eRetail3.0 API
Docking Document

Dalian Sertag Technology Co., Ltd

Content

1.Introduce

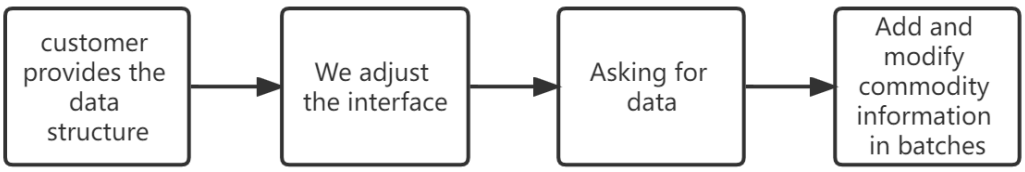
This document describes how to interconnect product data with eRetail3.0 system, which supports WebAPI, D2M platform and other interface modes. Also according to customer needs customized development.

2.Common Docking methods

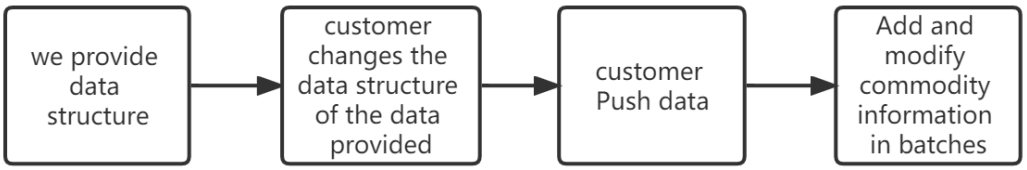
Customer developers develop interface that interconnects with eRetail's WebAPI, In this form, eRetail can act as the originator to request data voluntarily or as the receiver to receive data sent by customers.

2.1 Docking flow

Plan A: request data voluntarily, The customer provides the data structure, and we adjust the interface according to the data structure to complete the data docking.

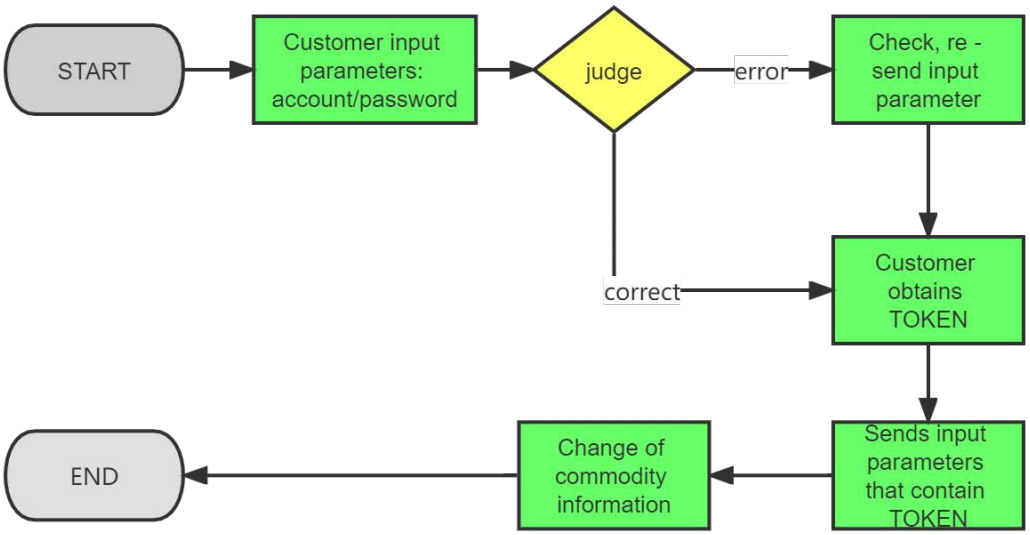


Plan B: customer Provide data, We provide data structure, and customers provide data according to our data structure to complete data docking.



2.2 Passive docking mode:

2.2.1Interface Mode description



2.2.2 Call the interface's methods

(1) Handshake interface

Usage: This interface is used for authentication. All subsequent access depends on the data obtained from this interface.

