

Wallet, POS, and Portal APIs supported  
by the Cortex Platform

# Cortex MCP APIs

FSP Technologies, Inc.

Rev. 1.2 - Latest, 06/2021

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# Cortex MCP

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## Revision History

Rev	Date	Comments
1.0	1/29/2018	Document created as merge and formatting of old Wallet and Portals APIs. OVERfile functions still need to be added and new Campaign/Deal/Offer structure verified.
1.1	4/25/2018	Adding funding source related calls and sample data for request/response.
1.2	6/15/2018	Adjustments in portal API.

## TABLE OF CONTENTS

---

WALLET API: Login, Boarding and Administrative .....	7
deleteUserAccount.....	8
editUserAccount .....	9
login.....	10
logout.....	11
suspendUserAccount .....	12
validatePin.....	13
WALLET API: RCD Functions .....	14
editRcd .....	15
generateRcd.....	16
getAllTransactionsByCategory .....	17
getAllTransactionsByDateRange .....	19
getAllTransactionsByMerchant.....	20
getAllTransactionsBySearch.....	21
getFundingSources .....	22
getFundingSourceTypes .....	23
getMerchantCatalogByCategory.....	24
getMerchantCategories.....	25
getPurchaseByInvoice .....	26
getPurchasesByRcd .....	27
getPurchaseByTransaction .....	28
getRcds.....	29
getTransactionById .....	31
getTransactionsByCategory .....	32
getTransactionsByDateRange .....	33
getTransactionsByMerchant.....	34
getTransactionsBySearch .....	35
giftRcd .....	36
getGiftedPendingRcds .....	37
acceptRcdGift .....	38
verifyRcd .....	39
getRcdDataForVerification.....	40
refillRcd .....	41

WALLET API: Intent-to-spend analytics .....	42
queryOpenOffers .....	43
tagOffer .....	44
WALLET API: OVERfile .....	45
getCredentialTypesFromServer .....	46
getIssuersByCategoryId.....	47
POS API .....	48
posExecuteTransaction.....	49
posLogin.....	50
posLogout.....	51
posQueryOffers .....	52
PORTAL SERVICES API .....	53
campaignPoolSize .....	54
createCampaign .....	55
editCampaign .....	56
createDeal.....	57
editDeal.....	59
createGroup .....	60
createMerchantAccount .....	61
createTerminal .....	62
editTerminal.....	63
deleteTerminal .....	64
createOrganization .....	66
createLicensee .....	67
editLicensee.....	68
createUserAccount.....	68
getCampaignByUuid.....	71
deactivateCampaign .....	72
activateCampaign .....	73
deactivateCustomerPhone.....	74
deactivateCustomerRcd.....	75
activateCustomerRcd.....	76
deactivateDeal .....	77
activateDeal .....	78
deleteFundingSource .....	79
deleteUserAccount.....	80

editGroup .....	81
editMerchantAccount .....	82
editOrganization .....	83
editUserAccount .....	84
getCustomerOffers .....	85
getAllTransactionsByDateRange .....	86
getAllTransactionsByCategory .....	87
getAllTransactionsByMerchant.....	88
getAllTransactionsBySearch.....	89
getCampaigns.....	90
getCampaignSummary .....	91
getCustomerPhones .....	92
getCustomerRclds.....	93
getDealsByCampaign .....	95
getDealById.....	96
getGlobalTransactionSummaryByCategory .....	98
getGlobalTransactionsByCategory.....	99
getGlobalTransactionsByDateRange.....	100
getGlobalTransactionSummaryByDateRange .....	101
getGlobalTransactionSummaryByRange.....	102
getGroupReport .....	103
getGroups.....	105
getGroupTransactionsByCategory .....	106
getGroupTransactionsByDateRange .....	107
getGlobalTransactionsByRange .....	108
getGroupTransactionsByRange.....	109
getGroupTransactionSummaryByCategory .....	110
getGroupTransactionSummaryByDateRange .....	111
getGroupTransactionSummaryByRange.....	112
getLastLoginMetrics .....	113
getLicensees.....	114
getLicenseeReport .....	115
getLicenseeTransactionsByCategory .....	117
getLicenseeTransactionsByDateRange .....	118
getLicenseeTransactionsByRange.....	119
getLicenseeTransactionSummaryByCategory .....	120

getLicenseeTransactionSummaryByDateRange .....	121
getGlobalTransactionSummaryByDay .....	122
getLicenseeTransactionSummaryByDay.....	123
getLicenseeTransactionSummaryByRange.....	124
getTerminal.....	125
getMerchantReport .....	126
getMerchants.....	128
getMerchantTransactionsByCategory .....	129
getMerchantTransactionsByDateRange .....	130
getMerchantTransactionsByRange.....	131
getMerchantTransactionSummaryByCategory .....	132
getMerchantTransactionSummaryByDateRange .....	133
getMerchantTransactionSummaryByDay.....	134
getGlobalRcdSummaryByDay .....	135
getLicenseeRcdSummaryByDay.....	136
getMerchantTransactionSummaryByRange.....	137
getOffersByDeal .....	138
getOffersByRcd.....	139
getOrganizationTransactionsByCategory .....	140
getOrganizationTransactionsByDateRange .....	141
getOrganizationTransactionSummaryByCategory .....	142
getOrganizationTransactionSummaryByDay.....	143
getGroupTransactionSummaryByDay.....	144
getOrganizationTransactionSummaryByDateRange .....	145
getOrganizationReport.....	146
getOrganizations.....	148
getOrganizationTransactionsByRange.....	149
getOrganizationTransactionSummaryByRange.....	150
getTerminalReport .....	151
getTerminals .....	152
getTerminalTransactionsByCategory.....	153
getTerminalTransactionsByDateRange .....	154
getTerminalTransactionsByRange.....	155
getTerminalTransactionSummaryByCategory .....	156
getTerminalTransactionSummaryByDateRange .....	157
getTerminalTransactionSummaryByRange.....	158

getTransactionsByCategory ..... 159  
getTransactionsByDateRange ..... 160  
getTransactionsByMerchant..... 161  
getTransactionsBySearch ..... 162  
getUserAccount ..... 163  
launchOffers..... 165  
linkRcdDeal ..... 166  
searchDealPool ..... 167  
suspendUserAccount ..... 168  
createFundingSource..... 169  
editFundingSource..... 170

## WALLET API: LOGIN, BOARDING AND ADMINISTRATIVE

---

With the exception of the login and logout calls, in *most* cases, these administrative functions will now be handled through the various Cortex Web Portals. In the future, however, some of the following functions currently may also be invoked from the web-application itself as appropriate for any account management that happens within the context of the application itself.

---



## deleteUserAccount

---

Marks a user (customer) account as deleted, erases RCDs and OVERfiles from the system, invalidates future logins.

### Request

```
DELETE /administrative/user/{uuid} HTTP/1.1
Host: https:// cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

## editUserAccount

---

Modify password, fullname or email for a user (customer).

### Request

```
POST /administrative/editUser/{userUuid} HTTP/1.1
Host: https:// cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  oldPasswordHash:
    "3d588b2d895407b2f3286c410a01e77f199f406bb1c5ebd03c8fb18a75031a52",
  newPasswordHash:
    "ceefa7746d76797fde8a3ab7616c67d213d64d010c8f8e780d2fe650975a0d4f",
  fullname:"Dr. Michael D. Arner",
  email:"marner@cortexmcp.com"
}
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

Functionality should be invoked on application backend also on first Application

## login

---

Given user (customer) credentials, returns a valid Session token (globally-unique identifier) to be included in future calls.

### Request

```
POST /server/session HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <username:password>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
  "success": true,
  "sessionId": "221020EC-AE3A-1690-AD2D-008039D002B3"
  "userId": "221020EC-AE3A-1690-AD2D-008039D002A4"
  "accessLevel": 32
}
```

### Notes

This was originally defined as a GET—changing since generation of a sessionId is technically a “side effect.” Authorization makes colon character (:) an illegal character for usernames.

## logout

---

Closes user (customer) session, marking that session token invalid for future logins.

### Request

```
POST /server/closeSession/{sessionId} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionId>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

## suspendUserAccount

---

Marks a user (customer) account as suspended: all data retained but login will not succeed until account is reactivated.

### Request

```
POST /administrative/suspendUser/{uuid} HTTP/1.1
Host: https://localhost:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

## validatePin

---

Not part of the regular login flow, this function is meant to provide ability to verify that a PIN is correct on the serverside (i.e. if the phone was lost and RCDs need to be recovered).

### Request

```
GET /server/validatePin HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid: hash of PIN and TerminalId and Password>
```

### Response

```
HTTP/1.1 205 Reset Content
```

### Notes

Hash of PIN and TerminalId is SHA-256 – and stored in database only as hashed.  
(not using bcrypt because hash occurs on clientside)

## WALLET API: RCD FUNCTIONS

---

This section includes all functions associated with creating, viewing, editing RCDs within a user's consumer application.

Note on Transaction Search nomenclature:

`getTransactionsByCriteria` returns transaction lists for a single RCD

`getAllTransactionsByCriteria` returns transaction lists for all RCDs for a single user.

Purchase, not yet implemented, represents an umbrella category which can link a number of distinct RCD transactions to a single merchant-invoice.

---

## editRcd

---

Change attributes on an existing RCD (except amount and funding source: for that, use refillRcd).

### Request

```
POST /server/editRcd/{rcdUuid} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  rcdUuid:"21020EC2-E3AA-6910-2ADE-139D002B1803",
  canRefill: true,
  canAcceptOffers: true,
  keywords: ["Stereo", "5-Disc"],
  name: "my small card",
  canEditRules: true,
  expiration: "2016-04-15T00:00Z",
  maxTxPerDay: 3,
  maxTxAmount:50,
  merchantCategories: [5814, ...],
  merchants: ["320E610C-AE3A-2620-B981-08039D002B30",...],
  locations: [
    {
      address:"350 5th Ave",
      city:"New York",
      state:"NY",
      zipPostalCode:"10118",
      country:"United States"
    }
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

must verify sessionUuid is correct for userUuid



## generateRcd

---

Create a new RCD.

### Request

```
POST /server/generateRcd HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  fundingSourceUuid: "38400000-8cf0-11bd-b23e-10b96e4ef00d",
  canRefill: true,
  canAcceptOffers: true,
  keywords: ["Stereo", "5-Disc"],
  rcdApp: "22CCCCDDDDDEEEEFZFZ44",
  rcdAppVersion:"1.0"
  pinPositions: "3:5:14:15"
  name: "my small card",
  balance: {currency: "USD", amount:200.00},
  canEditRules: true,
  expiration: "2016-04-15T00:00Z",
  maxTxPerDay: 3,
  maxTxAmount:50,
  merchantCategories: [5814, ...],
  merchants: ["320E610C-AE3A-2620-B981-08039D002B30",...],
  locations: [
    {
      address:"350 5th Ave",
      city:"New York",
      state:"NY",
      zipPostalCode:"10118",
      country:"United States"
    }
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success: true,
  rcdUuid:"21020EC2-E3AA-6910-2ADE-139D002B1803",
  rcdidiff:"00-0A0F-1101-Z3W2-TR3G-F4",
  base:36,
  token:"886/hDe2vcsJDNxLjC2KPA=="
}
```

### Notes

must verify sessionId is correct for userId

---

### getAllTransactionsByCategory

---

Return all transactions for a given user (customer) matching an mcc or cortex code.

#### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionId>
```

#### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

#### Notes

To get all transactions for a specific RCD (not all for a whole customer), use `getTransactionsByCategory()`.



## getAllTransactionsByDateRange

---

Return a list of transactions for a user (not just one RCD) within a specific datetime range.

