CVS Issuer API

v2.9.0

Revision History

Revision History

Date	Version Number	Description	Authors	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

General Notes

Why REST?

We designed the API using REST principles, so that your consumption of it is simple and straightforward.

REST is a simple way to organize interactions between independent systems. It's been growing in popularity since 2005 and most major software providers have switched to REST. This is due to the fact that REST allows you to interact with minimal overhead with clients as diverse as mobile phones and other websites. In theory, REST is not tied to the web, but it's almost always implemented as such, and was inspired by HTTP. As a result, REST can be used wherever HTTP can.

The alternative is building relatively complex conventions on top of HTTP. Often, this takes the shape of entire new XML-based languages. The most illustrious example is SOAP. You have to learn a completely new set of conventions, but you never use HTTP to its fullest power.

For more information around REST please visit: REST API Tutorial

Resources

Resources are represented in plural form.

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

ENDPOINT

Displays the resource endpoint.

METHODS

Tabulates the available HTTP verbs along with the list of parameters that they accept.

A **bold** field in the Request column indicates that it's mandatory

A ✓ in the Request column of an operation denotes a field available in the request message.

A ✓ in the Response column of an operation denotes its presence in the response payload.

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`.

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.

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}`

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 (apiId,apiPassword) in the header of the message. These credentials can either be created on the CVS portal by the Channel Owner or by wiGroup.

apiId

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

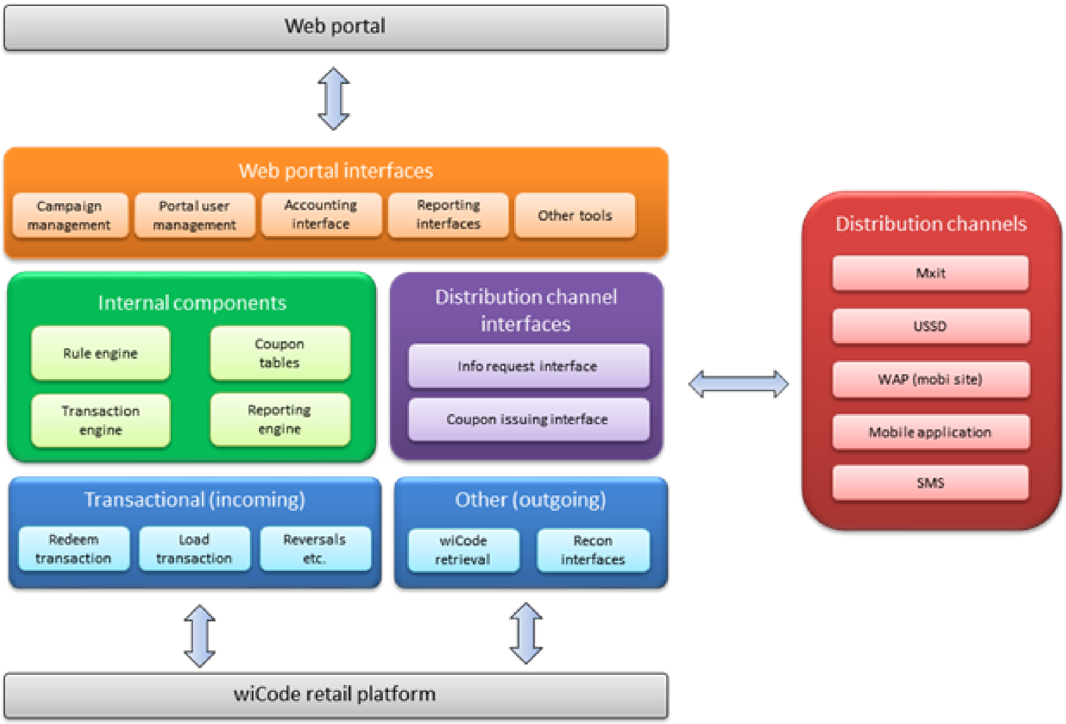
The total number of pages found.

Integer

System Overview

The wiGroup Coupon Voucher server (CVS) is a stored value rule based engine capable of storing complex coupon and voucher campaign logic such as coupon value, campaign timelines, distribution caps etc. The value proposition of the CVS is heavily based on the real-time transactional interfaces accessed by the wiCode retail platform in order to "switch" coupon transactions from the POS in real-time to the CVS for authorisation.

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 wiPlatform 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 wiGroup CVS portal. It is used to create and report on campaigns.

API

Root Endpoint

The QA root endpoint URL can be found at:

`http://qa.wigroup.co:8080/cvs-issuer-generic/rest/application.wadl`

The Production root endpoint URL can be found at:

`http://core.wigroup.co:8080/CvsIssuer/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

Available Methods

	GET	
	Request	**Response**
campaignType	✓	
id		✓
name		✓

PARAMETERS

campaignType

Campaign type filter.