HTTP POST

URL: http:// 192.168.1.92:5000/api/login

Content-Type: application/json

Request parameters:

Parameter names	Type	Describe
userName	String	User ID
password	String	Password

Returns the parameter:

Parameter names	Type	Describe
code	Int	0: Success, Other: error
message	String	Success or error message
body	Json Node	message body
token	String	TOKEN for subsequent sessions

NOTE: After obtaining the TOKEN, You need to add this to the head of subsequent HTTP requests.AS: "Authorization: Bearer {token}"

Ex.:

Request

```
{
   "userName": "admin",
   "password": "Pass99"
```

```
}
```

Response

```
{
   "code": 0,
   "message": "success",
   "body": {
      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
   }
}
```

(2) Commodity data interface

Usage：This interface is used to add and update multiple commodity data.

HTTP POST

URL：http:// 192.168.1.92:5000/api/goods/save

Content-Type: application/json

Request parameters:

Parameter names	Type	Describe
shopCode	String	Store ID，need create a store in the system store list first
template	String	Template name，need to create a template in the template list first
items	Array String[26]	Commodity data attribute，Temporarily fixed to 26 (expandable)

NOTE：store and template creation, please contact Etag sales staff or pre-sales/after-sales support engineers.

Response：

Parameter names	Type	Describe
code	Int	0：Success，other：error
message	String	Success or error message
body	Json Node	message body
token	String	TOKEN for subsequent sessions

NOTE：After the Token is obtained, it needs to be added to the header of subsequent HTTP requests. EX.："Authorization: Bearer {token}"

EX.:

Request

```
[
  {
    "shopCode": "0001", // Shop code number

    "template": "REG", // tag template：REG-regular ， SAL-promotion，NOR-Out

of stock，MER-member customer……

    "items": [
      "A050", // Customer store number
      "123456", // Commodity unique code: it can be commodity number or
commodity barcode
      "Goods1", // Commodity name
      "123456789012", //UPC1: General product code
      "123456789013", // UPC2: General product code
      "123456789014", // UPC3: General product code

      "8.98", //price1：Retail price or original price

      "8.95", //price2：promotion price

      "8.96", //price3：member price

      "china", //origin
      "300ml", // Specifications
      "PC", //unit
      " Qualified ", //grade
      "2021/12/20", //promotion start date
      "2021/12/25", //promotion end date
      "http://www.baidu.com", //QR code
      "leaker", // Price clerk
      "5.1", //inventory
      " expand 1", // Extension field 1, no content left blank null ""
      " expand 2", // Extension field2
      " expand 3", // Extension field 3
      " expand 4",
      " expand 5",
      " expand 6",
      " expand 7",
      " expand 8",
      " expand 9",
      " expand 10"
```

```
      ]
   }
]
```

Response

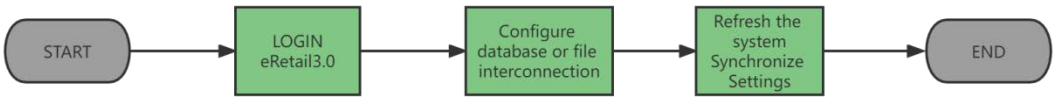
```
{
   "code": 0,
   "message": "success",
   "body": "121f5151fdfffds21cdf"
}
```

NOTE：By default, the field attributes in this example are fixed. In fact, the commodity data field content and template can be set freely.

2.3.Initiative mode

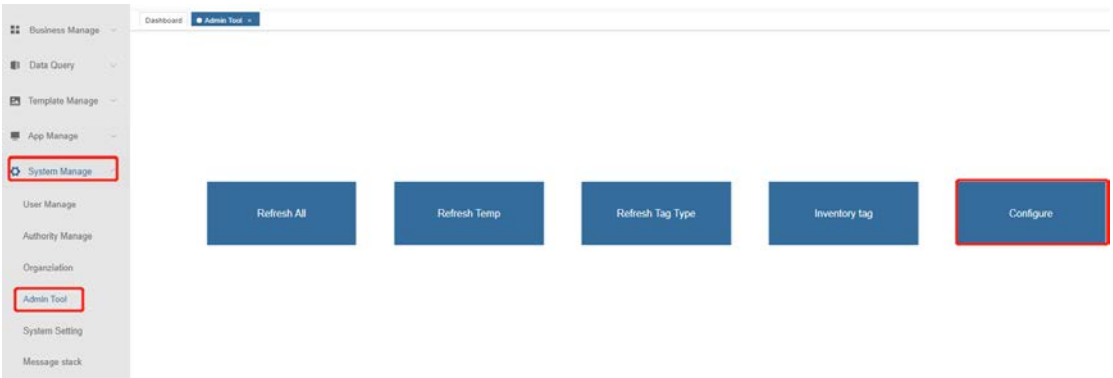
Through eRetail3.0 D2M module，Connect ERP/POS data，support use database, formatted text to docking