### Request

```
GET /server/transactions?
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get a list of transactions within a specific datetime range for a specific RCD, use `getTransactionsByDateRange()`.

## getAllTransactionsByMerchant

---

Return a list of information for all transactions a user (consumer) conducted with a particular merchant (searching by name) since the given date.

### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  merchant={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionId:"D1E605F2-72A1-3393-DF79-29EFD3200047"
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount:{currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get transactions by Merchant for a specific RCD only, user `getTransactionsByMerchant()`.

## getAllTransactionsBySearch

---

Get all transactions for a user (not just a single RCD) since a given start date, matching an optional search-string.

### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

Formerly, this was called `getTransactionsByRange()`

## getFundingSources

---

Return a list of information for all valid RCD funding sources.

### Request

GET /server/fundingsources HTTP/1.1  
Host: https://cortexmcp.com:8080  
Content-Type: application/json; charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
  fundingSources: [
    {
      name: "USAA Checking Account",
      fundingSourceUuid: "A2F514B6-62D4-820F-E116-329EFD215647",
      fundingSourceType: "CheckingAccount"
    },
    {etc}
  ]
}
```

### Notes

All funding sources associated with this account (from sessionUuid)

## getFundingSourceTypes

---

Returns a list of (friendly-names for) valid Funding Source Types

### Request

```
GET /server/fundingsourcetypes HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  sourcetypes: ["CheckingAccount", "CreditCard", "DebitCard", "PayPal"]
}
```



## getMerchantCatalogByCategory

---

Returns a list of all Merchants with a specified category (either MCC or custom-Cortex code)

### Request

```
GET /server/merchantcatalog/{mccCode} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
  merchants: [
    {
      name: "Home Depot",
      category: "CategoryName"
      merchantUuid: "5F11230D-3B99-969A-E228-62147EF13C30"
    },
    {etc}
  ]
}
```

### Notes

## getMerchantCategories

---

Returns a list of all merchant categories – ids and friendly names – which can be used to constrain an Rcd.

### Request

```
GET /server/merchantcategories HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  categories: [
    {mccCode:5722, name:"Household Appliance Stores"},
    {etc}
  ]
}
```

### Notes

Categories include most relevant of the usual MCC codes here:

[http://www.ogs.state.ny.us/purchase/snt/awardnotes/7900802837MCC\\_LIST.pdf](http://www.ogs.state.ny.us/purchase/snt/awardnotes/7900802837MCC_LIST.pdf)

as well as custom categories created by Cortyex.

## getPurchaseByInvoice

---

Return info for a single, known purchase given the Invoice.

### Request

```
GET /server/purchase?
  invoice = {invoiceId} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
purchase
{
  description: "Burger from Rachel's",
  totalAmount: {currency: "USD", amount:19.25},
  purchaseBeginsDatetime:"2013-04-15T11:21Z",
  purchaseEndsDatetime:"2013-04-15T11:21Z",
  purchaseItems: [
    {
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      subtotal: {currency: "USD", amount:19.25},
      paymentItemDatetime: "2013-04-15T11:21Z"
    },
    {etc}
  ]
}
```

### Notes

## getPurchasesByRcd

---

Get information for all Purchases associated with a specific RCD.

### Request

```
GET /server/purchase?
    id = {rcdUuid} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  purchases: [
    {
      description: "Burger from Rachel's",
      totalAmount: {currency: "USD", amount:19.25},
      purchaseBeginsDatetime: "2013-04-15T11:21Z",
      purchaseEndsDatetime: "2013-04-15T11:21Z",
      purchaseItems:
        [
          {
            cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
            processorTransactionId: "1047517213",
            rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
            amount: {currency: "USD", amount:19.25},
            paymentItemDatetime: "2013-04-15T11:21Z",
          },
          {etc}
        ]
    },
    {etc}
  ]
}
```

### Notes

## getPurchaseByTransaction

---

Retrieve information for a single purchase, which includes the submitted transactionId

### Request

```
GET /server/purchase?
  transactionId = {transactionUuid} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
  description: "Burger from Rachel&apos;s",
  total: {currency: "USD", amount:19.25},
  purchaseBeginsDatetime:"2013-04-15T11:21Z",
  purchaseEndsDatetime:"2013-04-15T11:21Z",
  purchaseItems: [
    {
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      subtotal: {currency: "USD", amount:19.25},
      paymentItemDatetime: "2013-04-15T11:21Z"
    },
    {etc}
  ]
}
```

### Notes

## getRcds

---

Return information for all of a user's (i.e. a customer's) active RCDs.

### Request

```
GET /server/rcds HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  rcds: [
    {
      name: "my small card",
      rcdUuid: "21020EC2-E3AA-6910-2ADE-139D002B1803",
      balance: {  currency: "USD", amount:200.00 },
      canEditRules: false,
      isGifted: true.
      generatorUsernameEmail: "marner@cortexmcp.com",
      ownerUsernameEmail: "barner@yahoo.com",
      message: "Enjoy!",
      canRefill: false,
      expiration: "2016-04-15T00:00Z",
      txToday: 1,
      txAmountToday: { currency: "USD", amount: 9.15 },
      maxTxPerDay:3,
      maxTxAmount:50,
      merchantCategories: [5814, ...],
      merchants: [
        {
          merchantUuid: "320E610C-AE3A-2620-B981-08039D002B30",
          name: "Rachel's Burgers",
          mcc: 5814
        },
        {etc}
      ]
      created: "2016-03-15T00:00Z"
      lastModified: "2016-03-19T00:00Z"
    },
    {etc}
  ]
}
```

**Notes**

must verify sessionUuid is correct for userUuid

If resource is not found, return a 404

rcdUuid is guid, not rcd value, used to link rcids between server, client, and—where applicable--gifter

If receiving an rcd that is gifted and no uuid yet stored for it, need to store locally with PIN - use a acceptRcdGift call.

## getTransactionById

---

Return info for a single transaction based on its known id.

### Request

```
GET /server/transaction/{transactionUuid} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
  approved: true,
  cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
  processorTransactionId: "1047517213",
  date: "2013-04-15T11:21Z",
  merchant: "Sadie's",
  merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
  terminalUuid: "305F112D-23B2-2692-CC24-1362147EFFAF",
  amount: {currency: "USD", amount:19.25},
  transactionType: "CREDIT",
  transactionMethod: "QRSCANNED"
}
```

### Notes



## getTransactionsByCategory

---

Return all transactions for a given RCD matching an mcc or cortex code.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  category={mcc}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To return all transactions for a given user (customer) – not just for one RCD – matching an mcc or cortex code, use `getAllTransactionsByCategory()`.

Searching for Transactions by `rcdUuid` instead of `rcd` value – we do NOT need to create a second index on `rcdUuid`: from the `sessionUuid`, we can get the user, and all `rcds` for that user---loop through to match by `rcdUuid`.

## getTransactionsByDateRange

---

Return a list of transactions within a specific datetime range for a specific RCD.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get a list of all transactions within a specific datetime range for a user (not just one RCD), use `getAllTransactionsByDateRange()`.

Searching for Transactions by `rcdUuid` instead of `rcd` value – we do NOT need to create a second index on `rcdUuid`: from the `sessionUuid`, we can get the user, and all `rcds` for that user---loop through to match by `rcdUuid`.

## getTransactionsByMerchant

---

Return a list of information for all transactions a specific RCD has conducted with a particular merchant (searching by name) since the given date.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  merchant={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get complete list of transactions with Merchant and a user (not just one RCD), use `getAllTransactionsByMerchant()`.

## getTransactionsBySearch

---

Return a list of all transactions for a single RCD since a specific datetime matching the given search string.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId: "1047517213",
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      Amount: {currency: "USD", amount:19.25},
      transactionType: "CREDIT",
      transactionMethod: "QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

Formerly, this was called `getTransactionsByRange()`.

This was originally defined as a POST (to keep Rcd out of header but SSL encrypts headers)

To get all transactions for the user (not just the RCD), use `getAllTransactionsBySearch()`

To set both start and end date, use `getTransactionsByDateRange()`.

Searching for Transactions by rcdUuid instead of rcd value – we do NOT need to create a second index on rcdUuid. From the sessionUuid, we can get the user, and all rcds for that user---loop through to match by rcdUuid.

## giftRcd

---

Same as generateRcd but for the use of another person.

### Request

```
POST /server/giftRcd HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  fundingSourceUuid: "38400000-8cf0-11bd-b23e-10b96e4ef00d",
  recipientEmail: "myfriend@yahoo.com",
  message:"Do&apos;t spend it all in one place, Bucko!",
  canAcceptOffers: true,
  keywords: ["Video", "Games"],
  name: "Giftcard from Michael",
  balance: {currency: "USD", amount:200.00},
  expiration: "2016-04-15T00:00Z",
  maxTxPerDay: 3,
  maxTxAmount:50,
  merchantCategories: [5814, ...],
  merchants: ["320E610C-AE3A-2620-B981-08039D002B30",...],
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

- canEditRules always = false on a gift rcd
- canRefill always = false on gift rcd.
- guest will assign PIN on an acceptRcdGift call.

## getGiftedPendingRcds

---

Same as generateRcd but for the use of another person.

### Request

```
GET /server/pendinggiftrcds HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  rcds [
    {
      name: "my small card",
      rcdUuid: "21020EC2-E3AA-6910-2ADE-139D002B1803",
      balance: {  currency: "USD", amount:200.00 },
      canEditRules: false,
      isGifted: true.
      generatorUsernameEmail: "marner@cortexmcp.com",
      ownerUsernameEmail: "barner@yahoo.com",
      message: "Enjoy!",
      canRefill: false,
      expiration: "2016-04-15T00:00Z",
      txToday: 1,
      txAmountToday: { currency: "USD", amount: 9.15 },
      maxTxPerDay:3,
      maxTxAmount:50,
      merchantCategories: [5814, ...],
      merchants: [
        {
          merchantUuid: "320E610C-AE3A-2620-B981-08039D002B30",
          name: "Rachel's Burgers",
          mcc: 5814
        },
        {etc}
      ]
      created: "2016-03-15T00:00Z"
      lastModified: "2016-03-19T00:00Z"
    }
  ],
  messages:[
    {rcdUuid:" 38400000-8cf0-11bd-b23e-10b96e4ef00d", msg:"Gift message"},
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## acceptRcdGift

---

Add a gift RCD to the user's (i.e. the giftee's) wallet.

### Request

```
POST /server/acceptgiftacd HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  rcdUuid: "4140F D51-22FA-A644-182E-344362147EFC",
  rcdApp: "22CCCCDDDEEEEFZFZ44"
  rcdAppVersion: "1.0"
  pinPositions: "12,14,15,16"
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success: true,
  rcdDiff: "00-0A0F-1101-Z3W2-TR3G-F4",
  base: 36</base>
}
```

### Notes

must verify sessionUuid is correct for userUuid

## verifyRcd

---

Add a gift RCD to the user's (i.e. the giftee's) wallet.

### Request

```
POST /server/verifyrcd HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  [
    {"<rcd>": "<rcdCodeHash>"},
    {"<rcd>": "<rcdCodeHash>"},
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success: true,
}
```

### Notes



## getRcdDataForVerification

---

Add a gift RCD to the user's (i.e. the giftee's) wallet.

### Request

```
POST /server/getrcdsforverification HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  [
    <rcdUuid1>,
    <rcdUuid2>,
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  rcdInfo :[
    {
      rcdUuid:"<rcdUuid>"
      rcdval:"<rcdCode>",
      i:"<rcd difference>",
      b:"<base, equal to 36 now>"
    },
    etc
  ]
}
```

### Notes

## refillRcd

---

Add money (and/or change funding source) to an existing RCD.

