



SEITO Version 3.1

Coupon Management System (CMS)

Interface Specification

(For Cafe de Coral)

Document Version: 3.2.1

Date: 2024-05-31

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Document History:

Version	Date	Handled by	Changes
1.00	2020-Jun-26	Kevin Chow	Release first version
1.10	2020-Jul-02	Kevin Chow	Updated "Upload Coupon Tran" and "Get Coupon Status" api
2.00	2020-Jul-10	Kevin Chow	Updated "Get CMS Master", "Issue Coupon" and "Get Coupon Status" api
2.01	2021-Feb-16	Kevin Chow	Update API login and password
3.00	2021-Aug-06	Kevin Chow	Update "Upload Coupon Tran" added "Amount"
3.01	2023-Oct-25	Kevin Chow	Add parameter "IssueMember" under UploadCouponTran request
3.1	2024-05-08	Chris Sham	Add API - Get Member Coupon List
3.2	2024-05-09	Chris Sham	Add API - Get Coupon Summary
3.2	2024-05-09	Chris Sham	Add Appendix B - Coupon Status List
3.2	2024-05-14	Chris Sham	Add error code 22 - Invalid member code length Add error code 23 - Invalid coupon category code
3.2.1	2024-05-23	Chris Sham	API - UploadCouponTran Request remove Remark Request add Amount
3.2.1	2024-05-31	Chris Sham	API - GetMemberCouponList request add NonMember

1. Introduction

This document is the specification of SEITO Coupon Management System information query interface. The master files will be transferred using the request-and-response HTTP protocol.

2. HTTP communication flow with SEITO Coupon Management System

For each request:

1. Connect with the following HTTP testing link:
2. Link: [↔ http://{IP Address:Port}/PosCouponWeb](http://{IP Address:Port}/PosCouponWeb) (*Case sensitive)
3. Open the connection stream
4. Write a JSON to the server
5. Wait and read the connection reply (server will also return a JSON)
6. Validate the reply

Remark:

1. All following interface content (both request & response) are **CASE SENSITIVE**.
2. The character encoding is **UTF-8**.

3. SEITO POS API

Base URL: [↔ http://{IP Address:Port}/PosCouponWeb](http://{IP Address:Port}/PosCouponWeb)

Below are the samples of system ID, initialization vector, encryption key and secret key

SystemID
AA123456 <i>(Provided Separately)</i>

Encryption Method	IV	Encryption Key
AES 128 (CBC)	12345678abcdefgh <i>(Provided Separately)</i>	abcdefghijklmnop <i>(Provided Separately)</i>

Hash Function	Secret Key
SHA-256	samplesecretkey <i>(Provided Separately)</i>

API - Get CMS Master

API	POST	/api/GetCMSMaster																												
Description	<p>Request to get the CMS master.</p> <ul style="list-style-type: none"> ➤ If all of CMSCouponCode, SeitoRefNo, IssueDate, UseDate and LastSyncTime are all blank, return Full Set Master ➤ Otherwise, return Type / Validity Section according to the parameters passed. ➤ For CMSCouponCode, return Type / Validity Section if validity code matched ➤ For SeitoRefNo, return Type / Validity Section if validity's Seito Ref. No. matched ➤ For IssueDate/UseDate, return Type / Validity Section if it lies in between Issue/Use Start Date and Issue/Use End Date (Days inclusive) ➤ For example, if there are 3 validity records: Pass IssueDate = '2018-09-01' and UseDate = '2018-11-02', return the validity records #2&3 <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>#</th> <th>SeitoRefNo</th> <th>CMSCouponCode</th> <th>IssueStartDate</th> <th>IssueEndDate</th> <th>UseStartDate</th> <th>UseEndDate</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>T0000001</td> <td>18001333221</td> <td>2018-08-01</td> <td>2018-09-01</td> <td>2018-09-01</td> <td>2018-10-01</td> </tr> <tr> <td>2</td> <td>T0000001</td> <td>18001333222</td> <td>2018-09-01</td> <td>2018-10-01</td> <td>2018-10-01</td> <td>2018-11-10</td> </tr> <tr> <td>3</td> <td>T0000005</td> <td>18001333266</td> <td>2018-09-01</td> <td>2018-11-01</td> <td>2018-11-01</td> <td>2018-12-01</td> </tr> </tbody> </table> <ul style="list-style-type: none"> ➤ For LastSyncTime, return Type / Validity Section which records were updated after LastSyncTime 		#	SeitoRefNo	CMSCouponCode	IssueStartDate	IssueEndDate	UseStartDate	UseEndDate	1	T0000001	18001333221	2018-08-01	2018-09-01	2018-09-01	2018-10-01	2	T0000001	18001333222	2018-09-01	2018-10-01	2018-10-01	2018-11-10	3	T0000005	18001333266	2018-09-01	2018-11-01	2018-11-01	2018-12-01
#	SeitoRefNo	CMSCouponCode	IssueStartDate	IssueEndDate	UseStartDate	UseEndDate																								
1	T0000001	18001333221	2018-08-01	2018-09-01	2018-09-01	2018-10-01																								
2	T0000001	18001333222	2018-09-01	2018-10-01	2018-10-01	2018-11-10																								
3	T0000005	18001333266	2018-09-01	2018-11-01	2018-11-01	2018-12-01																								

