boolean
termsAndConditions	The terms and conditions of the giftcard campaign.	String
totalAmountIssued	The total amount(cent) issued to giftcards.	Integer
totalAmountRedeemed	The total amount(cent) redeemed on campaign.	Integer
totalExpired	The total number of giftcards expired.	Integer
totalIssued	The total number of giftcards issued(live + redeemed).	Integer
totalLive	The total number of live (active) giftcards.	Integer
totalRedeemed	The total number of giftcards redeemed.	Integer

/giftcardcampaigns/{id}

ENDPOINT	{root}/giftcardcampaigns/{id}																																																			
DESCRIPTION	This resource retrieves the specific giftcard campaign.																																																			
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termsAndConditions		✓
totalAmountIssued		✓
totalAmountRedeemed		✓
totalExpired		✓
totalIssued		✓
totalLive		✓
totalRedeemed		✓

Giftcard Transactions

/giftcardtransactions

ENDPOINT	{root}/giftcardtransactions																																																														
DESCRIPTION	This resource returns all the giftcard transactions. When called without filters it returns all giftcard related transactions.																																																														
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	coupon and giftcard transactions together.	
userRef	The user reference to filter on.	String
giftcardId	To filter on specific giftcard.	String
campaignId	Filter transactions for specific campaign.	Integer
dateFrom	The date from which to return transactions.	String
dateTo	The date to which to return transactions.	String
id	The coupon transaction id.	Integer
interfacelssuerId	The id of the interface issuer.	String
issuerId	The id of the issuer.	Integer
merchantId	The merchant id.	Integer
merchantName	The merchant name.	String
processedAmount	The processed amount.	Integer
retailerId	The retailer id.	Integer
retailerName	The retailer name.	String
stateId	The current transaction state.	N (New), P (Processing), F (Failed), SPR (Successful pending recon), S (Successful), RV (Reversed)
transactionDate	The transaction date.	String
reversalDate	The reversal date.	String

/giftcardtransactions/{id}

ENDPOINT	{root}/giftcardtransactions/{id}																																																	
DESCRIPTION	This resource returns a specific the giftcard transaction.																																																	
METHODS	<table border="1"> <thead> <tr> <th colspan="3">Available Methods</th> </tr> <tr> <th></th> <th colspan="2">GET</th> </tr> <tr> <th></th> <th>Request</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>transactionId</td> <td></td> <td>✓</td> </tr> <tr> <td>userRef</td> <td></td> <td>✓</td> </tr> <tr> <td>giftcardId</td> <td></td> <td>✓</td> </tr> <tr> <td>interfacelssuerId</td> <td></td> <td>✓</td> </tr> <tr> <td>issuerId</td> <td></td> <td>✓</td> </tr> <tr> <td>merchantId</td> <td></td> <td>✓</td> </tr> <tr> <td>merchantName</td> <td></td> <td>✓</td> </tr> <tr> <td>processedAmount</td> <td></td> <td>✓</td> </tr> <tr> <td>retailerId</td> <td></td> <td>✓</td> </tr> <tr> <td>retailerName</td> <td></td> <td>✓</td> </tr> <tr> <td>stateId</td> <td></td> <td>✓</td> </tr> <tr> <td>transactionDate</td> <td></td> <td>✓</td> </tr> </tbody> </table>		Available Methods				GET			Request	Response	id	✓	✓	transactionId		✓	userRef		✓	giftcardId		✓	interfacelssuerId		✓	issuerId		✓	merchantId		✓	merchantName		✓	processedAmount		✓	retailerId		✓	retailerName		✓	stateId		✓	transactionDate		✓
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reversalDate		✓
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Merchants