2.3.1 Docking flow

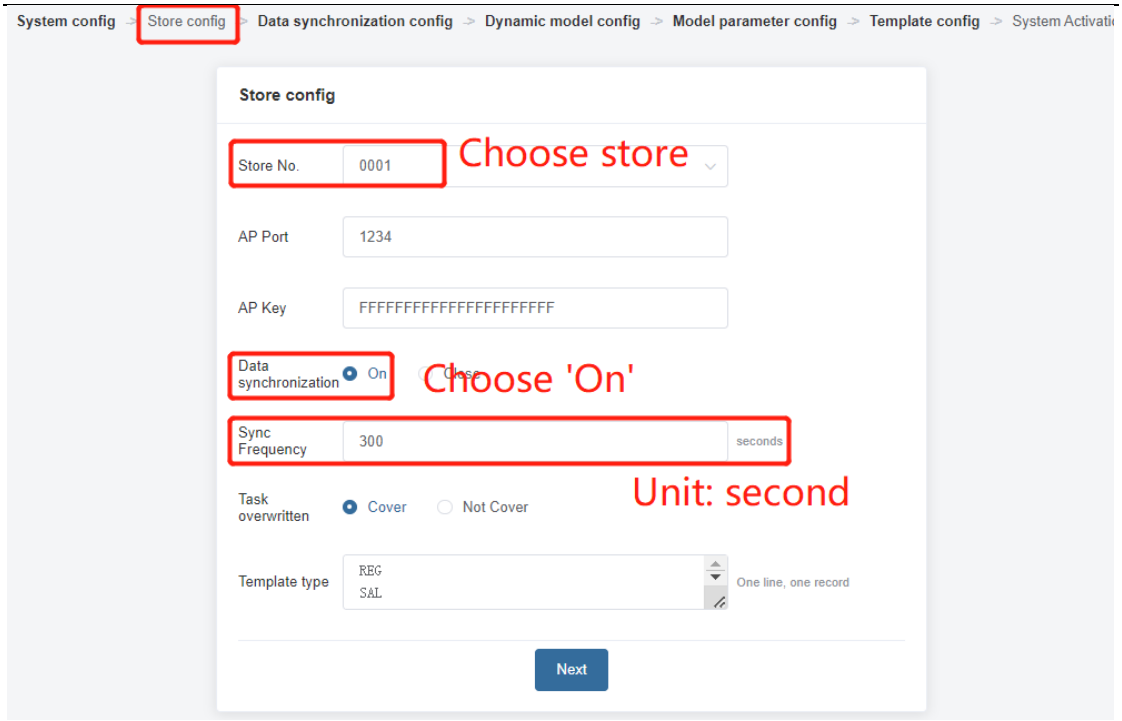


2.3.2 Database Configuration

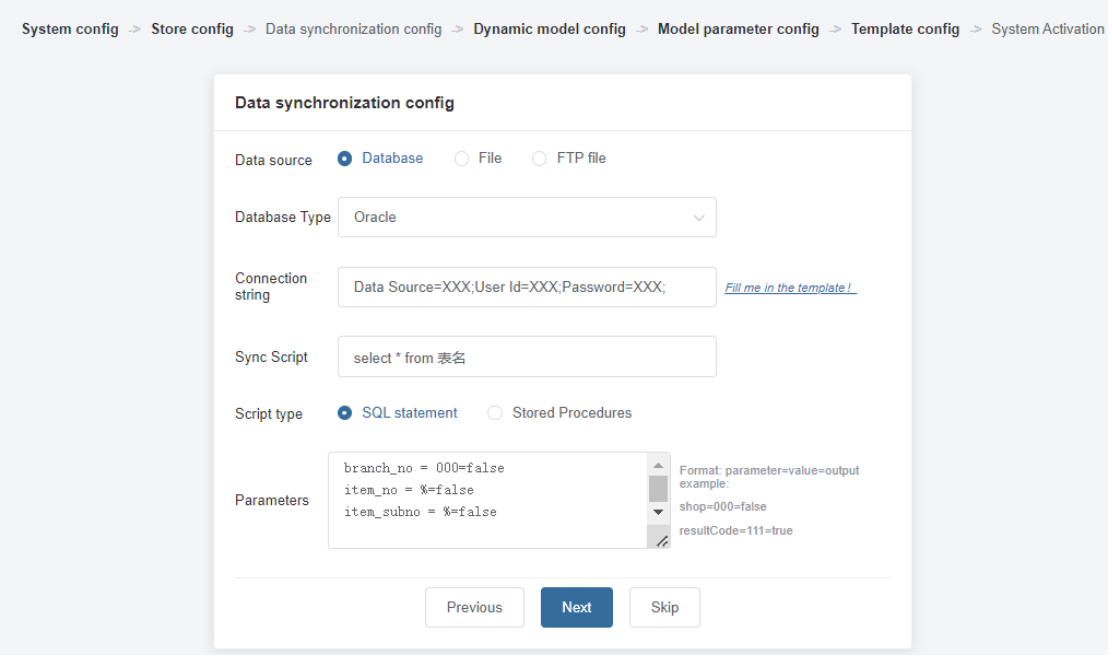
1.login eRetail3.0，Open<System Manage>-<Admin Tool>-<Configue>