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Request data (AES 128 Method encrypted + Base 64 encoded of the JSON string of the request data)
↳ OutletID	Outlet code	String	Optional 5 Characters
↳ StationID	Station code	String	Optional 3 Characters
↳ CMSCouponCode	CMS Coupon Code	String	Optional

			Format: YYBBBMMMRRR
↳ SeitoRefNo	Seito V81 reference number : Item discount code/ Pre-defined coupon code/ Voucher code	String	Optional 8 Characters
↳ IssueDate	Issue date	Date	Optional Format: YYYY-MM-DD
↳ UseDate	Use date	Date	Optional Format: YYYY-MM-DD
↳ LastSyncTime	Last synchronized time	Date Time	Optional Format: YYYY-MM-DD hh:mm:ss
↳ CurrentTime	The current time when this API was called	Date Time	Required Format: YYYY-MM-DD hh:mm:ss
Hash	Hash value	String	Required SHA256 Hash value of the RequestData (in form of html query string) + secret key

◆ **Submit request data content**

```
{
  "OutletID": "00001",
  "StationID": "001",
  "IssueDate": "2018-09-01",
  "UseDate": "2018-11-02",
  "CurrentTime": "2018-08-24 13:20:00"
}
```

◆ **Follow the next section to [Generate request data](#)**

Generate request data

Follow these steps to generate **RequestData**:

◆ [RequestData] Submit request data in one line

```
{ "OutletID": "00001", "StationID": "001", "IssueDate": "2018-09-01", "UseDate": "2018-11-02", "CurrentTime": "2018-08-24 13:20:00" }
```

◆ [RequestData] AES-128 Method encrypted + Base 64 encoded

```
D/ZIzGP2oOMggKWqWCLLLahmQ1wjPcMldgJl3pN+3RFax64Om0hVZchjMPn3VcTRuqVjIsm2T9MboW6rNov4JJG  
XcngvuOwQFAPOv9ZhH93op1lkLS924aUoekgKH1Qg1iZUD3783YT+Lt1oNYnJTr8TJagbH3FxzVGaWfNTFso=
```

Follow these steps to generate **Hash**:

◆ [Hash] Sort ASCII code of parameter names by lexicographical sequence based on the format of "key=value"

```
CurrentTime=2018-08-24 13:20:00&IssueDate=2018-09-01&OutletID=00001&StationID=001&UseDate=2018-11-02
```

◆ [Hash] Join secret key

```
CurrentTime=2018-08-24 13:20:00&IssueDate=2018-09-01&OutletID=00001&StationID=001&UseDate=2018-11-02samplesecretkey
```

◆ [Hash] SHA-256 Hash

```
6ec3976f861a4e26ebf4112ad169dcfbf820fa6a9fc13d07cceed767daf240
```