/merchants

ENDPOINT	{root}/merchants																																																																		
DESCRIPTION	This resource denotes the collection of all merchants linked to active campaigns on the channel.																																																																		
METHODS	<table border="1"> <thead> <tr> <th colspan="4">Available Methods</th> </tr> <tr> <th colspan="4">GET</th> </tr> <tr> <th></th> <th>Request</th> <th colspan="2">Response</th> </tr> </thead> <tbody> <tr> <td>id</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>campaignId</td> <td>✓</td> <td colspan="2"></td> </tr> <tr> <td>createDate</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>distance</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>latitude</td> <td>✓</td> <td colspan="2">✓</td> </tr> <tr> <td>longitude</td> <td>✓</td> <td colspan="2">✓</td> </tr> <tr> <td>name</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>provinceDesc</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>provinceId</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>retailerId</td> <td>✓</td> <td colspan="2">✓</td> </tr> <tr> <td>retailerName</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>stateId</td> <td></td> <td colspan="2">✓</td> </tr> <tr> <td>storeNumber</td> <td></td> <td colspan="2">✓</td> </tr> </tbody> </table>			Available Methods				GET					Request	Response		id		✓		campaignId	✓			createDate		✓		distance		✓		latitude	✓	✓		longitude	✓	✓		name		✓		provinceDesc		✓		provinceId		✓		retailerId	✓	✓		retailerName		✓		stateId		✓		storeNumber		✓	
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name	The name of the merchant.	Integer																																																																	
provinceDesc	Description of the merchant province.	String																																																																	

provinceId	The id of the merchant province.	Integer
retailerId	The id of the retailer.	Integer
retailerName	The name of the retailer.	String
stateId	The id of the merchant state.	A (Active), D (Deactivated)
storeNumber	The merchant's own store number if available.	String

Provinces

/provinces

ENDPOINT	{root}/provinces																		
DESCRIPTION	This resource denotes the collection of provinces linked to campaigns currently active on the channel. The province list can be filtered by country should it be required.																		
METHODS	<table border="1"> <thead> <tr> <th colspan="3">Available Methods</th> </tr> <tr> <th colspan="3">GET</th> </tr> <tr> <th></th> <th>Request</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>description</td> <td></td> <td>✓</td> </tr> <tr> <td>countryId</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>id</td> <td></td> <td>✓</td> </tr> </tbody> </table>	Available Methods			GET				Request	Response	description		✓	countryId	✓	✓	id		✓
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PARAMETERS	<table border="1"> <tr> <td>id</td> <td>The province id.</td> <td>Integer</td> </tr> <tr> <td>description</td> <td>Human readable description of the province.</td> <td>String</td> </tr> <tr> <td>countryId</td> <td>A country id.</td> <td>Integer</td> </tr> </table>	id	The province id.	Integer	description	Human readable description of the province.	String	countryId	A country id.	Integer									
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Retailers

/retailers

ENDPOINT	{root}/retailers																											
DESCRIPTION	This resource denotes the collection of retailers linked to campaigns currently active for the channel.																											
METHODS	<table border="1"><thead><tr><th colspan="3">Available Methods</th></tr><tr><th></th><th colspan="2">GET</th></tr><tr><th></th><th>Request</th><th>Response</th></tr></thead><tbody><tr><td>id</td><td></td><td>✓</td></tr><tr><td>campaignId</td><td>✓</td><td></td></tr><tr><td>createDate</td><td></td><td>✓</td></tr><tr><td>description</td><td></td><td>✓</td></tr><tr><td>logoUrl</td><td></td><td>✓</td></tr><tr><td>name</td><td></td><td>✓</td></tr></tbody></table>	Available Methods				GET			Request	Response	id		✓	campaignId	✓		createDate		✓	description		✓	logoUrl		✓	name		✓
Available Methods																												
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description		✓																										
logoUrl		✓																										
name		✓																										
PARAMETERS	<table border="1"><tbody><tr><td>campaignId</td><td>A optional campaign id. If specified it will return a list of retailers linked to the campaign.</td><td>Integer</td></tr><tr><td>createDate</td><td>The date retailer was created.</td><td>String</td></tr><tr><td>description</td><td>Human readable description of the retailer.</td><td>String</td></tr><tr><td>id</td><td>The retailer id.</td><td>Integer</td></tr><tr><td>logoUrl</td><td>The retailer logo Url.</td><td>String</td></tr><tr><td>name</td><td>The retailer name.</td><td>String</td></tr></tbody></table>	campaignId	A optional campaign id. If specified it will return a list of retailers linked to the campaign.	Integer	createDate	The date retailer was created.	String	description	Human readable description of the retailer.	String	id	The retailer id.	Integer	logoUrl	The retailer logo Url.	String	name	The retailer name.	String									
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Service Providers