2.<Store config>page，Select the one you want to synchronize，put Data synchronization on,set Sync Frequency,then,<Next>



3. <Data synchronization config>page, Choose datebase type, Complete the connection string , use<SQL Statement>type , only need write<Sync Script>;use<stored procedures>type, need write <Sync Script> and <Parameters>



Datebase type	Connection type	Sync Script	Note

SQL server	server=XXX;
	uid=XX;
	pwd=XXX;
	database=XXX;
		select * from table	server=datebase IP
			uid=UserID
			pwd=Password
			database=DBNAME

My SQL	data source=XXX;
	database=XXX;
	userid=XX;
		select * from table	data source=datebase IP;
			database=DBNAME;
			userid=UserID;

	password=XX;
	pooling=false;
	charset=utf8;
	Connect Timeout=1000000
			password=Password;
			pooling=false;（Whether to limit the number of connections in the connection pool and control the concurrency）
			charset=utf8;（Character Encoding）
			Connect Timeout=1000000;
			（Maximum connection timeout time）

Oracle	Data Source=XXX; User Id=XXX; Password=XXX	select * from table	Data Source=DBNAME（If the database is not local, you need add IP adresss before dbname）; User Id=UserID; Password=Password;
Sybase	Data Source=xxx; Initial Catalog=XXX; User id=XX; Password=XXX	select * from table	Data Source=IP; Initial Catalog=DBNAME; User id=UserID; Password=Password

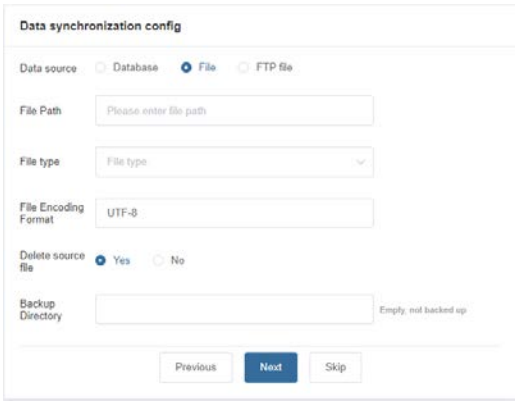
Ex.: Sync Script: select t.*, t.item_no, t.item_subno from EXAM t
parameters: branch_no = 000
item_no = %
item_subno = %

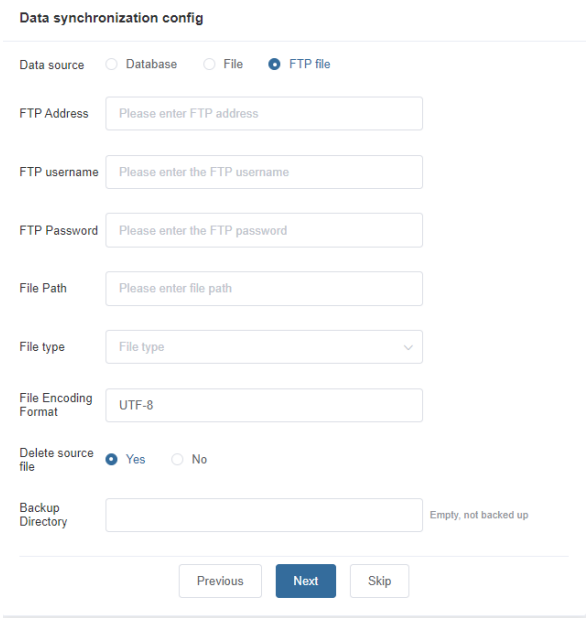
2.3.3 Formatted text Configuration

Local upload and FTP upload are supported, Local upload need provide FilePath;FTP upload need provide IP,FTP UserID,Password and FilePath.