### Request

```
POST /server/refillRcd/{rcdUuid} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  rcdUuid: "38400000-8cf0-11bd-b23e-10b96e4ef0a4",
  fundingSourceUuid: "38400000-8cf0-11bd-b23e-10b96e4ef00d",
  amount: { currency:USD, amount: 350.00}
}
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

Funding source is optional (default is to use existing funding source)

Must verify sessionUuid is correct for userUuid

## WALLET API: INTENT-TO-SPEND ANALYTICS

---

---

These functions provide the user of the Consumer Wallet application with ability to browse offers and tag the ones that are interesting.

---

---

---

## queryOpenOffers

Return all offers in the Open Pool based on keywords and constraints

### Request

```
POST /server/queryOpenOffers HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  expiration: "2016-04-15T00:00Z",
  gps: {
    gpsLatitude:-31.4250142,
    gpsLongitude:-62.0841809
  },
  gps-distance: {unit:"miles",magnitude:5},
  merchantCategories: [5814, ...],
  merchants: [
    {
      merchantUuid: "320E610C-AE3A-2620-B981-08039D002B30",
      name: "Rachel's Burgers",
      mcc: 5814
    },
    {etc}
  ],
  page: 1
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  page: 1,
  totalpages: 12,
  offers: [
    {
      id: "7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      message: "10% off selected DVD's",
      isTagged: false
    },
    {etc}
  ]
}
```

### Notes

Only active, approved non-expired offers returned

A hard-maximum of 100 offers (per page) will be returned.

Not implemented yet.

## tagOffer

---

This function is invoked by the user when they want to mark a specific offer for future redemption.

### Request

```
POST /server/tagOffer HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  offerUuid: "21020EC2-E3AA-6910-2ADE-139D002B18AF",
  rcdUuid: "21020EC2-E3AA-6910-2ADE-139D002B1803"
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
```

## WALLET API: OVERFILE

---

---

This section needs to be completed to document the Wallet OVERfile functions.

---

---

## getCredentialTypesFromServer

---

Returns a list of all credential types—including custom ones—that a user (customer) can hold.

### Request

```
GET /server/credentialtypes HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  ["Automatic","InsuranceAuto","Access","Coupon","Loyalty","Transportation","Misc"]
}
```

### Notes

## getIssuersByCategoryId

---

Return a list of all Issuers in the given Category.

### Request

```
GET /server/issuers/{categoryId} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=UTF-8
{
  issuers: [
    {
      issuerType: "Government",
      issuerId: "D9A0B146-D626-20F8-1E42-F43259ED2160",
      issuerName: "New Mexico DMV"
    },
    {etc}
  ]
}
```

### Notes



## POS API

---

This document gives functions for the Cortex Portals, which will be accessible either via browser and a web application platform OR via web services.

Both web services and web-application will be separate from the existing Cortex Backend but will access the same Cassandra database. Both will access the same underlying library—but the UI does not necessarily need to go through the web-service, it can access the library directly.

Initial version of this document will give all functions for the web services in REST format. C++ subroutine headers may be added subsequently (as they are developed).

---

## posExecuteTransaction

---

Pay from the Point-of-Sale using a Customer RCD (including any accepted offers).

### Request

```
POST /server/posExecuteTransaction HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <posSessionUuid>
{
  rcd: "12CACADDFDFEBECF2FR46",
  token:"{token}"
  counter:2
  cryptographicHash:"{hash from token, rcd and counter}"
  amount: { currency:"USD", amount: "24.50"},
  merchantUuid: "440F1D51-39F9-64A4-228E-4362147EFC34",
  offer: {
    offerUuid: "7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
    originalAmount: {currency:"USD",amount:"35.50"}
  }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  clerkMessage: "APPROVED",
  responseCode: 1,
  transactionId: "7760012",
  transactionUuid: "0F1D5259-A9FA-A644-125F-1B62B47EFCB2",
  rcdBalance: {currency: "USD", amount: "14.25"},
}
```

### Notes

(Response Codes are):

- 1= APPROVED;
- 2=DECLINED;
- 3=PARTIAL AUTHORIZATION

Transactions using offers must remove the offer from the Tagged offers list

## posLogin

---

Given pos (merchant) credentials, returns a valid Session token (globally-unique identifier) to be included all in future calls.

### Request

```
POST /server/posLogin HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <merchant-username:merchant-password>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "success":true,
  "sessionId": "21020EC2-FE3F-2692-FDFD-4238039D002B"
  "merchantParameters": TBD
  "merchantReceipt": [
    "Maxmillion Car Wash",
    "13309 Main Street",
    "Anytown, NM",
    "505.555.2222"
  ]
}
```

### Notes

## posLogout

---

Closes user (customer) session, marking that session token invalid for future logins.

### Request

```
POST /server/posLogout HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <posSessionUuid>
```

### Response

```
HTTP/1.1 205 Reset Content
```

### Notes

If resource is not found, return a 404

Closing an already-closed session is also legal and should return a 205.

## posQueryOffers

---

Given a customer's RCD, return all valid offers associated with that RCD.

### Request

```
POST /server/posQueryOffers HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <posSessionUid>
{
  rcd: "12CACADDFDFEBECF2FR46",
  amount:
    { currency: "USD", amount: "24.50"},
  merchantUuid: "440F1D51-39F9-64A4-228E-4362147EFC34"
  page:1
  lastPagingId:" 440F1D51-39F9-64A4-228E-4362147EFCA4"
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  offers: [
    {
      dealUuid: "7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      message: "10% off selected DVD's",
      title:"Deal Title"
      modifiedAmount:
        { currency: "USD", amount: "22.05"},
      isTagged: true
      rcdUuids:[" 7C21020E-EC3C-16C2-4D14-4CD80E02BEAA", etc]
    },
    {etc}
  ]
}
```

### Notes

Only active, approved, tagged non-expired offers returned

A hard-maximum of 20 offers will be returned. Server is responsible for returning the minimum number of offers.

The Message or "OrderInfo" returned with an offer (in a list of offers) from a call to posQueryOffers is just human-readable text describing the offer -- to help the clerk decide if the offer is relevant or not. It does not include data that needs to be machine-processed: it's just a label.

The return value should also include a modified amount. Server is responsible for doing these calculations

For now, only one offer can be redeemed at a time.

## PORTAL SERVICES API

---

This section gives functions for the Cortex Portals, which will be accessible either via browser and a web application platform OR via web services.

Both web services and web-application will be separate from the existing Cortex Backend but will access the same Cassandra database. Both will access the same underlying library—but the UI does not necessarily need to go through the web-service, it can access the library directly.

---

## campaignPoolSize

---

ajax command to dynamically give size of campaign pool

### Request

```
POST /administrative/campaignpoolsize HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  keywords: ["Television", "HD", "Sony"],
  merchantUuid:" 77836347-b646-4a40-94e9-eb51f0746f95",
  mccCode:"5691",
  expiration:"1428839807"
  locations: [
    {
      address:"350 5th Ave",
      city:"New York",
      state:"NY",
      zipPostalCode:"10118",
      country:"United States"
    }
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  campaignpoolsize:52321
}
```

### Notes

---

## createCampaign

---

Create a new campaign (container for one or more deals).  
Deals inherit as default values the properties of the containing campaign.

### Request

```
POST /administrative/createCampaign HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionId>
{
  keywords: ["Television", "HD", "Sony"],
  campaignName:"2014 Electronics Push",
  preconditions:"tbd",
  applicableProductCodes: "1101-2,1101-3",
  numberTimesRedeemableByRcd: 1,
  numberTimesRedeemableTotal: 10000,
  flatDiscount: {currency: "USD",amount:5.00},
  percentDiscount: 0.00,
  merchantUuid:" 77836347-b646-4a40-94e9-eb51f0746f95", //optional
  startDate:" 1428829807",
  endDate:" 1428839807",
  locations: [
    {
      address:"350 5th Ave",
      city:"New York",
      state:"NY",
      zipPostalCode:"10118",
      country:"United States"
    }
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  campaignUuid:"51F42A81-12B8-1391-7EF4-2329EFD32022"
}
```

### Notes

---



## editCampaign

---

Edit an already existing campaign with given Uuid.

### Request

```
POST /administrative/editCampaign HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  campaignUuid:" 77836347-b646-4a40-94e9-eb51f0746f95",
  keywords: ["Television", "HD", "Sony"],
  campaignName:"2014 Electronics Push",
  preconditions:"tbd",
  applicableProductCodes: "1101-2,1101-3",
  numberTimesRedeemableByRcd: 1,
  numberTimesRedeemableTotal: 10000,
  flatDiscount: {currency: "USD",amount:5.00},
  percentDiscount: 0.00,
  startDate:" 1428829807",
  endDate:" 1428839807",
  locations: [
    {
      address:"350 5th Ave",
      city:"New York",
      state:"NY",
      zipPostalCode:"10118",
      country:"United States"
    }
    etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  campaignUuid:"51F42A81-12B8-1391-7EF4-2329EFD32022"
}
```

### Notes

## createDeal

---

Create a new deal (as child of a containing campaign).

### Request

```
POST /administrative/createDeal HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  campaignUuid:"51F42A81-12B8-1391-7EF4-2329EFD32022"
  dealName:"20% off Televisions",
  keywords: ["Television", "HD", "Sony"],
  preconditions:"tbd",
  applicableProductCodes: "1101-2,1101-3",
  numberTimesRedeemableByRcd: 1,
  numberTimesRedeemableByRcd: 10000,
  flatDiscount: {currency: "USD",amount:5.00},
  percentDiscount: 0.00

  consumerMessage: "Bet you'd love 20% off a new television!",
  merchantMessage: "Make sure television matches selected SKUs",
  image: "http://greatbuysserver.com/images/dealimage5000.gif",
  disclaimer: 'Right to refuse redemption reserved by merchant',
  isFollowup: false,
  previousDeal : null,           //=/DealId of previous deal if a followup
  reUsable: false,
  fromGeneralPool: false
  isActive:true

  locations: [
  {
    address:"350 5th Ave",
    city:"New York",
    state:"NY",
    zipPostalCode:"10118",
    country:"United States"
  }
  etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  dealId:"A851F421-812B-1319-27EF4-2329EFD3202"
}
```

**Notes**

If campaign is not specified, create a containing campaign for this deal.

## editDeal

---

Edit an already existing deal (as child of a containing campaign).

### Request

```
POST /administrative/editDeal HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  dealUuid:"51F42A81-12B8-1391-7EF4-2329EFD32022"
  dealName:"20% off Televisions",
  keywords: ["Television", "HD", "Sony"],
  preconditions:"tbd",
  applicableProductCodes: "1101-2,1101-3",
  numberTimesRedeemableByRcd: 1,
  numberTimesRedeemableByRcd: 10000,
  flatDiscount: {currency: "USD",amount:5.00},
  percentDiscount: 0.00

  consumerMessage: "Bet you'd love 20% off a new television!",
  merchantMessage: "Make sure television matches selected SKUs",
  image: "http://greatbuysserver.com/images/dealimage5000.gif",
  disclaimer: 'Right to refuse redemption reserved by merchant',
  isFollowup: false,
  previousDeal : null,           // =DealId of previous deal if a followup
  reUsable: false,
  fromGeneralPool: false

  locations: [
  {
    address:"350 5th Ave",
    city:"New York",
    state:"NY",
    zipPostalCode:"10118",
    country:"United States"
  }
  etc
  ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## createGroup

---

Create a new Group. Groups are contained by Organizations and themselves contain individual merchants.

### Request

```
POST /administrative/createGroup HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  username:"myUsername",
  password:"myPassword",
  name:"American Motorcycle",
  organizationUuid:"397020FF-EEEA-9610-E424-54008039D2B5"
  email:      "marner@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  location:
    {
      address:"13009 Sandia Point NE",
      city:"Albuquerque",
      state:"NM",
      zipPostalCode:"87111",
      country:"USA"
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  groupUuid:"F397020F-EAEE-6109-ED44-DD0F8033D2F"
}
```

### Notes

Group, an abstraction gathering together sub-merchants. A new merchant account might be assigned grouplevel permissions, which would grant access to all these sub-merchants.

## createMerchantAccount

---

Board a new Merchant to the Cortex Database.