◆ HTTP Request Sample

URL: <http://{IP Address:Port}/PosCouponWeb/api/GetCMSMaster>

POST Content:

```
{  
  "SystemID": "AA123456",  
  "RequestData": "D/ZIzGP2oOMggKWqWCLLLahmQ1wjPcMldgJl3pN+3RFax64Om0hVZchjMPn3VcTRuqVjI  
    sm2T9MboW6rNov4JJGXcngvuOwQFAPOv9ZhH93op1lkLS924aUoekgKH1Qg1iZUD3783Y  
    T+Lt1oNYnJTr8TJagbH3FxzVGaWfNTFso=",  
  "Hash": "6ec3976f861a4e26ebf4112ad169dcfbf820fa6a9fc13d07cceed767daf240"  
}
```

◇ Response parameters - Full Set Master

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	ErrorCode=0, No error (Normal

			Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	
Types	List of type	Array	
↳ Code	Type code	String	Format: BBB
↳ Desc1	Type description 1	String	
↳ Desc2	Type description 2	String	
↳ Category	Category of type	Integer	Value: 1 – Item discount coupon 2 – Pre-defined discount coupon 3 –Voucher
Groups	List of group	Array	
↳ MapCode	Map code	String	Format: MMM
↳ GroupCode	Group code	String	
↳ IssueYear	Discount coupon/ voucher issue year	Integer	Last two digit of issuing year Format : YY
↳ Type	Discount coupon/ voucher type	String	Format: BBB
↳ Desc1	Discount coupon/ voucher description 1	String	
↳ Desc2	Discount coupon/ voucher description 2	String	
↳ NominalValue	Voucher nominal value	Double	
Validity	List of validity	Array	
↳ Form	Discount coupon/ voucher form	Integer	Value: 1 – Paper 2 – Electronic
↳ ValidityNo	Validity number	String	Format: RRR
↳ GroupCode	Group code	String	Format: YYBBBMMM
↳ CMSCouponCode	CMS Coupon Code	String	Format:YYBBBMMMRRR
↳ SeitoRefNo	Seito V81 reference number :	String	

	Item discount code/ Pre-defined coupon code/ Voucher code		
↳ MaxIssueNo	Maximum number of issue	Integer	
↳ MaxUsageNo	Maximum number of usage	Integer	
↳ MaxDailyUsageNo	Maximum number of usage per day	Integer	
↳ SellingFactor	Selling Factor	Integer	
↳ IssueStartDate	Issuing start date	Date	Format: YYYY-MM-DD
↳ IssueEndDate	Issuing end date	Date	Format: YYYY-MM-DD
↳ UseStartDate	Using start date	Date	Format: YYYY-MM-DD
↳ UseEndDate	Using end date	Date	Format: YYYY-MM-DD
↳ SellingFactor	Validity selling factor	Integer	
↳ TnCDesc1	Terms and conditions desc 1	String	
↳ TnCDesc2	Terms and conditions desc 2	String	
↳ CouponImageURL	Validity image URL	String	
↳ RemainQty	Remaining coupon quantity can be issued	Integer	
Reasons	List of reason	Array	
↳ Code	Reason code	String	
↳ Desc1	Reason description 1	String	
↳ Desc2	Reason description 2	String	

◇ Sample Response

```
{
  "ErrorCode": 0,
  "ErrorMess": "Success",
  "Types": [
    {
      "Code": "001",
      "Desc1": "午餐優惠券",
      "Desc2": "午餐優惠券",
      "Category": 1
    },
    {
      "Code": "002",
      "Desc1": "午餐折扣券",
      "Desc2": "午餐折扣券",
      "Category": 2
    }
  ]
}
```

```

    }
  ],
  "Groups": [
    {
      "MapCode": "333",
      "IssueYear": 18,
      "Type": "001",
      "Desc1": "炒飯減 5 元優惠券",
      "Desc2": "炒飯減 5 元優惠券",
      "NominalValue": 0.0
    },
    {
      "MapCode": "444",
      "IssueYear": 18,
      "Type": "001",
      "Desc1": "迎新減 5 元優惠券",
      "Desc2": "迎新減 5 元優惠券",
      "NominalValue": 0.0
    }
  ],
  "Validity": [
    {
      "Form": 2,
      "ValidityNo": "22",
      "GroupCode": "18001333",
      "CMSCouponCode": "18001333222",
      "SeitoRefNo": "T0000001",
      "MaxIssueNo": 100,
      "IssueStartDate": "2018-09-01",
      "IssueEndDate": "2018-10-01",
      "UseStartDate": "2018-10-01",
      "UseEndDate": "2018-11-10"
    },
    {
      "Form": 2,
      "ValidityNo": "66",
      "GroupCode": "18001333",
      "CMSCouponCode": "18001333266",
      "SeitoRefNo": "T0000005",
      "MaxIssueNo": 10,
      "IssueStartDate": "2018-09-01",
      "IssueEndDate": "2018-11-01",
      "UseStartDate": "2018-11-01",
      "UseEndDate": "2018-12-01"
    }
  ],
  "Reasons": [
    {
      "Code": "001",
      "Desc1": "輸入錯誤",
      "Desc2": "輸入錯誤"
    },
    {