VOUCHER, COUPON, COUPONVOUCHER, GIFTCARD

id

A category id.

Long

name

Human readable description of the category.

String

Coupon Campaigns

/couponcampaigns

ENDPOINT

`{root}/couponcampaigns`

DESCRIPTION

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.

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.

The campaign list can be further restricted by specifying one or more filters.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	✓
adwords	✓	
campaignPhase	✓	
campaignType	✓	✓
categoryIds	✓	
merchantId	✓	
provinceId	✓	
countryId	✓	
retailerId	✓	
longitude	✓	
latitude	✓	
userRef	✓	
includeRedeemableForUser	✓	
campaignInfo		✓
categories		✓
createDate		✓
description		✓
distance		✓
imageUrl		✓
issueFromDate		✓
issueToDate		✓
maxAllowedToIssue		✓
maxAllowedToIssueDaily		✓
maxLivePerUser		✓
maxNumberPerUser		✓
maxRedemptionRuleAmount		✓
minRank		✓
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 coupons will be returned.

String

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 conjuction with the userRef field

BOOLEAN

campaignInfo

List of campaign info details. Each entry consists of a name and value.

name

The campaign info name.

String

value

The campaign info value.

String

categories

List of category details. Each entry consists of an id and description.

description

The category description.

String

id

A category id.

Long

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.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	✓
campaignType		✓
campaignInfo		✓
categories		✓
createDate		✓
description		✓
distance		✓

imageUrl	✓
issueFromDate	✓
issueToDate	✓
maxAllowedToIssue	✓
maxAllowedToIssueDaily	✓
maxLivePerUser	✓
maxNumberPerUser	✓
maxRedemptionRuleAmount	✓
minRank	✓
name	✓
redeemFromDate	✓
redeemToDate	✓
requireUserRef	✓
termsAndConditions	✓
totalExpired	✓
totalIssued	✓
totalIssuedDaily	✓
totalLive	✓
totalRedeemed	✓
totalViewed	✓

/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.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	
skus		✓

PARAMETERS

id

The campaign id.

Integer

brand

The sku brand.

String

product

The sku product.

String

size

The sku size.

String

sku

The SKU.

String

value

The product estimated retail price.

Integer

Coupons

/coupons

ENDPOINT

`{root}/coupons`

DESCRIPTION

This resource can be used to issue new coupons (coupon/voucher).

METHODS

Available Methods

	POST	
	Request	**Response**
issueWiCode (query parameter)	✓	
campaignId	✓	✓
userRef	✓	✓
additionalInfo	✓	✓
serviceProviderId	✓	✓
id		✓
campaignName		✓
description		✓
termsAndConditions		✓
campaignType		✓
createDate		✓
redeemFromDate		✓
redeemToDate		✓
redeemedDate		✓
expiredDate		✓
voucherAmount		✓
redeemedAmount		✓
imageUrl		✓
interfaceIssuerId		✓
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

additonalInfo

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 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

interfaceIssuerId

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.

METHODS

Available Methods

	GET		DELETE	
	Request	**Response**	**Request**	**Response**
id	✓	✓	✓	
campaignName		✓		
description		✓		
termsAndConditions		✓		
campaignType		✓		
createDate		✓		
redeemFromDate		✓		
redeemToDate		✓		
redeemedDate		✓		
expiredDate		✓		
voucherAmount		✓		
redeemedAmount		✓		
imageUrl		✓		
interfaceIssuerId		✓		
issuerId		✓		
wiCode		✓		
stateId		✓		

/user/{userRef}/coupons

ENDPOINT

`{root}/user/{userRef}/coupons`

DESCRIPTION

This resource can be used to retrieve a list of coupons linked to a specific user.

METHODS

Available Methods

	GET	
	Request	**Response**
userRef	✓	✓
campaignId		✓
userRef		✓
additionalInfo		✓
serviceProviderId		✓
id		✓
campaignName		✓
description		✓
termsAndConditions		✓
campaignType		✓
createDate		✓
redeemFromDate		✓
redeemToDate		✓
redeemedDate		✓
expiredDate		✓
voucherAmount		✓
redeemedAmount		✓
imageUrl		✓
interfaceIssuerId		✓
issuerId		✓
wiCode		✓
stateId		✓

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.

METHODS

Available Methods

	GET	
	Request	**Response**
campaignId	✓	
dateFrom	✓	
dateTo	✓	
transactionId	✓	✓
userRef	✓	✓
couponId	✓	✓
id		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
processedAmount		✓
retailerId		✓
retailerName		✓

stateId	✓
transactionDate	✓
reversalDate	✓

PARAMETERS

transactionId

The top level transaction id. All transactions are linked to a high level transaction. The high level transaction groups multiple coupon transactions as well as gift card transactions.