### Request

```
POST /administrative/createMerchantAccount HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  groupUuid: "F397020F-EAEE-6109-ED44-DD0F8033D2F",
  merchantName:"Motorcycles East",
  username: "motoEastBob",
  password:"myPassword"
  name:"myMid",

  location:
    {
      address"544 Castro",
      city:"San Francisco",
      state:"CA",
      zipPostalCode:"94114",
      country:"USA"
    },
  phones:
    [
      {cell:"5054447777"},
      {fax:"5054447778"},
      {landline:"5054447776"}
    ]
  email:"info@motorcycleseast.com",
  web:"www.motorcycleseast.com",
  logo: "http://www.motocycleseast.com/logos/logo_large.fig",
  mccCode: 5814
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  merchantUuid: "AB232909-8D38-2974-BEDF-401B53953118"
}
```

### Notes

---

## createTerminal

---

Create terminal for given merchant.

### Request

```
POST /administrative/createterminal/ HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  merchantUuid:" F397020F-EAEE-6109-ED44-DD0F8033DFA"
  name:"Motorcycles East",
  id: "542312",
  deviceId:"<DeviceID>"
  os:"Android",
  version:"4.4",
  isActivated:"true"
}
```

### Notes

---

## editTerminal

---

Edit terminal information for given terminalUuid.

### Request

```
POST /administrative/editterminal HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  terminalUuid:"77836347-b646-4a40-94e9-eb51f0746f95"
  name:"Motorcycles East",
  id: "542312",
  deviceId:"<DeviceID>"
  os:"Android",
  version:"4.4",
  isActivated:"true"
}
```

### Notes

---



## deleteTerminal

---

Remove terminal information for given terminalUuid.

### Request

```
POST /administrative/deleteterminal HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "terminalUuid:" AB232909-8D38-2974-BEDF-401B53953118"
```

### Notes



## createOrganization

---

Creates a new Organization. Organization is a subdivision of Licensee, which can in turn contain Groups of Organizations of Merchants.

### Request

```
POST /administrative/createOrganization HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  username:"myUsername"
  password:"myPassword"
  *name:"Universal Motorcycles"
  *email:      "marnar@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  *licenseeUuid:" 397020FF-EEEE-9610-E424-54008039D2B5",
  *location:
    {
      address:"13009 Sandia Point NE",
      city:"Albuquerque",
      state:"NM",
      zipPostalCode:"87111",
      country:"USA"
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  organizationUuid:"397020FF-EEEE-9610-E424-54008039D2B5"
}
```

### Notes

This call should be split to two different calls for creating and editing.

## createLicensee

---

Creates a new Licensee. Licensee can be created only by CortexAdmin user.

### Request

```
POST /administrative/createLicensee HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
{
  username:"myUsername"
  password:"myPassword"
  *name:"Universal Motorcycles"
  *email:      "marnar@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  *location:
    {
      address:"13009 Sandia Point NE",
      city:"Albuquerque",
      state:"NM",
      zipPostalCode:"87111",
      country:"USA"
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  licenseeUuid:"397020FF-EEEE-9610-E424-54008039D2B5"
}
```

### Notes

## editLicensee

---

Edit an already existing Licensee.

### Request

```
POST /administrative/editLicensee HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
{
  licenseeUuid:"77836347-b646-4a40-94e9-eb51f0746f95",
  *name:"Universal Motorcycles"
  *email:      "marner@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  *location:
    {
      address:"13009 Sandia Point NE",
      city:"Albuquerque",
      state:"NM",
      zipPostalCode:"87111",
      country:"USA"
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## createUserAccount

---

Identical to Wallet API createUserAccount. Creates a new user (i.e. customer) account in Cortex Database.

### Request

```
POST /administrative/createUserAccount HTTP/1.1
```

Host: https:// cortexmcpportal.com:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionGuid>

```
{
  *licenseeUuid:
    "0FC27810-FAFB-2924-BDB2-2B300118039D",
  *username: "myUsername",
  *password: "myPassword",
  email:      "marner@ieee.org",
  fname:     "Michael",
  lname:     "Arner",
  address:
    {
      address:"13009 Sandia Point NE",
      city:"Albuquerque",
      state:"NM",
      zipPostalCode:"87111",
    },

  fundingSources:
  [
    {
      source: [id:"1234567ABCD",
              type:"3",
              name:"Savings Account",
              rules: {
                expires: "2013-04-15T00:00Z",
                maxTxPerDay:1,
                maxTxPerWeek:5,
                maxTxPerMonth>10,
                maxAmountPerDay>100,
                maxAmountPerWeek>500,
                maxAmountPerMonth>1000,
                mccCodes: [5814,5815,6000,7815...],
                merchants:
                  ["FD322303-AA27-0916-FDF8-03002B30089E",
                  "EC222100-EA3A-1906-ADD2-002B3008039D"
                  etc
                ],
              },
            {etc}
          }
    ]
  }
}
```

## Response

HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8  
{  
 success:true,  
 username: "myUsername",  
 uuid: "EC222100-EA3A-1906-ADD2-002B3008039D"

```
fundingSources: ["EC222100-EA3A-1906-ADD2-002B3008039D", etc]  
}
```

**Notes:**

Optional fields: email, fname,lname,address,phones

Password only stored in hashed format; use bcrypt hashing algorithm

Type is Cortex FundingSourceType Id

## getCampaignByUuid

---

Return information for campaign with given Uuid.

### Request

```
Get /administrative/campaign/{campaignId} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  campaigns:
    {
      campaignUuid:"205AAEFA-12A1-13F3-4BFB-3559EFD3205C",
      name:"2014 Electronics Push",
      active:"true",
      activationDate:"2013-07-15T00:00Z",
      deactivationDate:"2013-08-15T00:00Z",
      keywords:["keyword1", "keyword2", etc]
      locations: [
        {
          address:"350 5th Ave",
          city:"New York",
          state:"NY",
          zipPostalCode:"10118",
          country:"United States"
        }
        etc
      ]
    }
}
```

### Notes

---



## deactivateCampaign

---

Mark a campaign as inactive and deactivate all the deals (and offers) it contains.

### Request

```
DELETE /administrative/deactivatecampaign/{campaignId} HTTP/1.1  
Host: https://localhost:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8
```

### Notes

## activateCampaign

---

Mark a campaign as an active.

### Request

```
DELETE /administrative/activatecampaign/{campaignId} HTTP/1.1  
Host: https://localhost:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8
```

### Notes

## deactivateCustomerPhone

---

Mark an active Customer Phone profile as no longer usable by the Cortex Platform.

### Request

```
DELETE /administrative/phone/{phoneUuid} HTTP/1.1  
Host: https://localhost:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 202 OK
```

### Notes

No TxExecutions sent from this phone can now be executed

Return a 404 if the phone profile is not found.

## deactivateCustomerRcd

---

Marks an RCD as no longer usable.

### Request

```
DELETE /administrative/deactivatercd/{rcdUuid} HTTP/1.1  
Host: https://cortexmcpportal.com:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

must verify is correct for userUuid. Only Rcd owner, licensee or CortexAdmin can use this call.

## activateCustomerRcd

---

Activate Rcd and make it usable again.

### Request

```
POST /administrative/activatercd/{rcdUuid} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

must verify is correct for userUuid. Only Rcd owner, licensee or CortexAdmin can use this call.

## deactivateDeal

---

Remove a deal from its containing campaign and all of the offers associated with that deal.

### Request

```
DELETE /administrative/deactivateddeal/{dealId} HTTP/1.1  
Host: https:// cortexmcpportal.com:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8
```

### Notes

## activateDeal

---

Deactivate deal so it should not be offered during any transaction.

### Request

```
POST /administrative/activateDeal/{dealId} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## deleteFundingSource

---

Remove a specific funding source as optional for a given user account

### Request

DELETE /administrative/deleteFundingSource/{fundingSourceId} HTTP/1.1

Host: https:// cortexmcpportal.com:8080

Content-Type:application/json;charset=UTF-8

Authorization: Cortex-1 <SessionID>

### Response

HTTP/1.1 200 OK

### Notes



## deleteUserAccount

---

Identical to Wallet API deleteUserAccount(). Marks a user (customer) account as deleted, erases RCDs and OVERfiles from the system, invalidates future logins.

### Request

```
DELETE /administrative/user/{uuid} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

200 response assuming asynchronous deletion since serverside takes a while to clean up:

- RCDs and Credentials eliminated
- hashed password and terminalPin redacted
- status updated

## editGroup

---

Modify properties of an existing Group.

### Request

```
POST /administrative/editGroup HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  groupUuid:"77836347-b646-4a40-94e9-eb51f0746f95",
  name:"American Motorcycle",
  email:      "marnar@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  location:
    {
      line1:"13009 Sandia Point NE",
      line2:"",
      city:"Albuquerque",
      stateProvince:"NM",
      zipPostalCode:"87111",
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## editMerchantAccount

---

Modify properties of an existing Merchant.

### Request

```
POST /administrative/editMerchantAccount HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
{
  merchantUuid:"77836347-b646-4a40-94e9-eb51f0746f95",
  merchantName:"Motorcycles East",
  location:
    {
      line1:"544 Castro",
      line2:"",
      city:"San Francisco",
      stateProvince:"CA",
      zipPostalCode:"94114",
    },
  phones:
    [
      {cell:"5054447777"},
      {fax:"5054447778"},
      {landline:"5054447776"}
    ]
  email:"info@motorcycleseast.com",
  web:"www.motorcycleseast.com",
  logo: "http://www.motocycleseast.com/logos/logo_large.fig",
  mccCode: 5814
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## editOrganization

---

Modify data for an existing Organization.

### Request

```
POST /administrative/editOrganization HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  organizationUuid:"77836347-b646-4a40-94e9-eb51f0746f95",
  name:"Universal Motorcycles"
  email:      "marner@ieee.org",
  logo: "http://universalmotorcycles.com/logo_one.gif",
  location:
    {
      line1:"13009 Sandia Point NE",
      line2:"",
      city:"Albuquerque",
      stateProvince:"NM",
      zipPostalCode:"87111",
    }
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

### Notes

## editUserAccount

---

Identical to Wallet API editUserAccount(). Modify password, fullname or email.

### Request

```
POST /administrative/editCustomer HTTP/1.1
```

```
Host: https:// cortexmcpportal.com:8080
```

```
Content-Type:application/json;charset=UTF-8
```

```
Authorization: Cortex-1 <sessionUuid>
```

```
{  
  uuid:"EC222100-EA3A-1906-ADD2-002B3008039D",  
  oldPasswordHash:  
    "3d588b2d895407b2f3286c410a01e77f199f406bb1c5ebd03c8fb18a75031a52",  
  newPasswordHash:  
    "ceefa7746d76797fde8a3ab7616c67d213d64d010c8f8e780d2fe650975a0d4f",  
  fullname:"Dr. Michael D. Arner",  
  email:"marner@cortexmcp.com"  
}
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

Functionality should be invoked on application backend also on first Application

## getCustomerOffers

---

Retrieve all offers (tagged or untagged, ordered by tagged) attached to alls RCD for a given user.

### Request

```
GET /server/customeroffers/{customerUuid}?istagged=true HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  offers: [
    {
      dealUuid: "7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      merchantMessage: "10% off selected DVD's",
      customerCessage: "10% off selected DVD's",
      isTagged: true,
      title:"Offer title",
      images:[path1, path2, etc],
      merchantUuid:" 7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      rcds:[" 7C21020E-EC3C-16C2-4D14-4CD80E02BFA0", etc]
    },
    {etc}
  ]
}
```

### Notes

Only active, approved non-expired offers (both tagged and untagged) returned for all of a customers Rcds

The Message or "OrderInfo" returned with an offer (in a list of offers) from the call is just human-readable text describing the offer.

## getAllTransactionsByDateRange

---

Identical to `getAllTransactionsByDateRange()` in Wallet API: return a list of transactions for a user (not just one RCD) within a specific datetime range.

### Request

```
GET /server/transactions?
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:1047517213,
      date: "2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get a list of transactions within a specific datetime range for a specific RCD, use `getTransactionsByDateRange()`.