```

```

    "Code": "002",
    "Desc1": "顧客取消",
    "Desc2": "顧客取消"
  }
]
}

```

◇ Response parameters - Type / Validity Section

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	
Types	List of type	Array	
↳ (Details)	Details refer to response Full Set Master - Type parameter		
Validity	List of validity	Array	
↳ (Details)	Details refer to response Full Set Master - Validity parameter		

◇ Sample Response

```

{
  "ErrorCode": 0,
  "ErrorMess": "Success",
  "Types": [
    {
      "Code": "001",
      "Desc1": "午餐優惠券",
      "Desc2": "午餐優惠券",
      "Category": 1
    },
    {
      "Code": "002",
      "Desc1": "午餐折扣券",
      "Desc2": "午餐折扣券",
      "Category": 2
    }
  ],
  "Validity": [
    {
      "Form": 2,
      "ValidityNo": "22",
      "GroupCode": "18001333",

```

```
"CMSCouponCode": "18001333222",
"SeitoRefNo": "T0000001",
"ItemCode": "000000RR00010",
"MaxIssueNo": 100,
"IssueStartDate": "2018-09-01",
"IssueEndDate": "2018-10-01",
"UseStartDate": "2018-10-01",
"UseEndDate": "2018-11-10"
},
{
  "Form": 2,
  "ValidityNo": "66",
  "GroupCode": "18001333",
  "CMSCouponCode": "18001333266",
  "SeitoRefNo": "T0000005",
  "ItemCode": "000000RR00010",
  "MaxIssueNo": 10,
  "IssueStartDate": "2018-09-01",
  "IssueEndDate": "2018-11-01",
  "UseStartDate": "2018-11-01",
  "UseEndDate": "2018-12-01"
}
]
}
```

API - Issue Coupon

API	POST	/api/IssueCoupon
Description	Request to issue discount coupon or voucher. API will return a number of CMS Unique IDs with the requested status.	

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Refer to Generate request data
↳ OutletID	Outlet code	String	Optional 5 Characters
↳ StationID	Station code	String	Optional 3 Characters
↳ CMSCouponCode	CMS coupon code	String	Required Format :YMMMMBBBRRR
↳ Status	Discount coupon/ Voucher status	Integer	Required Value: 30 = Ready for issue 40 = Ready for use Status code refer to Appendix B - Coupon Status List
↳ Qty	Quantity of discount coupon/ voucher to be issued	Integer	Required
↳ CurrentTime	The current time when this API was called	Date Time	Required Format: YYYY-MM-DD hh:mm:ss
Hash	Hash value	String	Required Refer to Generate request data

◆ Submit request data

```
{
  "OutletID": "00001",
  "StationID": "001",
```

```

"CMSCouponCode": "18001333222",
"Status": 30,
"Qty": 3,
"CurrentTime": "2018-08-24 13:30:00"
}

```

- ◆ For the encryption and hash method, format and HTTP request sample, please refer to API - Get CMS Master [Generate request data](#)

◇ Response Parameters

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	Error Code Table, please refer appendix ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	
Qty	Quantity of issued discount coupon/ voucher	Integer	
CMSUniqueID	CMS unique ID	Array	2YYMMMBBBRRRSSSSSSCCVV
Status	Discount coupon/ Voucher status	Integer	Value: 30= Ready for issue 40 = Ready for use Status code refer to Appendix B - Coupon Status List
ExpiryDate	Expiry date of discount coupon/ voucher	Date	Format: YYYY-MM-DD
SeitoRefNo	Seito V81 item discount/ pre-defined coupon/ voucher code	String	

◇ Sample Response

```

{
  "ErrorCode": 0,

```

```
"ErrorMess": "Success",
"Qty": 3,
"CMSUnqiueID": [
  "21800133322200000013",
  "21800133322200000025",
  "21800133322200000037"
],
"Status": 30,
"ExpiryDate": "2018-11-10",
"SeitoRefNo": "T0000001"
}
```


API - Get Coupon Status

API	POST	/api/GetCouponStatus
Description	This is for validate the coupon status.	