/serviceproviders

ENDPOINT	{root}/serviceproviders																	
DESCRIPTION	This resource denotes the collection of airtime service providers. These can be used on the issue call when issuing against a coupon campaign with an Airtime Reward linked to it. If not specified the server will try all networks until it finds the network linked to the mobile number.																	
METHODS	<table border="1"><thead><tr><th colspan="3">Available Methods</th></tr><tr><th colspan="3">GET</th></tr><tr><th></th><th>Request</th><th>Response</th></tr></thead><tbody><tr><td>id</td><td></td><td>✓</td></tr><tr><td>description</td><td></td><td>✓</td></tr></tbody></table>			Available Methods			GET				Request	Response	id		✓	description		✓
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GET																		
	Request	Response																
id		✓																
description		✓																
PARAMETERS	<table border="1"><tbody><tr><td>id</td><td>The service provider id.</td><td>Integer</td></tr><tr><td>description</td><td>Human readable description of the airtime service provider.</td><td>String</td></tr></tbody></table>			id	The service provider id.	Integer	description	Human readable description of the airtime service provider.	String									
id	The service provider id.	Integer																
description	Human readable description of the airtime service provider.	String																

Token

/user/{userRef}/token

ENDPOINT	{root}/user/{id}/token																																										
DESCRIPTION	<p>To redeem coupons or giftcards not issued with their own wiCode a user token must be created. This token specifies what must be considered on redemption. The token will be valid for up to 48 hours (today and tomorrow). A token can only be used for one transaction. The data linked to the token can be changed at any stage by recreating the token. A token can also be expired for safety should the user no longer want to transact.</p> <p>To create the token you need to specify what to redeem. There are three lists which define what to redeem. At least one must be specified.</p> <ol style="list-style-type: none"> couponCampaignIds - A list of campaign Ids which during redemption can be issued to the user and redeemed. couponIds - A list of already issued coupon Ids (coupon/voucher) linked to the userRef which must be considered during redemption. giftcardIds - A list of already issued giftcard Ids linked to the userRef which must be considered during redemption. <p>During redemption the system will first redeem against the couponCampaignIds list, then the couponIds, and finally the giftcardIds list. This is so that discounts are redeemed first, then vouchers/coupons issued to the user and then finally it will deduct the remaining value from the giftcards.</p> <p>If the list is not specified the redemption step for that list will be skipped.</p> <p>If you want to redeem against anything in that list rather than specify specific Ids, you can specify the wildcard ["-1"] as the only value in the list.</p> <p>If you want to limit the list, you must specify the specific ids to take into account.</p>																																										
EXAMPLE BODY	<pre data-bbox="456 1136 1268 1478"> { "couponCampaignIds": ["-1"], "couponIds": ["1", "5"], "giftcardIds": ["1"] } </pre> <p data-bbox="456 1507 1365 1604">This will create a token for the user which will on redemption look at the user's basket and then issue coupons/voucher to the user against all campaigns linked to the channel which the user can still issue against. It will also link coupons with ID 1 and 5 for redemption. It will then also link the giftcard with 1.</p>																																										
METHODS	<table border="1" data-bbox="456 1692 1360 1892"> <thead> <tr> <th colspan="7">Available Methods</th> </tr> <tr> <th></th> <th colspan="2">POST</th> <th colspan="2">GET</th> <th colspan="2">DELETE</th> </tr> <tr> <th></th> <th>Request</th> <th>Response</th> <th>Request</th> <th>Response</th> <th>Request</th> <th>Response</th> </tr> </thead> <tbody> <tr> <td>userRef</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> <td></td> </tr> <tr> <td>couponCampaignIds</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> <tr> <td>couponIds</td> <td>✓</td> <td>✓</td> <td></td> <td>✓</td> <td></td> <td></td> </tr> </tbody> </table>	Available Methods								POST		GET		DELETE			Request	Response	Request	Response	Request	Response	userRef	✓	✓	✓	✓	✓		couponCampaignIds	✓	✓		✓			couponIds	✓	✓		✓		
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couponIds	✓	✓		✓																																							