## getAllTransactionsByCategory

---

Identical to `getAllTransactionsByCategory()` in Wallet API: Return all transactions for a given user (customer) matching an mcc or cortex code.

### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get all transactions for a specific RCD (not all for a whole customer), use `getTransactionsByCategory()`.



## getAllTransactionsByMerchant

---

Identical to getAllTransactionsByMerchant in Wallet API: Return a list of information for all transactions a user (consumer) conducted with a particular merchant (searching by name) since the given date.

### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  merchant={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get transactions by Merchant for a specific RCD only, user getTransactionsByMerchant().

## getAllTransactionsBySearch

---

Identical to `getAllTransactionsBySearch()` in Wallet API: Get all transactions for a user (not just a single RCD) since a given start date, matching an optional search-string.

### Request

```
GET /server/transactions?
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

Formerly, this was called `getTransactionsByRange()`

## getCampaigns

---

Return information for campaigns matching the submitted parameters  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin only)

### Request

```
Get /administrative/campaigns/{userId}?
  activeonly=true&
  includeopenpool=true&
  keywords=[{list of keywords}] &
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  campaigns: [
    {
      campaignUuid:"205AAEFA-12A1-13F3-4BFB-3559EFD3205C",
      name:"2014 Electronics Push",
      status:"Active"/"Inactive",
      startDate:"2013-07-15T00:00Z",
      endDate:"2013-08-15T00:00Z",
      numApplied:10
      numRedeemed:5
      txVolume:{amount:300, currency:"USD"}
    },
    {etc}
  ]
}
```

### Notes

## getCampaignSummary

---

Return information for campaigns matching the submitted parameters  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin only)

### Request

```
Get /administrative/campaignsummary/{flag}?
  userId={userUuid}&
  startIndex={startDate}&
  endIndex={endDate} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  campaignSummary:
    {
      offers:12,
      offersRedeemed:25,
      offersVolume:{currency:"USD", amount:"250"},
      savingsVolume:100
    },
  summary:
  [
    {"2014-04-04":12},
    {"2014-04-05":10},
    etc.
  ]
}
```

### Notes

Flag argument can accept one of the following values and it's designed to define what to return in summary.

No value -> Campaign total summary

0 -> attached offers count

1 -> redeemed offers count

2 -> volume of redeemed offers

3 -> savings amount

## getCustomerPhones

---

Return all information for known mobile devices associated with a customer.

### Request

```
GET /server/phones/{userUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  phones: [
    {
      uuid:"0C3620E1-7E37-1699-C9C1-9D002B980330",
      number:"5054322233",
      activatedDT:"2013-04-15T00:00Z",
      lastUsedDT:"2013-06-24T11:09Z",
      os:"Android",
      version:"3.1",
      id:"987000034343"
    },
    {etc}
  ]
}
```

### Notes

## getCustomerRcds

---

Identical to getRcds() in Wallet API: return information for all of a user's (i.e. a customer's) active RCDs.

### Request

```
GET /server/rcds/{userId} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionId>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  rcds: [
    {
      name: "my small card",
      rcdUuid: "21020EC2-E3AA-6910-2ADE-139D002B1803",
      balance: { currency: "USD", amount:200.00 },
      canEditRules: false,
      isGifted: true.
      generatorUsernameEmail: "marner@cortexmcp.com",
      ownerUsernameEmail: "barner@yahoo.com",
      message: "Enjoy!",
      canRefill: false,
      expiration: "2016-04-15T00:00Z",
      txToday: 1,
      txAmountToday: { currency: "USD", amount: 9.15 },
      maxTxPerDay:3,
      maxTxAmount:50,
      merchantCategories: [5814, ...],
      merchants: [
        {
          merchantUuid: "320E610C-AE3A-2620-B981-08039D002B30",
          name: "Rachel's Burgers",
          mcc: 5814
        },
        {etc}
      ]
      created: "2016-03-15T00:00Z"
      lastModified: "2016-03-19T00:00Z"
    },
    {etc}
  ]
}
```

**Notes**

must verify is correct for userUuid

If resource is not found, return a 404

rcdUuid is guid, not rcd value, used to link rcds  
between server, client, and—where applicable--gifter  
if receiving an rcd that is gifted and no uuid yet stored for it,  
need to store locally with PIN

## getDealsByCampaign

---

Return all deals in the specified campaign

### Request

```
GET /administrative/deals/{campaignUuid} ?
pageSize={pageSize}&
page={page}&
userId:{merchantUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

```
{
  deals: [
    {
      dealUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ec1",
      dealName:"Deal Name",
      disclaimer:"Disclaimer message",
      consumerMessage:"Consumer message",
      merchantMessage:"Merchant message",
      campaignId:"fd4e8024-e0f2-11e4-8a00-1681e6b88ea2",
      campaignName:"Campaign Name",
      merchantId:"fd4e8024-e0f2-11e4-8a00-1681e6b88ea2",
      images:["path1", "path2", etc]
      keywords:["keyword1", "keyword2", etc],
      activationDate:"1428829100",
      deactivationDate:"1428849807",
      isActive:"true",
      isFollowup:"false",
      fromGeneralPool:"false",
      locations: [
        {
          address:"350 5th Ave",
          city:"New York",
          state:"NY",
          zipPostalCode:"10118",
          country:"United States"
        }
        etc
      ]
    },
    {etc}
  ]
}
```



## Notes

CampaignUuid argument is optional. In case of not providing it returns all the deals for all campaigns for given merchant.

## getDealById

---

Return all deals in the specified campaign

### Request

```
GET /administrative/deal/{dealUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
```

```
{
  deal:
  {
    dealUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ec1",
    dealName:"Deal Name",
    disclaimer:"Disclaimer message",
    consumerMessage:"Consumer message",
    merchantMessage:"Merchant message",
    campaignUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ea2",
    campaignName:"Campaign Name",
    merchantUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ea2",
    images:["path1", "path2", etc]
    keywords:["keyword1", "keyword2" etc],
    activationDate:"1428829100",
    deactivationDate:"1428849807",
    isActive:"true",
    isFollowup:"false",
    fromGeneralPool:"false",
    locations: [
      {
        address:"350 5th Ave",
        city:"New York",
        state:"NY",
        zipPostalCode:"10118",
        country:"United States"
      }
      etc
    ]
  }
}
```

## Notes

## getGlobalTransactionSummaryByCategory

---

Return summary metrics on global transactions matching an mcc or cortex code.  
(can be called by CortexAdmin only)

### Request

```
GET /administrative/globaltransactionssummary?
id={globalUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  numRcds:10812,
  numTx:28009,
  volTx: {currency:"USD", amount="350120"},
  numCampaigns:30127,
  numOpenCampaigns:5532,
  offers:355628,
  offersRedeemed:21232,
  volOffersRedeemed: {currency="USD", amount="112325"},
  numMerchants:1909,
  distinctMccCodes:122,
  users:19010
}
```

### Notes

## getGlobalTransactionsByCategory

---

Return global transactions matching an mcc or cortex code.  
(can be called by CortexAdmin only)

### Request

```
GET /server/globaltransactions?
id={globalUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getGlobalTransactionsByDateRange

---

Return a list of global transactions within a specific datetime range.  
(can be called by CortexAdmin only)

### Request

```
Get /server/globaltransactions?
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11"
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getGlobalTransactionSummaryByDateRange

---

Return summary metrics on global transactions within the specified date range.  
(can be called by CortexAdmin only)

### Request

```
Get /administrative/globaltransactionssummary?
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  numRcds:10812,
  numTx:28009,
  volTx: {currency:"USD", amount="350120"},
  numCampaigns:30127,
  numOpenCampaigns:5532,
  offers:355628,
  offersRedeemed:21232,
  volOffersRedeemed: {currency="USD", amount="112325"},
  numMerchants:1909,
  distinctMccCodes:122,
  users:19010
}
```

### Notes

## getGlobalTransactionSummaryByRange

---

Return summary metrics on all transactions matching a given search string and occurring after the specified date. (can be called by CortexAdmin only)

### Request

```
GET /administrative/globaltransactionssummary?
  firstTxDT= YYYY-MM-DD&
  searchString={searchString}
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  numRcds:10812,
  numTx:28009,
  volTx: {currency:"USD", amount="350120"},
  numCampaigns:30127,
  numOpenCampaigns:5532,
  offers:355628,
  offersRedeemed:21232,
  volOffersRedeemed: {currency="USD", amount="112325"},
  numMerchants:1909,
  distinctMccCodes:122,
  users:19010
}
```

### Notes

Date structure refers to Universal Time

LastTxDT assumed to be System.Now

## getGroupReport

---

Return transaction report covering all transactions within the scope of a given Group.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin)

### Request

```
GET /administrative/groupreport?
orderBy=alphabeticalA-Z
firstTxDT=YYYY-MM-DD&
lastTxDT=YYYY-MM-DD&
pageSize={pageSize}&
page={page} &
rootId={UUID} &
search={keyword} HTTP/1.1
Host: https://localhost:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  page: 1,
  lastPagingId:"770F1D51-39F9-64A4-228E-4362147EFC77",
  groups: [
    {
      name:"Northwest Region",
      uuid:"8100FC27-35B4-5295-1DBF-8092B300113D",
      campaigns:123,
      offers:1500,
      offersRedeemed:1000,
      rcds: 243,
      txTotal:556,
      txVolume: { currency:"USD", amount:5678.21},
      growthPercentage:5.2
    },
    {etc}
  ]
}
```

### Notes

organizationId is optional. If not given, search sessionId for user type. If the usertype is a cortex admin, return all groups for all organizations—otherwise, return all groups for organizations in context.

If resource is not found, return a 404

growthPercentage computed using same stats for previous time period  
(of same duration)

Order-by can be:  
alphabeticalA-Z,



alphabeticalZ-A,  
byTxTotalLowHigh,  
byTxTotalHighLow  
byTxVolumeLowHigh,  
byTxVolumeHighLow  
byOffersLowHigh  
byOffersHighLow  
byGrowthLowHigh  
byGrowthHighLow  
dateAcquiredHighLow  
dateAcquiredLowHigh

## getGroups

---

Return all Groups that can be viewed by current user  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin)

### Request

```
GET /administrative/groups/{organizationId}?pageSize={pageSize} & lastPagingId={pagingUuid}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  lastPagingId:"770F1D51-39F9-64A4-228E-4362147EFC77",
  groups: [
    {
      organizationUuid:"0FC27810-FAFB-2924-BDB2-2B300118039D",
      name:"Northwest Region",
      uuid:"8100FC27-35B4-5295-1DBF-8092B300113D"
    },
    {etc}
  ]
}
```

### Notes

## getGroupTransactionsByCategory

---

Return transactions for the specified group matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin)

### Request

```
GET /administrative/grouptransactions?
id={groupUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getGroupTransactionsByDateRange

---

Return transactions for the given group within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin only)

### Request

```
Get /administrative/grouptransactions?
id={groupUuid}&
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <Base64 of cortex, licensee, org, group admin Uuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    }
    {etc}
  ]
}
```

### Notes

## getGlobalTransactionsByRange

---

Return report on all transactions matching a given search string and occurring after the specified date.  
(Can be called by CortexAdmin only)

### Request

```
GET /server/globaltransactions?
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD", amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

Date structure refers to Universal Time

LastTxDT assumed to be System.Now

## getGroupTransactionsByRange

---

Get all transactions for a Group since a given start date, matching an optional search-string.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin only)

### Request

```
GET /administrative/grouptransactions?
id={groupUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <Base64 of cortex, licensee, org, group admin Uuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

LastTxDT assumed to be System.Now

## getGroupTransactionSummaryByCategory

---

Return summary metrics on all transactions for the given group matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin)

### Request

```
GET /administrative/grouptransactionssummary?
id={groupUuid}&
    firstTxDT=YYYY-MM-DD&
    category={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getGroupTransactionSummaryByDateRange

---

Return summary metrics on transactions for the given group within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin only)

### Request

```
Get /administrative/grouptransactionssummary?  
id={groupUuid}&  
  startIndex=YYYY-MM-DD&  
  endIndex=YYYY-MM-DD
```

HTTP/1.1

Host: https://cortexmcpportal.com:8080

Content-Type: application/json;charset=UTF-8

Authorization: Cortex-1 <Base64 of cortex, licensee, org, group admin Uuid:securityToken>

### Response

HTTP/1.1 200 OK

Content-Type: application/json;charset=UTF-8

```
{  
  numRcds:10812,  
  numTx:28009,  
  volTx: {currency:"USD", amount="350120"},  
  numCampaigns:30127,  
  numOpenCampaigns:5532,  
  offers:355628,  
  offersRedeemed:21232,  
  volOffersRedeemed: {currency="USD", amount="112325"},  
  numMerchants:1909,  
  distinctMccCodes:122,  
  users:19010  
}
```

### Notes



## getGroupTransactionSummaryByRange

---

Return summary metrics on all transactions for the group matching a given search string and occurring after the specified date.