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Refer to Generate request data
↳ OutletID	Outlet code	String	Optional 5 Characters
↳ StationID	Station code	String	Optional 3 Characters
↳ CurrentTime	Timestamp	Date Time	Required Format: YYYY-MM-DD hh:mm:ss.SSS
↳ CouponCode	Coupon code; or Coupon from / to code; or Coupon code list	String	Required 2YYMMM BBBRRRSSSSSSCCVV, 2YYMMM BBBRRRSSSSSSCCVV, 2YYMMM BBBRRRSSSSSSCCVV
↳ CouponRangeCount	Coupon range count	Integer	Optional If value > 1, CouponCode format must be "2YYMMM BBBRRRSSSSSSCCVV, 2YYMMM BBBRRRSSSSSSCCVV" to identify start and end coupon serial number.
↳ MemberCode	Member code	String	Optional Max. 20 Characters Set Member Code to match coupon's original issue member when use coupon, return error 18

			if not matched
↳ RangeBySellingFactor	Coupon range count use selling factor	Boolean	Optional True of False
↳ IncludeValidity	To include validity detail in response data	Boolean	Optional True or False
↳ IncludeGroup	To include group detail in response data	Boolean	Optional True or False
↳ IncludeType	To include type detail in response data	Boolean	Optional True or False
Hash	Hash value	String	Required Refer to Generate request data

◆ **Submit request data**

```
{
  "OutletID": "00001",
  "StationID": "001",
  "CouponCode": "21900100110100000015234",
  "CouponRangeCount": "1",
  "IncludeValidity": "True",
  "IncludeGroup": "True",
  "IncludeType": "True",
  "CurrentTime": "2018-08-24 13:45:00"
}
```

◆ **For the encryption and hash method, format and HTTP request sample, please refer to API - Get CMS Master [Generate request data](#)**

◇ **Response parameters**

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	Error Code Table, please refer appendix ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or	String	

	log		
CouponStatus	List of coupon status	Array	
↳ CouponCode	Coupon code	String	
↳ CouponFound	Indicate whether coupon is found	Boolean	True or False
↳ Status	Coupon status	String	Status code refer to Appendix B - Coupon Status List
↳ GroupCode	Coupon group code	String	
↳ TypeCode	Coupon type code	String	
↳ Validity	Coupon validity code	String	
↳ UseDateTime	Used date and time	Date Time	format: YYYY-MM-DD HH:mm:ss
↳ UseChain	Used chain code	String	
↳ UseOutlet	Used outlet code	String	
↳ DailyUseCount	Current daily used count	Integer	
↳ IssueMember	Issue member code	String	
CouponValidity	List of coupon validity	Array	
↳ (Details)	Details refer to response Full Set Master - Validity parameter		
CouponGroup	List of coupon group	Array	
↳ (Details)	Details refer to response Full Set Master - Groups parameter		
CouponType	List of coupon type	Array	
↳ (Details)	Details refer to response Full Set Master - Types parameter		

◇ Sample Response

```
{
  "CouponStatus": [
    {
      "CouponCode": "21900100110100000015234",
      "CouponFound": true,
      "Status": "50",
      "GroupCode": "19001001",
      "TypeCode": "001",
      "Validity": "19001001101",
      "UseDateTime": "2020-06-02 19:13:06",
      "UseChain": "00000001",
      "UseOutlet": "00001"
    }
  ],
  "CouponValidity": [
    {
      "Form": 1,