giftcardIds	✓	✓		✓		
campaignType	✓	✓		✓		
wiCode		✓		✓		
createDate		✓		✓		
lastModifiedDate		✓		✓		
validTillDate		✓		✓		
stateId		✓		✓		

PARAMETERS

userRef	The user reference.	String
campaignType	The campaign type to issue against for couponCampaignIds list or couponIds list. Default COUPON. Warning: Think through your solution before setting this to include vouchers.	COUPON, VOUCHER, COUPONVOUCHER
couponCampaignIds	The list of coupon campaign id's which during redemption phase will be issued to the user and redeemed.	Array[String], null if none, ["-1"] if all campaigns
couponIds	The list of coupon id's already issued to the user to redeem if possible.	Array[String], null if none, ["-1"] if all issued against user
giftcardIds	The list of giftcard id's already issued to the user to redeem if possible.	Array[String], null if none, ["-1"] if all issued against user
createDate	The date token was created.	String
validTillDate	The date the wiCode will be valid to. String	
lastModifiedDate	The date last modified.	String
stateId	The state id.	String
wiCode	The wiCode linked to the user token.	String



Transactions

/transactions

ENDPOINT	{root}/transactions																																																																				
DESCRIPTION	This resource denotes the top level transactions. It will indicate how many coupon and giftcard transactions was processed on the transaction.																																																																				
METHODS	<table border="1"><thead><tr><th colspan="3">Available Methods</th></tr><tr><th></th><th colspan="2">GET</th></tr><tr><th></th><th>Request</th><th>Response</th></tr></thead><tbody><tr><td>userRef</td><td>✓</td><td>✓</td></tr><tr><td>wiCode</td><td>✓</td><td>✓</td></tr><tr><td>dateFrom</td><td>✓</td><td></td></tr><tr><td>dateTo</td><td>✓</td><td></td></tr><tr><td>id</td><td></td><td>✓</td></tr><tr><td>interfacelssuerId</td><td></td><td>✓</td></tr><tr><td>issuerId</td><td></td><td>✓</td></tr><tr><td>merchantId</td><td></td><td>✓</td></tr><tr><td>merchantName</td><td></td><td>✓</td></tr><tr><td>numberOfCoupons</td><td></td><td>✓</td></tr><tr><td>numberOfGiftcards</td><td></td><td>✓</td></tr><tr><td>processedAmount</td><td></td><td>✓</td></tr><tr><td>retailerId</td><td></td><td>✓</td></tr><tr><td>retailerName</td><td></td><td>✓</td></tr><tr><td>stateId</td><td></td><td>✓</td></tr><tr><td>totalCouponProcessedAmount</td><td></td><td>✓</td></tr><tr><td>totalGiftcardProcessedAmount</td><td></td><td>✓</td></tr><tr><td>transactionDate</td><td></td><td>✓</td></tr><tr><td>reversalDate</td><td></td><td>✓</td></tr></tbody></table>			Available Methods				GET			Request	Response	userRef	✓	✓	wiCode	✓	✓	dateFrom	✓		dateTo	✓		id		✓	interfacelssuerId		✓	issuerId		✓	merchantId		✓	merchantName		✓	numberOfCoupons		✓	numberOfGiftcards		✓	processedAmount		✓	retailerId		✓	retailerName		✓	stateId		✓	totalCouponProcessedAmount		✓	totalGiftcardProcessedAmount		✓	transactionDate		✓	reversalDate		✓
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numberOfVouchers	The number of vouchers redeemed on transaction.	Integer																																																																			