(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin only)

### Request

```
GET /administrative/grouptransactionssummary?
```

```
id={groupUuid}&
```

```
  firstTxDT=YYYY-MM-DD&
```

```
  searchString={searchString}
```

```
HTTP/1.1
```

```
Host: https://cortexmcpportal.com:8080
```

```
Content-Type: application/json;charset=UTF-8
```

```
Authorization: Cortex-1 <Base64 of cortex, licensee, org, group admin Uuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json;charset=UTF-8
```

```
{  
  numRcds:10812,  
  numTx:28009,  
  volTx: {currency:"USD", amount="350120"},  
  numCampaigns:30127,  
  numOpenCampaigns:5532,  
  offers:355628,  
  offersRedeemed:21232,  
  volOffersRedeemed: {currency="USD", amount="112325"},  
  numMerchants:1909,  
  distinctMccCodes:122,  
  users:19010  
}
```

### Notes

LastTxDT assumed to be System.Now

## getLastLoginMetrics

---

Return cached metrics from the last session for the specied user (i.e. user of the current session)

### Request

```
Get /administrative/lastloginmetrics/{userId} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  licenseesTotal:5,
  organizationsTotal:100,
  groupsTotal:13,
  merchantsTotal:55,
  terminalsTotal:13,
  customersTotal: 121,
  rcdsTotal: 400,
  transactionsTotal: 801,
  attachedOffersTotal: 433,
  outstandingOffersTotal: 222,
  redeemedOffersTotal: 121,
  expiredOffersTotal: 4,
  currencyType: USD,
  moneyInTotal: 14,212.50,
  moneySavedTotal: 3214.22,

  licenseesDelta:2,
  organizationsDelta:20,
  groupsDelta:6,
  merchantsDelta:21,
  terminalsDelta:2,
  customersDelta: 90,
  rcdsDelta: 321,
  transactionsDelta: 801,
  attachedOffersDelta: 167,
  outstandingOffersDelta: 106,
  expiredOffersDelta: 1,
  redeemedOffersDelta: 17,
  moneyInDelta: 7639.77,
  moneySavedDelta 1002.78:
}
```

### Notes

metrics above user's tier number (i.e. licensees total when the user is a merchant) do not appear at all in the response: a -1 appears instead.

## getLicensees

---

Return list of information for all Licensees. (can be called by CortexAdmin only)

### Request

```
GET /administrative/licensees HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  page: 1,
  lastPagingId:"770F1D51-39F9-64A4-228E-4362147EFC77",
  licensees: [
    {
      name:"PayPal",
      uuid:"0FC27810-FAFB-2924-BDB2-2B300118039Duuid"
    },
    {etc}
  ]
}
```

### Notes

## getLicenseeReport

---

Return transaction report covering all transactions within the scope of a given Licensee (can be called by CortexAdmin only)

### Request

```
GET /administrative/licenseereport?
orderBy=alphabeticalA-Z
firstTxDT=YYYY-MM-DD&
lastTxDT=YYYY-MM-DD&
pageSize={pageSize}&
page={page}
rootId={UUID}
search={keyword} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  licensees: [
    {
      name:"PayPal",
      uuid:"0FC27810-FAFB-2924-BDB2-2B300118039Duuid",
      campaigns: 123,
      offers:15000,
      offersRedeemed:5000,
      rcds: 6543,
      txTotal:23456,
      txVolume: { currency:"USD", amount:2345678.21},
      growthPercentage:5.2
    },
    {etc}
  ]
}
```

### Notes

If resource is not found, return a 404

growthPercentage computed using same stats for previous time period (of same duration)

Order-by can be:

- alphabeticalA-Z,
- alphabeticalZ-A,
- byTxTotalLowHigh,
- byTxTotalHighLow
- byTxVolumeLowHigh,
- byTxVolumeHighLow
- byOffersLowHigh
- byOffersHighLow

byGrowthLowHigh  
byGrowthHighLow  
dateAcquiredHighLow  
dateAcquiredLowHigh

## getLicenseeTransactionsByCategory

---

Return transactions for the specified licensee matching an mcc or cortex code.  
(can be called by CortexAdmin or LicenseeAdmin only)

### Request

```
GET /administrative/licenseetransactions?
id={licenseeUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getLicenseeTransactionsByDateRange

---

Return transactions for the given licensee within the specified date range.  
(can be called by CortexAdmin or Licensee Admin only)

### Request

```
Get /administrative/licenseetransactions?
id={licenseeUuid}&
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getLicenseeTransactionsByRange

---

Get all transactions for a Licensee since a given start date, matching an optional search-string.  
(can be called by CortexAdmin or Licensee Admin only)

### Request

```
GET /administrative/licenseetransactions?
  id={licenseeUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    }
    {etc}
  ]
}
```

### Notes

Date structure refers to Universal Time

LastTxDT assumed to be System.Now



## getLicenseeTransactionSummaryByCategory

---

Return summary metrics on all transactions for the given licensee matching an mcc or cortex code.  
(can be called by CortexAdmin or LicenseeAdmin only)

### Request

```
GET /administrative/licenseetransactionsummary?
id={licenseeUuid}&
    firstTxDT=YYYY-MM-DD&
    category={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getLicenseeTransactionSummaryByDateRange

---

Return summary metrics on transactions for the given licensee within the specified date range.  
(can be called by CortexAdmin or Licensee Admin only)

### Request

```
Get /administrative/licenseetransactionsummary?
id={licenseeUuid}&
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  numRcds:10812,
  numTx:28009,
  volTx: {currency:"USD", amount="350120"},
  numCampaigns:30127,
  numOpenCampaigns:5532,
  offers:355628,
  offersRedeemed:21232,
  volOffersRedeemed: {currency="USD", amount="112325"},
  numMerchants:1909,
  distinctMccCodes:122,
  users:19010
}
```

### Notes

## getGlobalTransactionSummaryByDay

---

Get total number of transactions (from archive) for the CortexAdmin and date range.

### Request

```
GET /administrative/globaltransactionssummarybyday/{flag}?
id={licenseeUuid}&
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12 },
    { "2013-10-12": 13 },
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

{flag} can accept a single value from the following set {0, 1, 2, 3, 4} with the following meaning:

- 0 -> transaction count
- 1 -> transaction amount
- 2 -> offers count
- 3 -> offers redeemed

It Defines the return for this call.

## getLicenseeTransactionSummaryByDay

---

Get total number of transactions (from archive) for the specified licensee and date range.

### Request

```
GET /administrative/liceseetransactionssummarybyday/{flag}?
id={licenseeUuid}&
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12 },
    { "2013-10-12": 13 },
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

{flag} can accept a single value from the following set {0, 1, 2, 3, 4} with the following meaning:

- 0 -> transaction count
- 1 -> transaction amount
- 2 -> offers count
- 3 -> offers redeemed

It Defines the return for this call.

## getLicenseeTransactionSummaryByRange

---

Return summary metrics on all transactions for the licensee matching a given search string and occurring after the specified date.  
(can be called by CortexAdmin or Licensee Admin only)

### Request

```
GET /administrative/licenseetransactionsummary?
```

```
  id={licenseeUuid}&  
  firstTxDT=YYYY-MM-DD&  
  searchString={searchString}&
```

```
Host: https://cortexmcpportal.com:8080
```

```
Content-Type:application/json;charset=UTF-8
```

```
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
```

```
Content-Type: application/json;charset=UTF-8
```

```
{  
  numRcds:10812,  
  numTx:28009,  
  volTx: {currency:"USD", amount="350120"},  
  numCampaigns:30127,  
  numOpenCampaigns:5532,  
  offers:355628,  
  offersRedeemed:21232,  
  volOffersRedeemed: {currency="USD", amount="112325"},  
  numMerchants:1909,  
  distinctMccCodes:122,  
  users:19010  
}
```

### Notes

LastTxDT assumed to be System.Now

## getTerminal

---

Get all information for a Terminal.

### Request

```
GET /administrative/terminal/{terminalUuid} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <SessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  uuid: "F397020F-EAEE-6109-ED44-DD0F8033D2F",
  name: "Motorcycles East",
  id: "542312",
  deviceId: "<DeviceID>"
  os: "Android",
  version: "4.4",
  isActivated: "true"
  merchantUuid: " F397020F-EAEE-6109-ED44-DD0F8033D2F"
}
```

### Notes

## getMerchantReport

---

Return transaction report covering all transactions within the scope of a given Merchant.  
(can be called by CortexAdmin, OrganizationAdmin, GroupAdmin)

### Request

```
GET /administrative/merchantreport?
orderBy=alphabeticalA-Z
firstTxDT=YYYY-MM-DD&
lastTxDT=YYYY-MM-DD&
pageSize={pageSize}&
page={page}
rootId={UUID}
search={keyword} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  merchants:[
    {
      uuid:"5F11230D-3B99-969A-E228-62147EF13C30",
      name:"McDonald's Portland Location 35",
      campaigns:12,
      offers:150,
      offersRedeemed:900,
      rcds: 43,
      txTotal:56,
      txVolume: {currency:"USD",amount:678.21},
      growthPercentage:2.2
    },
    {etc}
  ]
}
```

### Notes

If the usertype is a cortex admin, return all merchants for all groups—otherwise, return all merchants for group in context.

growthPercentage computed using same stats for previous time period  
(of same duration)

Order-by can be:

- alphabeticalA-Z,
- alphabeticalZ-A,
- byTxTotalLowHigh,
- byTxTotalHighLow
- byTxVolumeLowHigh,
- byTxVolumeHighLow

byOffersLowHigh  
byOffersHighLow  
byGrowthLowHigh  
byGrowthHighLow  
dateAcquiredHighLow  
dateAcquiredLowHigh



## getMerchants

---

Return all Merchants that can be viewed by current user  
(can be called by CortexAdmin, OrganizationAdmin, GroupAdmin)

### Request