```

```
"ValidityNo": "01",
"GroupCode": "19001001",
"CMSCouponCode": "19001001101",
"SeitoRefNo": "CMS00001",
"ItemCode": "000000RR00010",
"MaxIssueNo": 9999,
"MaxUsageNo": 1,
"SellingFactor": 1,
"IssueStartDate": "2018-09-01",
"IssueEndDate": "2018-10-01",
"lastUpdateTime": "2019-11-29 12:00:00"
}
],
"CouponGroup": [
{
"GroupCode": "19001001",
"MapCode": "001",
"IssueYear": 19,
"Type": "001",
"Desc1": "Item Coupon",
"Desc2": "Item Coupon",
"NominalValue": 20.0
}
],
"CouponType": [
{
"Code": "001",
"Desc1": "Survey Coupon",
"Desc2": "Survey Coupon",
"Category": 3
}
],
"ErrorCode": 0,
"ErrorMess": "Success"
}
```

API - Upload Coupon Tran

API	POST	/api/UploadCouponTran
Description	This is for changing coupon status and recording transaction information when sell and use coupon.	

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Refer to Generate request data
↳ OutletID	Outlet code	String	Required Add checking when use coupon 5 Characters
↳ StationID	Station code	String	Required Add checking when use coupon 3 Characters
↳ CurrentTime	Timestamp	Date Time	Required Format: YYYY-MM-DD hh:mm:ss.SSS
↳ Chain	Chain code	String	Required Add checking when use coupon 8 Characters
↳ CouponSerialNo	Coupon Unique ID	String	Required Format :2YYMMMBBBRRRSSSSSSCCVV
↳ MemberCode	Member code	String	Optional Max. 20 Characters Set Member Code to match coupon's original issue member when use coupon, return error 18 if not matched Ignore checking if empty
↳ SalesDate	Date	Date	Required Format: YYYY-MM-DD
↳ Staff	Staff no	String	Required

			Max 10 Characters
↳ AuthoriseStaff	Authorise Staff no	String	Optional Max 10 Characters
↳ Action	Action	String	Required CREA - CREATE ISSU - ISSUE SELL - SELL XSEL - CANCEL SELL USEC - USE XUSE - CANCEL USE CSTU - CHANGE STATUS
↳ TranStation	Transaction by station	String	Optional
↳ TranIndex	Transaction index	String	Optional
↳ OrderIndex	Order index	String	Optional
↳ PayIndex	Payment index	String	Optional
↳ RefNum	Reference no	String	Optional
↳ ToStatus	Change status	String	Required 30 – Ready for sell 40 – Sold 50 – Used Status code refer to Appendix B - Coupon Status List
↳ Reason		String	Optional
↳ Amount		Number	Optional
↳ ActionDateTime	Timestamp	Date Time	Required Format: YYYY-MM-DD hh:mm:ss.SSS
↳ Standalone	Offline Mode	Boolean	Optional True or False
↳ IssueMember	Member code to update	String	Optional Max. 20 Characters Update issue member field for any non-null value

Hash	Hash value	String	Required Refer to Generate request data
------	------------	--------	--

◆ **Submit request data**

```
{
  "OutletID": "00001",
  "StationID": "001",
  "Chain": "00000001",
  "CouponSerialNo": "21800133322200000013",
  "SalesDate": "2018-08-24",
  "Action": "SELL",
  "RefNum": "01118",
  "ToStatus": "40",
  "ActionDateTime": "2018-08-24 13:45:00",
  "IssueMember": "1234567890ABCDEFGHIJ"
}
```

◆ **For the encryption and hash method, format and HTTP request sample, please refer to API - Get CMS Master [Generate request data](#)**

◇ **Response parameters**

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	Error Code Table, please refer appendix ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	

◇ **Sample Response**

```
{
  "ErrorCode": 0,
  "ErrorMess": "Success"
}
```

API - Get Member Coupon List

API	POST	/api/GetMemberCouponList
Description	Get coupon list and related information of a specific member.	