Integer

userRef

If the user reference is specified on transactions linked to the user will be returned.

String

couponId

To filter on specific coupon Id

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

interfaceIssuerId

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.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	✓
transactionId		✓
userRef		✓
couponId		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
processedAmount		✓
retailerId		✓
retailerName		✓
stateId		✓
transactionDate		✓
reversalDate		✓

Giftcards

/giftcards

ENDPOINT

`{root}/giftcards`

DESCRIPTION

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.

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.

METHODS

Available Methods

	POST	
	Request	**Response**
campaignId	✓	✓

balance	✓	✓
userRef	✓	✓
numExpiryDays	✓	✓
id		✓
campaignName		✓
description		✓
termsAndConditions		✓
campaignType		✓
createDate		✓
expiredDate		✓
expiryDate		✓
issuedAmount		✓
redeemedAmount		✓
expiredAmount		✓
imageUrl		✓
interfaceIssuerId		✓
issuerId		✓
stateId		✓

PARAMETERS

campaignId

The id of the campaign to issue against.

Integer

balance

The amount to issue on giftcard. The balance needs to be within the min and max boundaries of the campaign and the campaign must have the required float available.

Integer

userRef

The user reference to issue the giftcard against.

String

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

interfaceIssuerId

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

Available Methods

	GET		DELETE	
	Request	**Response**	**Request**	**Response**
id	✓	✓	✓	
campaignId		✓		
balance		✓		
userRef		✓		
campaignName		✓		
description		✓		
termsAndConditions		✓		
campaignType		✓		
createDate		✓		

expiredDate		✓
expiryDate		✓
issuedAmount		✓
redeemedAmount		✓
expiredAmount		✓
imageUrl		✓
interfaceIssuerId		✓
issuerId		✓
stateId		✓

/user/{userRef}/giftcards

ENDPOINT

`{root}/user/{userRef}/giftcards`

DESCRIPTION

This resource retrieves a list of giftcards linked to a user.

METHODS

Available Methods

	GET	
	Request	**Response**
userRef	✓	✓
id		✓
campaignId	✓	✓
balance		✓
userRef		✓
campaignName		✓
description		✓
termsAndConditions		✓
campaignType		✓
createDate		✓
expiredDate		✓
expiryDate		✓
issuedAmount		✓
redeemedAmount		✓
expiredAmount		✓
imageUrl		✓
interfaceIssuerId		✓
issuerId		✓
stateId	✓	✓

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.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	✓
adwords	✓	
categoryIds	✓	
merchantId	✓	
provinceId	✓	
countryId	✓	
retailerId	✓	
longitude	✓	
latitude	✓	
userRef	✓	
includeRedeemableForUser	✓	
campaignInfo		✓
categories		✓
createDate		✓
description		✓
distance		✓
imageUrl		✓
maxLivePerUser		✓
maxNumberPerUser		✓
maxValueAllowedToIssue		✓
minRank		✓
minValueAllowedToIssue		✓
name		✓
requireUserRef		✓
termsAndConditions		✓
totalAmountIssued		✓
totalAmountRedeemed		✓
totalExpired		✓
totalIssued		✓
totalLive		✓
totalRedeemed		✓

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.

String

value

The campaign info value.

String

categories

List of category details. Each entry consists of an id and description.

description

The category description.

String

id

A category id.

Long

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.

METHODS

Available Methods

GET

Request **Response**

id	✓	✓
campaignInfo		✓
categories		✓
createDate		✓
description		✓
distance		✓
imageUrl		✓
maxLivePerUser		✓
maxNumberPerUser		✓
maxValueAllowedToIssue		✓
minRank		✓
minValueAllowedToIssue		✓
name		✓
requireUserRef		✓
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.

METHODS

Available Methods

	GET	
	Request	**Response**
campaignId	✓	
dateFrom	✓	
dateTo	✓	
transactionId	✓	✓
userRef	✓	✓
giftcardId	✓	✓
id		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
processedAmount		✓
retailerId		✓
retailerName		✓
stateId		✓
transactionDate		✓

reversalDate	✓

PARAMETERS

transactionId

The top level transaction id. Each transaction has a high level transaction which groups one or more coupon and giftcard transactions together.

Integer

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

interfaceIssuerId

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

Available Methods

	GET	
	Request	**Response**
id	✓	✓
transactionId		✓
userRef		✓
giftcardId		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
processedAmount		✓
retailerId		✓
retailerName		✓
stateId		✓
transactionDate		✓
reversalDate		✓

Merchants

/merchants

ENDPOINT

`{root}/merchants`

DESCRIPTION

This resource denotes the collection of all merchants linked to active campaigns on the channel.