```
GET /administrative/merchants/{groupId}?pageSize={pageSize} & lastPagingId={pagingUuid}
HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  lastPagingId:"770F1D51-39F9-64A4-228E-4362147EFC77",
  merchants: [
    {
      uuid:"5F11230D-3B99-969A-E228-62147EF13C30",
      name:"McDonald's Portland Location 35",
      groupUuid:"8100FC27-35B4-5295-1DBF-8092B300113D",
      location: {
        address:"1300 Trinity Drive",
        city:"Portland",
        state:"OR",
        zipPostalCode:"97229",
        country:"US-en",
      },
      gpsLatitude:-45.3150142,
      gpsLongitude:-122.4041809,
      phones: [
        {phone: "5032252525"},
        {cell:""},
        {landline:""},
        {fax:""}
      ],
      tids:[
        "3C30230D-39B9-9A96-E228-62147EF15F11",
        {etc}
      ]
    },
    {etc}
  ]
}
```

### Notes

## getMerchantTransactionsByCategory

---

Return transactions for the specified merchant matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /server/grouptransactions?
id={merchantUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  page: 1,
  lastPagingId:"770F1D51-39F9-64A4-228E-4362147EFC77",
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getMerchantTransactionsByDateRange

---

Return transactions for the given merchant within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin, Merchant)

### Request

```
Get /administrative/merchantransactions?
id={merchantUuid}&
startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getMerchantTransactionsByRange

---

Get all transactions for a Merchant since a given start date, matching an optional search-string.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /administrative/merchanttransactions?
id={merchantUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

LastTxDT assumed to be System.Now

## getMerchantTransactionSummaryByCategory

---

Return summary metrics on all transactions for the given merchant matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /administrative/merchanttransactionssummary?
id={merchantUuid}&
    firstTxDT=YYYY-MM-DD&
    category={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getMerchantTransactionSummaryByDateRange

---

Return summary metrics on transactions for the given merchant within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin, Merchant)

### Request

```
Get /administrative/merchantransactionssummary?
id={merchantUuid}&
startIndex=YYYY-MM-DD&
    endIndex=YYYY-MM-DD
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getMerchantTransactionSummaryByDay

---

Get total number of transactions (from archive) for the specified merchant and date range.

### Request

```
GET /administrative/merchanttransactionssummarybyday/{flag}?
id={merchantId}&
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12},
    { "2013-10-12": 13},
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

{flag} can accept a single value from the following set {0, 1, ,2, 3, 4} with the following meaning:

- 0 -> transaction count
- 1 -> transaction amount
- 2 -> offers count
- 3 -> offers redeemed

It Defines the return for this call.

## getGlobalRcdSummaryByDay

---

Get total number of Rcds (from archive) for CortexAdmin.

### Request

```
GET /administrative/globalrcdsummarybyday/{flag}?
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12},
    { "2013-10-12": 13},
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes



## getLicenseeRcdSummaryByDay

---

Get total number of Rcds (from archive) for CortexAdmin.

### Request

```
GET /administrative/licenseercdsummarybyday/{flag}?
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD&
id={licenseeUuid}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12},
    { "2013-10-12": 13},
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

## getMerchantTransactionSummaryByRange

---

Return summary metrics on all transactions for the merchant matching a given search string and occurring after the specified date.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /administrative/merchanttransactionssummary?
id={merchantUuid}&
    firstTxDT=YYYY-MM-DD&
    searchString={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

LastTxDT assumed to be System.Now

## getOffersByDeal

---

Return all offers in the specified deal

### Request

```
GET /administrative/deals/{dealUuid}?
pageSize={pageSize}&
taggedOnly={taggedOnlyBool}&
page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 201 Created
Content-Type: application/json;charset=UTF-8
{
  dealId:"51F42A81-12B8-1391-7EF4-2329EFD32022",
  pagesize:100,
  pagenumber:3,
  offers: [
    {
      offerUuid:"AF442103-3A3E-5936-D2AD-40B300802392",
      disclaimer: "Reserve right to refuse any customer",
      consumerMessage: "Get 10% off!!",
      merchantMessage: "10% off selected merchandise",
      campaignId: " 605D1EF2-82A8-2393-7DF9-729EFD320223",
      images: http://nikeserver.com/images/dealimage5000.gif
    },
    {etc}
  ],
  {etc}
}
```

### Notes

**Not implemented yet.**

## getOffersByRcd

---

Retrieve all offers (tagged or untagged, ordered by tagged) attached to a specific RCD.

### Request

```
GET /server/rcdooffers/{rcdUuid}?istagged=true HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  offers: [
    {
      dealUuid: "7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      merchantMessage: "10% off selected DVD's",
      customerCessage: "10% off selected DVD's",
      isTagged: true,
      title:"Offer title",
      images:[path1, path2, etc],
      merchantUuid:" 7C21020E-EC3C-16C2-4D14-4CD80E02BEF0",
      rcds:[" 7C21020E-EC3C-16C2-4D14-4CD80E02BFA0", etc]
    },
    {etc}
  ]
}
```

### Notes

Only active, approved non-expired offers returned

The Message or "OrderInfo" returned with an offer (in a list of offers) from the call is just human-readable text describing the offer.

## getOrganizationTransactionsByCategory

---

Return transactions for the specified organization matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
GET /administrative/organizationtransactions?
id={organizationUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getOrganizationTransactionsByDateRange

---

Return transactions for the given organization within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
Get /administrative/organizationtransactions?
id={organizationUuid}&
startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getOrganizationTransactionSummaryByCategory

---

Return summary metrics on all transactions for the given organization matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
GET /administrative/organizationtransactionssummary?
id={organizationUuid}&
    firstTxDT=YYYY-MM-DD&
    category={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getOrganizationTransactionSummaryByDay

---

Get total number of transactions (from archive) for the specified organization and date range.

### Request

```
GET /administrative/organizationtransactionssummarybyday/{flag}?
id={organizationId}&
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12},
    { "2013-10-12": 13},
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

{flag} can accept a single value from the following set {0, 1, ,2, 3, 4} with the following meaning:

- 0 -> transaction count
- 1 -> transaction amount
- 2 -> offers count
- 3 -> offers redeemed

It Defines the return value for this call.



## getGroupTransactionSummaryByDay

---

Get total number of transactions (from archive) for the specified group and date range.

### Request

```
GET /administrative/grouptransactionssummarybyday/{flag}?
id={groupUuid}&
startIndex=YYYY-MM-DD&
endIndex=YYYY-MM-DD
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  "summary": [
    { "2013-10-11": 12},
    { "2013-10-12": 13},
    { "2013-10-13": 0 },
    { "2013-10-14": 5 }
  ],
  "success": true
}
```

### Notes

{flag} can accept a single value from the following set {0, 1, 2, 3, 4} with the following meaning:

- 0 -> transaction count
- 1 -> transaction amount
- 2 -> offers count
- 3 -> offers redeemed

It Defines the return value for this call.

## getOrganizationTransactionSummaryByDateRange

---

Return summary metrics on transactions for the given organization within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
Get /administrative/organizationtransactionssummary?  
id={organizationUuid}&  
startIndex=YYYY-MM-DD&  
endIndex=YYYY-MM-DD  
HTTP/1.1  
Host: https://cortexmcpportal.com:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8  
{  
  numRcds:10812,  
  numTx:28009,  
  volTx: {currency:"USD", amount="350120"},  
  numCampaigns:30127,  
  numOpenCampaigns:5532,  
  offers:355628,  
  offersRedeemed:21232,  
  volOffersRedeemed: {currency="USD", amount="112325"},  
  numMerchants:1909,  
  distinctMccCodes:122,  
  users:19010  
}
```

### Notes

## getOrganizationReport

---

Return transaction report covering all transactions within the scope of a given Organization.  
(can be called by CortexAdmin, LicenseeAdmin only)

### Request

```
GET /administrative/organizationreport?
organization={organizationId} //only specified if user is CortexAdmin, else use current Org.
orderBy=alphabeticalA-Z
firstTxDT=YYYY-MM-DD&
lastTxDT=YYYY-MM-DD&
pageSize={pageSize}&
page={page}
rootId={UUID}
search={keyword} HTTP/1.1
Host: https://localhost:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  organizations: [
    {
      name:"McDonald's",
      uuid:"78100FC2-435B-2955-DB1F-92B30011803D",
      campaigns:100,
      offers:11000,
      offersRedeemed:2000,
      rcds: 5543,
      txTotal:13456,
      txVolume: {currency:"USD",amount:45678.21},
      growthPercentage:5.2
    },
    {etc}
  ]
}
```

### Notes

If not given, search sessionId for user type. If the usertype is a cortex admin, return all organizations for all licensees—otherwise, return all organizations for licensee in context.

growthPercentage computed using same stats for previous time period  
(of same duration)

Order-by can be:

- alphabeticalA-Z,
- alphabeticalZ-A,
- byTxTotalLowHigh,
- byTxTotalHighLow
- byTxVolumeLowHigh,
- byTxVolumeHighLow

byOffersLowHigh  
byOffersHighLow  
byGrowthLowHigh  
byGrowthHighLow  
dateAcquiredHighLow  
dateAcquiredLowHigh

## getOrganizations

---

Return all Organizations that can be viewed by current user  
(can be called by CortexAdmin, LicenseeAdmin only)

### Request

```
GET /administrative/organizations/{licenseeId}pageSize={pageSize} & lastPagingId={pagingUuid}
HTTP/1.1
Host: https://localhost:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  organizations: [
    {
      licenseeUuid:
        "0FC27810-FAFB-2924-BDB2-2B300118039D",
      name:"McDonald's",
      uuid:"78100FC2-435B-2955-DB1F-92B30011803D"
    },
    {etc}
  ]
}
```

### Notes

## getOrganizationTransactionsByRange

---

Get all transactions for an Organization since a given start date, matching an optional search-string.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
GET /administrative/organizationtransactions?
id={organizationUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      gpsLatitude:-31.4250142,
      gpsLongitude:-62.0841809,
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    }
    {etc}
  ]
}
```

### Notes

LastTxDT assumed to be System.Now

## getOrganizationTransactionSummaryByRange

---

Return summary metrics on all transactions for the organization matching a given search string and occurring after the specified date.

(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin only)

### Request

```
GET /administrative/organizationtransactionssummary?
id={organizationUuid}&
    firstTxDT=YYYY-MM-DD&
    searchString={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

LastTxDT assumed to be System.Now

## getTerminalReport

---

Return transaction report covering all transactions within the scope of a given Terminal.  
(can be called by CortexAdmin,OrganizationAdmin,GroupAdmin, Merchant)

### Request

```
GET /administrative/terminalreport?
orderby=alphabeticalA-Z
firstTxDT=YYYY-MM-DD&
lastTxDT=YYYY-MM-DD&
pageSize={pageSize}&
page={page} & lastPagingId={pagingUuid} &
terminalId = {terminalUuid} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      uuid:"3C30230D-39B9-9A96-E228-62147EF15F11",
      phoneNumber:"5052067788",
      campaigns:6,
      offers:75,
      offersRedeemed:200,
      rcds: 13,
      txTotal:32,
      txVolume: {currency:"USD",amount:78.21},
      growthPercentage:2.0
    },
    {etc}
  ]
}
```

### Notes

Not implemented yet.