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Refer to Generate request data
↳ OutletID	Outlet code	String	Optional 5 Characters
↳ StationID	Station code	String	Optional 3 Characters
↳ CurrentTime	Timestamp	Date Time	Required Format: YYYY-MM-DD hh:mm:ss.SSS
↳ MemberCode	Member code	String	Match coupon's original issue member
↳ FromDate	Search from date	Date	Optional Filter coupon with issue date, sold date or use date after FromDate
↳ ToDate	Search to date	Date	Optional Filter coupon with issue date, sold date or use date before ToDate
↳ Status	Coupon status	String	Optional Filter coupon with specific status Can be multiple values e.g. 30,40 Status code refer to Appendix B - Coupon Status List
↳ IncludeValidity	To include validity detail in response data	Boolean	Optional True or False

↳ IncludeGroup	To include group detail in response data	Boolean	Optional True or False
↳ IncludeType	To include type detail in response data	Boolean	Optional True or False
↳ AllMember	Filter coupon with member	Boolean	Optional True or False
↳ NonMember	Filter coupon without member	Boolean	Optional True or False SoldRefNum or UseRefNum must be provided when NonMember is true
↳ ValidityUseEndDateFrom	Filter coupon with validity use end date	Date	Optional Filter coupon with validity use date after ValidityUseEndDateFrom
↳ ValidityUseEndDateTo	Filter coupon with validity use end date	Date	Optional Filter coupon with validity use date before ValidityUseEndDateTo
↳ SoldRefNum	Sold reference number of the transaction	String	Optional Filter coupon with sold ref. num.
↳ UseRefNum	Use reference number or the transaction	String	Optional Filter coupon with use ref. num.
↳ CouponTypeCode	Coupon type code / list	String	Optional Filter coupon it's type
Hash	Hash value	String	Required Refer to Generate request data

◆ Submit request data

```
{
  "MemberCode": "34562345",
  "FromDate": "2020-10-10",
  "ToDate": "2022-10-10",
  "Status": "40",
  "IncludeValidity": true,
  "IncludeGroup": true,
  "IncludeType": true,
  "OutletID": "00001",
  "StationID": "001",
```

```
"CurrentTime": "2023-02-09 18:16:06.753"
```

```
}
```

- ◆ For the encryption and hash method, format and HTTP request sample, please refer to API - Get CMS Master [Generate request data](#)

◇ Response parameters

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	Error Code Table, please refer appendix ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	
Coupons	List of member coupon	Array	
↳ CouponCode	Coupon code	String	
↳ Status	Coupon status	String	Status code refer to Appendix B - Coupon Status List
↳ Validity	Coupon validity code	String	
↳ GroupCode	Coupon group code	String	
↳ TypeCode	Coupon type code	String	
↳ UseDateTime	Used date and time	Date Time	format: YYYY-MM-DD HH:mm:ss
↳ UseChain	Used chain code	String	
↳ UseOutlet	Used outlet code	String	
Validity	List of coupon validity	Array	
↳ (Details)	Details refer to response Full Set Master - Validity parameter		
Groups	List of coupon group	Array	
↳ (Details)	Details refer to response Full Set Master - Groups parameter		
Types	List of coupon type	Array	
↳ (Details)	Details refer to response Full Set Master - Types parameter		

◇ Sample Response

```
{
  "Coupons": [
    {
      "CouponCode": "21900100110100000015234",
      "Status": "50",
      "Validity": "19001001101",
      "GroupCode": "19001001",
      "TypeCode": "001",
      "UseDateTime": "2020-06-02 19:13:06",
      "UseChain": "00000001",
      "UseOutlet": "00001"
    }
  ],
  "Types": [
    {
      "Code": "001",
      "Desc1": "Survey Coupon",
      "Desc2": "Survey Coupon",
      "Category": 3
    }
  ],
  "Groups": [
    {
      "GroupCode": "19001001",
      "MapCode": "001",
      "IssueYear": 19,
      "Type": "001",
      "Desc1": "Item Coupon",
      "Desc2": "Item Coupon",
      "NominalValue": 20.0
    }
  ],
  "Validity": [
    {
      "Form": 1,
      "ValidityNo": "01",
      "GroupCode": "19001001",
      "CMSCouponCode": "19001001101",
      "SeitoRefNo": "CMS00001",
      "ItemCode": "000000RR00010",
      "MaxIssueNo": 9999,
      "MaxUsageNo": 1,
      "MaxDailyUsageNo": 1,
      "IssueStartDate": "2018-09-01",
      "IssueEndDate": "2018-10-01",
      "UseStartDate": "2019-01-01",
      "UseEndDate": "2019-12-31",
      "SellingFactor": 1,
      "LastUpdateTime": "2019-11-29 12:00:00",
      "TnCDesc1": "",
      "TnCDesc2": "",
      "CouponImageURL": "http://remote.server.url/19001221186.png",
      "RemainQty": 9999975,
    }
  ]
}
```

```
        "ValidateMember": false
    }
],
"ErrorCode": 0,
"ErrorMess": "Success"
}
```