METHODS

Available Methods

	GET	
	Request	**Response**
id		✓
campaignId	✓	
createDate		✓
distance		✓
latitude	✓	✓
longitude	✓	✓
name		✓
provinceDesc		✓

provinceId		✓
retailerId	✓	✓
retailerName		✓
stateId		✓
storeNumber		✓

PARAMETERS

id

The id of the merchant.

Integer

campaignId

Filter merchant list for specific campaign.

Integer

createDate

The date merchant created.

String

distance

The distance from merchant if GPS coordinates specified.

Double

latitude

A latitude position. Both longitude and latitude needs to be specified together.

Double

longitude

A longitude position. Both longitude and latitude needs to be specified together.

Double

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

Available Methods

	GET	
	Request	**Response**
description		✓
countryId	✓	✓
id		✓

PARAMETERS

id

The province id.

Integer

description

Human readable description of the province.

String

countryId

A country id.

Integer

Retailers

/retailers

ENDPOINT

`{root}/retailers`

DESCRIPTION

This resource denotes the collection of retailers linked to campaigns currently active for the channel.

METHODS

Available Methods

	GET	
	Request	**Response**
id		✓
campaignId	✓	
createDate		✓
description		✓
logoUrl		✓
name		✓

PARAMETERS

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

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

Available Methods

	GET	
	Request	**Response**
id		✓
description		✓

PARAMETERS

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

To redeem coupons or giftcards not issued with their own wiCode a user token must be created. This token specifies what must 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.

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.

1. **couponCampaignIds** – A list of campaign Ids which during redemption can be issued to the user and redeemed.
2. **couponIds** – A list of already issued coupon Ids (coupon/voucher) linked to the userRef which must be considered during redemption.
3. **giftcardIds** – A list of already issued giftcard Ids linked to the userRef which must be considered during redemption.

During redemption the system will first redeem against the couponCampaignIds list, then the couponIds, and finaly 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.

If the list is not specified the redemption step for that list will be skipped.
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.
If you want to limit the list, you must specify the specific ids to take into account.

EXAMPLE BODY

```
{
   "couponCampaignIds": [
      "-1"
   ],
   "couponIds": [
      "1",
      "5"
   ],
   "giftcardIds": [
      "1"
   ]
}
```

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.

METHODS

Available Methods

	POST		GET		DELETE	
	Request	**Response**	**Request**	**Response**	**Request**	**Response**
userRef	✓	✓	✓	✓	✓	
couponCampaignIds	✓	✓		✓		
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

Available Methods

	GET	
	Request	**Response**
userRef	✓	✓
wiCode	✓	✓
dateFrom	✓	
dateTo	✓	
id		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓

merchantName	✓
numberOfCoupons	✓
numberOfGiftcards	✓
processedAmount	✓
retailerId	✓
retailerName	✓
stateId	✓
totalCouponProcessedAmount	✓
totalGiftcardProcessedAmount	✓
transactionDate	✓
reversalDate	✓

PARAMETERS

userRef

The user reference to filter on.

String

wiCode

To filter transaction on specific wiCode

String

dateFrom

The date from which to return transactions.

String

dateTo

The date to which to return transactions.

String

id

The transaction id.

Integer

interfaceIssuerId

The id of the interface issuer.

String

issuerId

The id of the issuer.

Integer

merchantId

The merchant id.

Integer

merchantName

The merchant name.

String

numberOfGiftcards

The number of giftcards redeemed on transaction.

Integer

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

stateId

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.

METHODS

Available Methods

	GET	
	Request	**Response**
id	✓	✓
userRef		✓
wiCode		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
numberOfCoupons		✓
numberOfGiftcards		✓
processedAmount		✓
retailerId		✓
retailerName		✓
stateId		✓
totalCouponProcessedAmount		✓
totalGiftcardProcessedAmount		✓
transactionDate		✓
reversalDate		✓

/user/{userRef}/transactions

ENDPOINT

`{root}/user/{userRef}/transactions`

DESCRIPTION

This resource denotes the top level transactions for a specific user. It will indicate how many coupon and giftcard transactions was processed on the transaction.

METHODS

Available Methods

	GET	
	Request	**Response**
userRef	✓	✓
wiCode	✓	✓
dateFrom	✓	
dateTo	✓	
id		✓
interfaceIssuerId		✓
issuerId		✓
merchantId		✓
merchantName		✓
numberOfCoupons		✓
numberOfGiftcards		✓
processedAmount		✓
retailerId		✓
retailerName		✓
stateId		✓
totalCouponProcessedAmount		✓
totalGiftcardProcessedAmount		✓
transactionDate		✓
reversalDate		✓

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 belows 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.