File type: xlsx, xls, csv, txt

File Encoding Format: UTF-8

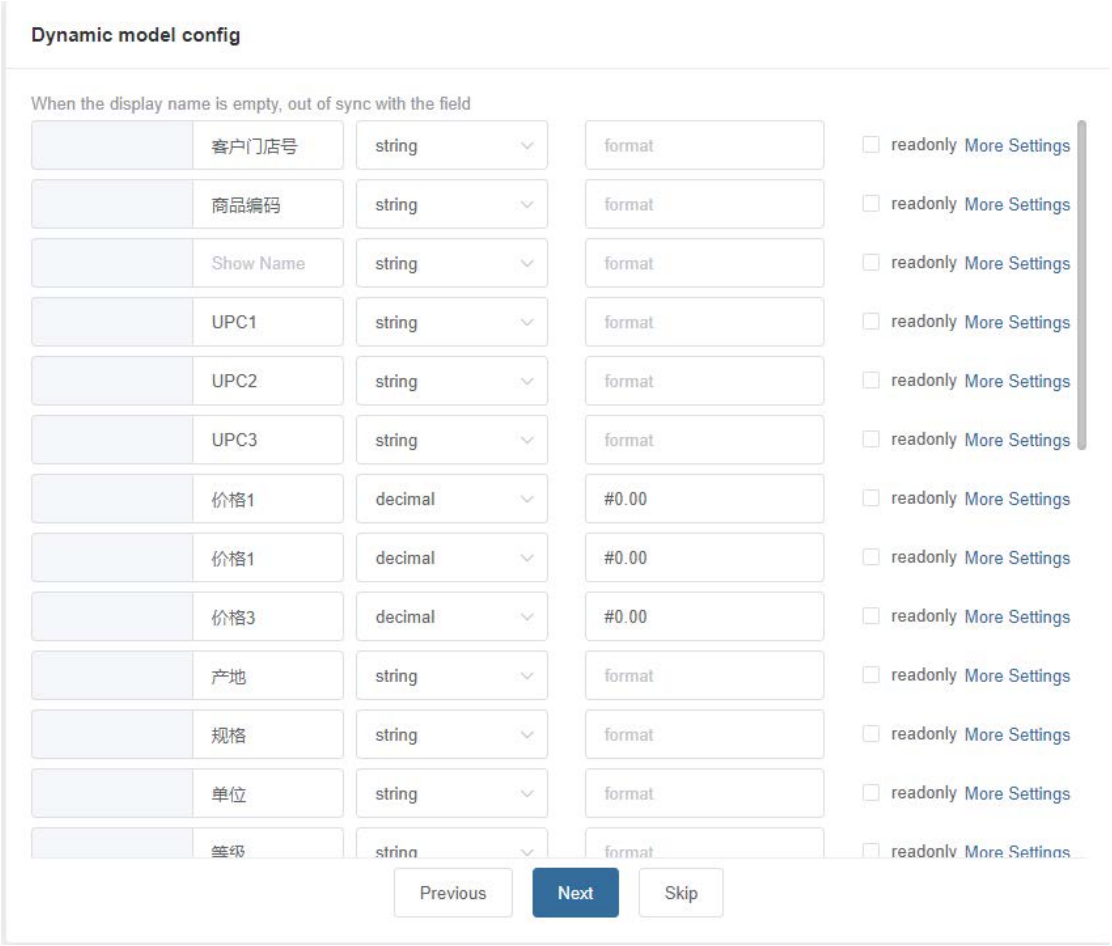




2.3.4 Dynamic model config

After finish datebase/Formatted text Configuration , <Dynamic model config>page,If data synchronization succeeds, the query table fields can be obtained successfully.Fill the < Show Name > box with the name to display for this

field，When the display name is empty, out of sync with the field.



Type：string,dataTime,decimal,int

3.Customized

If the above general docking methods are not available or you have special requirements, eRetail3.0 supports customized software interfaces on demand.

The demander will provide the docking method and data structure, which will be customized and developed by our company after evaluating the demand.