API - Get Coupon Summary

API	POST	/api/GetCouponSummary
Description	Get coupon summary info group by coupon type	

◆ Request body Parameters

Name	Description	Type	Remarks
SystemID	System type	String	Required
RequestData	Request data	String	Required Refer to Generate request data
↳ OutletID	Outlet code	String	Optional 5 Characters
↳ StationID	Station code	String	Optional 3 Characters
↳ CurrentTime	Timestamp	Date Time	Required Format: YYYY-MM-DD hh:mm:ss.SSS
↳ CouponCategoryCode	The category of coupon type	String	Required T = Item Discount B = Bill Discount V = Voucher R = Item Redeem coupon
↳ MemberCode	Member code to check	String	Required Max. 20 Characters To match coupon's issue member
↳ Status	Coupon status	String	Required Filter coupon status Status code refer to Appendix B - Coupon Status List
Hash	Hash value	String	Required Refer to Generate request data

◆ **Submit request data**

```
{
  "CouponCategoryCode": "V",
  "MemberCode": "012345678",
  "Status": "40",
  "OutletID": "00001",
  "StationID": "001",
  "CurrentTime": "2023-02-09 18:16:06.753"
}
```

◆ **For the encryption and hash method, format and HTTP request sample, please refer to API - Get CMS Master** [Generate request data](#)

◇ **Response parameters**

Name	Description	Type	Remarks
ErrorCode	Request function result code	Integer	Error Code Table, please refer appendix ErrorCode=0, No error (Normal Status) ErrorCode!=0, Error occurs, terminal should prompt a suitable error message
ErrorMess	Error message to be displayed or log	String	
CouponSummaries	List of coupon summary	Array	
↳ CouponTypeCode	Coupon type code	String	
↳ Count	Coupon count	Integer	Count number of coupon
↳ ValueTotal	The total of all coupons' group value	Number	Sum of number of coupon multiply by coupon group value

◇ **Sample Response**

```
{
  "CouponSummaries": [
    {
      "CouponTypeCode": "001",
      "Count": 12,
      "ValueTotal": 60.0
    }, {
      "CouponTypeCode": "002",
      "Count": 8,
```

```
    "ValueTotal": 80.0
  }, {
    "CouponTypeCode": "028",
    "Count": 5,
    "ValueTotal": 50.0
  }, {
    "CouponTypeCode": "033",
    "Count": 16,
    "ValueTotal": 320.0
  }, {
    "CouponTypeCode": "037",
    "Count": 3,
    "ValueTotal": 60.0
  }, {
    "CouponTypeCode": "038",
    "Count": 1,
    "ValueTotal": 50.0
  }
] ,
"ErrorCode": 0,
"ErrorMess": "Success"
}
```

4. Appendix

Appendix A - Error Code Table

Code	Description
0	Success
1	Invalid request data
2	Miss parameter
3	Invalid system id
4	System id expiry
5	Invalid hash
6	DB access error
7	Issue status must be 30 or 40
8	Status must be 30, 40, 50, 90, 99
9	Invalid CMS coupon code
10	Invalid issue qty
11	Exceeded max issue count
12	Invalid outlet length
13	Invalid station length
14	Invalid coupon status
15	Invalid coupon count
16	Exceeded max use count
17	Inconsistent coupon status
18	Member not matched
19	Invalid Chain / Outlet
20	Coupon used
21	Invalid issue member length
22	Invalid member code length
23	Invalid coupon category code

Appendix B - Coupon Status List

Code	Description
10	In progress
20	Printed
21	Reserved
30	Ready for sell
40	Sold
50	Used
81	Lost
82	Blacklist
83	Deleted
90	Expired
91	Not effective
99	Invalid