Order-by can be:

- alphabeticalA-Z,
- alphabeticalZ-A,
- byTxTotalLowHigh,
- byTxTotalHighLow
- byTxVolumeLowHigh,
- byTxVolumeHighLow
- byOffersLowHigh
- byOffersHighLow
- byGrowthLowHigh
- byGrowthHighLow
- dateAcquiredHighLow
- dateAcquiredLowHigh



## getTerminals

---

Return all Terminals that can be viewed by current user  
(can be called by CortexAdmin,OrganizationAdmin,GroupAdmin, Merchant)

### Request

```
GET /administrative/terminals/{merchantUuid}?pageSize={pageSize}&
page={page} & lastPagingId={pagingUuid}
HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  terminals: [
    {
      uuid:"3C30230D-39B9-9A96-E228-62147EF15F11",
      phoneNumber:"5052067788",
      deviceId:"3343562343",
      os:"Android",
      version:"3.4",
      isActivated:true,
      modified: {},
      merchantUuid: "5F11230D-3B99-969A-E228-62147EF13C30"
    },
    {etc}
  ]
}
```

### Notes

## getTerminalTransactionsByCategory

---

Return transactions for the specified terminal matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /administrative/terminaltransactions?
id={terminalUuid}&
  firstTxDT=YYYY-MM-DD&
  category={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId: "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getTerminalTransactionsByDateRange

---

Return transactions for the given terminal within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin, Merchant)

### Request

```
Get /administrative/terminaltransactions?
  terminalId={terminalUuid}
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

## getTerminalTransactionsByRange

---

Get all transactions for a Terminal since a given start date, matching an optional search-string.

### Request

```
GET /administrative/terminaltransactions?
  terminalId={terminalUuid}
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&
  page={page} & lastPagingId={pagingUuid} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:[
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionId:
        "D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35",
      terminalUuid: "9C30230D-39B9-9A96-E228-62147EF15F11",
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

LastTxDT assumed to be System.Now

## getTerminalTransactionSummaryByCategory

---

Return summary metrics on all transactions for the given terminal matching an mcc or cortex code.  
(can be called by CortexAdmin, LicenseeAdmin, OrganizationAdmin, GroupAdmin, Merchant)

### Request

```
GET /administrative/terminaltransactionssummary?
id={terminalUuid}&
    firstTxDT=YYYY-MM-DD&
    category={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
    numRcds:10812,
    numTx:28009,
    volTx: {currency:"USD", amount="350120"},
    numCampaigns:30127,
    numOpenCampaigns:5532,
    offers:355628,
    offersRedeemed:21232,
    volOffersRedeemed: {currency="USD", amount="112325"},
    numMerchants:1909,
    distinctMccCodes:122,
    users:19010
}
```

### Notes

## getTerminalTransactionSummaryByDateRange

---

Return summary metrics on transactions for the given terminal within the specified date range.  
(can be called by CortexAdmin, LicenseeAdmin, Organization, Group Admin, Merchant)

### Request

```
Get /administrative/terminaltransactionssummary?  
  terminalId={terminalUuid}  
  startIndex=YYYY-MM-DD&  
  endIndex=YYYY-MM-DD  
HTTP/1.1  
Host: https://cortexmcpportal.com:8080  
Content-Type:application/json;charset=UTF-8  
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK  
Content-Type: application/json;charset=UTF-8  
{  
  numRcds:10812,  
  numTx:28009,  
  volTx: {currency:"USD", amount="350120"},  
  numCampaigns:30127,  
  numOpenCampaigns:5532,  
  offers:355628,  
  offersRedeemed:21232,  
  volOffersRedeemed: {currency="USD", amount="112325"},  
  numMerchants:1909,  
  distinctMccCodes:122,  
  users:19010  
}
```

### Notes

## getTerminalTransactionSummaryByRange

---

Return summary metrics on all transactions for the terminal matching a given search string and occurring after the specified date.

### Request

```
GET /administrative/terminaltransactionssummary?
  terminalId={terminalUuid}
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}
HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  numRcds:10812,
  numTx:28009,
  volTx: {currency:"USD", amount="350120"},
  numCampaigns:30127,
  numOpenCampaigns:5532,
  offers:355628,
  offersRedeemed:21232,
  volOffersRedeemed: {currency="USD", amount="112325"},
  numMerchants:1909,
  distinctMccCodes:122,
  users:19010
}
```

### Notes

LastTxDT assumed to be System.Now

## getTransactionsByCategory

---

Identical to `getTransactionsByCategory()` in Wallet API: return all transactions for a given RCD matching an mcc or cortex code.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  category={mcc}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcp.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions:
  [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To return all transactions for a given user (customer) – not just for one RCD – matching an mcc or cortex code, use `getAllTransactionsByCategory()`.



## getTransactionsByDateRange

---

Identical to `getTransactionsByDateRange()` in Wallet API: return a list of transactions for a single RCD within a specific datetime range..

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  startIndex=YYYY-MM-DD&
  endIndex=YYYY-MM-DD&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved: true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get a list of all transactions within a specific datetime range for a user (not just one RCD), use `getAllTransactionsByDateRange()`.

## getTransactionsByMerchant

---

Identical to `getTransactionsByMerchant()` in Wallet API: return a list of information for all transactions a specific RCD has conducted with a particular merchant (searching by name) since the given date.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  merchant={searchString}&
  pageSize={pageSize}&
  page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie's",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

### Notes

To get complete list of transactions with Merchant and a user (not just one RCD), use `getAllTransactionsByMerchant()`.

## getTransactionsBySearch

---

Identical to `getTransactionsBySearch()` in Wallet API: return a list of all transactions for a single RCD since a specific datetime matching the given search string.

### Request

```
GET /server/transactions?
  id = {rcdUuid}&
  firstTxDT=YYYY-MM-DD&
  searchString={searchString}&
  pageSize={pageSize}&page={page} HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  transactions: [
    {
      rcdUuid:"305F112D-23B2-2692-CC24-1362147EFF35",
      approved:true,
      cortexTransactionUuid:"D1E605F2-72A1-3393-DF79-29EFD3200047",
      processorTransactionId:"1047517213",
      date:"2013-04-15T11:21Z",
      merchant:"Sadie&apos;s",
      merchantCategory:"Category"
      merchantUuid: "305F112D-23B2-2692-CC24-1362147EFF35"
      amount: {currency:"USD",amount:19.25},
      transactionType:"CREDIT",
      transactionMethod:"QRSCANNED"
    },
    {etc}
  ]
}
```

## getUserAccount

---

Identical to Wallet API `getUserAccount()`. Returns all data for a user (customer) account.

### Request

GET /administrative/user/{userGuid} HTTP/1.1  
Host: https://localhost:8080  
Content-Type: application/json; charset=UTF-8  
Authorization: Cortex-1 <sessionGuid>

### Response

```
HTTP/1.1 201 Created
Content-Type: application/json; charset=UTF-8
accountInfo
{
  uuid: "0FC27810-FAFB-2924-BDB2-2B300118039D",
  username: "myUsername",
  email: "marner@ieee.org",
  lastActivity: 1428572911
  status: 0 /* 0=Active; 1=Suspended; 2=Deleted */
  parentUuid: "EC222100-EA3A-1906-ADD2-002B3008039D"
  accountType: 32

  /*this section is for licensees, organizations, groups and merchants only*/
  name: "organization name",
  logo: "path to logo image",
  location:
    {
      : "13009 Sandia Point NE",
      city: "Albuquerque",
      state: "NM",
      zipPostalCode: "87111",
      country: "USA"
    },
  /* this section is for merchants only */
  mccCode: 5561,
  web: "www.companyname.com",
  phones:
    [
      {cell: "5054437777"},
      {fax: "5054437778"},
      {landline: "5053447776"}
    ],
  /* end of merchants section */
  /* end of for licensees, organizations, groups and merchants section */
  /* this section for ordinalry user */
  fname: "Michael",
  lname: "Arner",
  fundingSources:
    [
      source: {id: "1234567ABCD",
        type: "3",
```

```
name:"Savings Account",
rules: {
  expires: "2013-04-15T00:00Z",
  maxTxPerDay:1,
  maxTxPerWeek:5,
  maxTxPerMonth>10,
  maxAmountPerDay>100,
  maxAmountPerWeek>500,
  maxAmountPerMonth>1000,
  mccCodes: [5814,5815,6000,7815...],
  merchants:
    ["FD322303-AA27-0916-FDF8-03002B30089E",
     "EC222100-EA3A-1906-ADD2-002B3008039D"
    ],
  ...
}
...
]
/*ordinary user section end*/
}
```

## launchOffers

---

Create offers based on matches between deals and RCDs

### Request

```
POST /administrative/launchOffers/{dealUuid} HTTP/1.1
Host: https://localhost:8080
Content-Type: application/json; charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
```

### Response

```
HTTP/1.1 202 OK
Content-Type: application/json; charset=UTF-8
{
  success:true,
  numRcdsMatched:400
}
```

### Notes

## linkRcdDeal

---

A flag will identify campaigns as part of an “open pool” – i.e. that may be searched by the customer, rather than merely sent to appropriate rcds by the merchant. This call will create an offer linking the campaign and the rcd.

### Request

```
POST /server/linkRcdDeal HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  campaignUuid:"FB421402-322A-9532-E2A1-18053930A80",
  rcdUuid:"402FB321-A326-5629-E126-6801605FE3A"
}
```

### Response

```
HTTP/1.1 201 Created
Content-Type: application/json;charset=UTF-8
{
  success:true,
  offerUuid:"AF442103-3A3E-5936-D2AD-40B300802392"
}
```

### Notes

Not implemented yet.

## searchDealPool

---

A flag will identify deals as part of an “open pool” – i.e. that may be searched by the customer, rather than merely sent to appropriate rcds by the merchant. This call identifies deals in this open pool—linkRcdDeal will create an offer linking the deal and the rcd.

### Request

```
GET /server/searchdealpool HTTP/1.1
Host: https://cortexmcpportal.com:8080
Content-Type: application/json;charset=UTF-8
Authorization: Cortex-1 <sessionUuid>
{
  keywords: ["DVD",{etc}.],
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  deals: [
    dealUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ec1",
    dealName:"Deal Name",
    consumerMessage:"Consumer message",
    merchantMessage:"Merchant message",
    merchantUuid:"fd4e8024-e0f2-11e4-8a00-1681e6b88ea2",
    images:["path1", "path2", etc],
    isTagged:"true"
  ]
}
```

### Notes



## suspendUserAccount

---

Identical to Wallet API suspendUserAccount(). Marks a user (customer) account as suspended: all data retained but login will not succeed until account is reactivated.

### Request

```
POST /administrative/suspendUser/{uuid} HTTP/1.1
Host: https:// cortexmcportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
```

### Response

```
HTTP/1.1 200 OK
```

### Notes

## createFundingSource

---

Create funding sources available for a given user.

### Request

```
POST /administrative/createfundingsource/{userid} HTTP/1.1
Host: https:// cortexmcpportal.com:8080
Content-Type:application/json;charset=UTF-8
Authorization: Cortex-1 <organizationUuid:securityToken>
{
  fundingSources:
    [
      {
        type:"3",
        name:"Savings Account",
        rules: {
          expires: "2013-04-15T00:00Z",
          maxTxPerDay:1,
          maxTxPerWeek:5,
          maxTxPerMonth>10,
          maxAmountPerDay>100,
          maxAmountPerWeek>500,
          maxAmountPerMonth>1000,
          mccCodes: [5814,5815,6000,7815...],
          merchants: [ "FD322303-AA27-0916-FDF8-03002B30089E",
            "EC222100-EA3A-1906-ADD2-002B3008039D",
              etc
            ],
          },
        {etc}
      ]
    ]
}
```

### Response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
{
  success:true,
  uuid:"EC222100-EA3A-1906-ADD2-002B3008039D",
}
```

### Notes

Type is Cortex FundingSourceType Id

## editFundingSource

---

Create/Update funding sources available for a given user.

### Request

POST /administrative/editfundingsource/{userid} HTTP/1.1

Host: https:// cortexmcpportal.com:8080

Content-Type: application/json; charset=UTF-8

Authorization: Cortex-1 <organizationUuid:securityToken>

```
{
  fundingSources:
    [
      {
        fundingSourceUuid:"1234567ABCD",
        type:"3",
        name:"Savings Account",
        rules: {
          expires: "2013-04-15T00:00Z",
          maxTxPerDay:1,
          maxTxPerWeek:5,
          maxTxPerMonth>10,
          maxAmountPerDay>100,
          maxAmountPerWeek>500,
          maxAmountPerMonth>1000,
          mccCodes: [5814,5815,6000,7815...],
          merchants: [ "FD322303-AA27-0916-FDF8-03002B30089E",
            "EC222100-EA3A-1906-ADD2-002B3008039D",
            etc
          ],
        },
        {etc}
      ]
    ]
}
```

### Response

HTTP/1.1 200 OK

Content-Type: application/json; charset=UTF-8

### Notes

Type is Cortex FundingSourceType Id