processedAmount	The total processed amount for all linked coupon and giftcard transactions.	Integer
retailerId	The retailer id.	Integer
retailerName	The retailer name.	String
statelId	The current transaction state.	N (New), P (Processing), F (Failed), SPR (Successful pending recon), S (Successful)
totalCouponProcessedAmount	The total processed amount from coupon redemptions.	Integer
totalGiftcardProcessedAmount	The total processed amount from giftcard redemptions.	Integer
transactionDate	The transaction date.	String
reversalDate	The reversal date.	String

/transactions/{id}

ENDPOINT	{root}/transactions/{id}																																																												
DESCRIPTION	This endpoint will return a specific high level transaction's details.																																																												
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/user/{userRef}/transactions

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Response Codes

Every response contains **responseCode** and **responseDesc** fields. These indicate whether the request was successful or failed. The only successful **responseCode** is denoted by a value of -1 . All other response codes indicate failed requests. The table below denotes all possible response codes.

Response Codes	
Response Code	Response Description
-1	Successful
0001	General System Error
1000	Interface Authentication Failed. Account does not exist.
1001	Interface Authentication Failed. Invalid password.
1002	Interface Authentication Failed. Interface account not activated.
1003	Interface Authentication Failed. Issuer account not activated.
1004	Issuer Webuser Authentication Failed. Account does not exist.
1005	Issuer Webuser Authentication Failed. Invalid password.
1006	Issuer Webuser Authentication Failed. Issuer webuser not activated.
1007	Issuer Webuser Authentication Failed. Issuer webuser not linked to interface issuer.
1008	Interface Authentication Failed. Credentials missing.
1200	Campaign does not exist.
1201	Campaign is not active.
1202	Campaign not yet active for issuing vouchers.
1203	Campaign issuing window closed. No more vouchers can be issued.
1204	Campaign has reached its max available.
1205	The campaign requires an user id to issue voucher to.
1206	Campaign not linked to channel.
1207	Campaign not linked to channel.
1208	No more coupons available.
1209	User has reached the maximum allowed live coupons per user on campaign.
1210	User has reached the maximum allowed coupons per user on campaign.
1211	Campaign is open to selected users only.
1212	There is no SMS account linked. Cannot issue SMS voucher.
1213	No more coupons available for today.
1214	This is not a coupon campaign.
1215	Transaction coupon does not exist.
1216	Coupon does not exist.
1250	Invalid voucher phase specified. Must be LIVE, REDEEMED, or EXPIRED.
1251	Invalid campaign type specified.
1300	No valid wiCodes found.
1301	Could not link voucher infos.
1303	Invalid wiCode.
1304	No vouchers found for User.
1305	Invalid campaign type specified.
1306	Another request issued at the same time. Failing call.
1306	Required field missing
1307	Required field in voucherInfo missing
1308	Coupon does not exist.
1309	Coupon cannot be expired as it has already been redeemed.
1310	Coupon already expired.
1311	You must specify something to redeem.
1312	User does not have a valid token.
1500	Invalid campaign phase specified. Must be CURRENT, TODAY, PENDING.
1501	Invalid campaign type specified.
1550	Latitude and Longitude values are required in order to sort by distance.
1600	Invalid channel group id specified.
7100	This is not a giftcard campaign.



7101	Amount to issue exceeds available float for campaign.
7102	Amount to issue exceeds maximum allowable amount to issue.
7103	Amount to issue is less than minimum allowable amount to issue.
7104	The campaign requires an user id to issue giftcard to.
7105	No more giftcard available.
7106	User has reached the maximum allowed giftcards per user on campaign.
7107	Giftcard does not exist.
7108	Giftcards cannot be issued with SMS.
7109	The campaign does not allow channel to specify expiry days.
7110	The campaign does not allow the requested expiry days.
7111	Amount to issue invalid.