Liftians WMSAPI

Documentation

Version	Date	Author	Description
1.0	20190103	Zhenli.weng	
1.2	20190126	Zhenli.weng	

Release Notes

Update 2/12 2019
Add LANGUAGE
    CANCEL_DELIVERY_ORDER

Update 2/10 2019
GET_ORDER_LIST : Add type   Distinguish normal or a watch order
               Add BinBarCode

Update 2/2 2019
GET_ORDER_LIST add pageNum

Update 1/26 2019
ADD：   CHANGE_LANGUAGE

Update：   LOGIN

          GET_RECEIVE_PRODUCT_INFO

Table of Contents

NOTE

Httpapi:http://xxxx.com:8080/wms/api

Websocket : ws://localhost:8080/api

TOKEN:

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJUb2tlbiI6ImZlMTIyODg0LWVlZmQtNDYxMy05NDczLTc1NzEyNWY2MWExNyIsImV4cCI6MTU3NzUzNTU4NSwiaWF0IjoxNTQ1OTk5NTg1LCJqd GkiOiJiY2FmYmMxMi05MGMzLTQ1ZTItODJlNC1lOTQzMDEwZTI5MmIifQ.KFVR-WWuVoU3phBnVK5kDdxnYuds8Z28Ts1SINuMpq8

This token is only used when logging in. Other api use the dynamic token returned by Login.

Request Type: POST
MessageId: Created by UUID

About result:
Data only have values when result = 1

About request:
```
{
 "data": {
        "password": "lancy",
        "username": "lancy"
         },
 "messageType": "LOGIN",
 "msgId": "230bc568-4550-453b-a9b4-e4323c19b84b",
 "token": "<TOKEN>"
}
```

About result:

```
{
    "liftians": {
        "msgId": "2692e8b9-2898-4e79-8dc0-2c2645c89f60",
        "result": "1",
        "data": {
            "userId": 1,
            "token": <UUID>

        }
    }
}
```

The format is fixed

The most important is messageType and data

result=1 success

MessageType

```
BASE(0, 0, null, "Base Type to keep reference, DO NOT USE"),

NO_LOGIN(1, 1, BASE, "This api is no login"),
TEST(2, 101, NO_LOGIN, "Only test"),

TOKEN(2, 20, NO_LOGIN, "Create token"),
LOGIN(2, 21, NO_LOGIN, "Stations and mobile login"),
STAT_TYPE(2, 22, NO_LOGIN, "Get stat and type"),
ADD_ROBOT_LOG(2, 23, NO_LOGIN, "Add robot log"),

//------- STATION MESSAGE --------------------------------
STATION(1, 2, BASE, "Only station api"),

GET_USER(2, 30, STATION, "Get user info"),
MODIFY_USER(2, 31, STATION, "Modify and Create user info"),
INVENTORY(2, 32, STATION, "Query product inventory"),
ACTIVATE_STATION(2, 33, STATION, "Activate station"),
DEACTIVATE_STATION(2, 34, STATION, "Deactivate station"),
CURRENT_UNFINISH_TASK(2, 35, STATION, "Check current unfinish task"),
LOGIN_OUT(2, 36, STATION, "Login out"),
CHANGE_LANGUAGE(2, 37,STATION, "change language" ),

START_STATION_OPERATION(2, 37, STATION, "Start station operation"),
STOP_STATION_OPERATION(2, 38, STATION, "Stop station operation"),
GET_CURRENT_POD_LAYOUT(2, 39, STATION, "Get pod layout info"),

DELIVERY(1, 3, BASE, "Delivery base api"),
GET_ORDER_LABEL(2, 50, DELIVERY, "Get order by scan barcode"),
GET_ORDER_LIST(2, 51, DELIVERY, "Get order list"),
START_DELIVERY_TASK(2, 52, DELIVERY, "Start delivery task"),
GET_STATION_ORDER_LIST(2, 53, DELIVERY, "Get station order list"),

GET_CURRENT_PRODUCT_INFO(2, 54, DELIVERY, "Get product information that is being replenish"),
PUSH_DELIVERY_PROCESS(2, 55, DELIVERY , "Outbound process confirmation interface" ),
DELIVERY_BIND_BIN(2, 56,DELIVERY, "Bind orderId and bin" ),

// ---- REPLENISH MESSAGE ----
RECEIVE(1, 4, BASE, "Replenish base api"),
GET_RECEIVE_LABEL(2,40,RECEIVE, "Get receive order info by san barcode" ),
GET_REPLENISH_LIST(2, 41, RECEIVE, "Get receive list"),
REPLENISH_BY_BILL_NO(2, 42, RECEIVE, "Replenish By Bill No"),
START_RECEIVE_TASK(2,43, RECEIVE,"Start receive task"),
GET_RECEIVE_POD_LAYOUT(2, 44, RECEIVE, "Get pod layout info"),
GET_RECEIVE_PRODUCT_INFO(2, 45, RECEIVE, "Get Product layout info"),
PUSH_RECEIVE_PROCESS(2, 46, RECEIVE , "Receive process confirmation interface" ),

SYSTEM(99, 9999, BASE, "System api"),
PING(99, 10000, SYSTEM, "Heartbeat detection");
```

ADD_ROBOT_LOG

Used by robot to send robot log to iwms

Request   Data

Params	Values
MessageType	*ADD_ROBOT_LOG*

Data	<pre>{
	 "data": {
	     "endtime": 1546704154000,
	     "error": 11,
	     "robotid": 1,
	     "starttime": 1546704154000,
	     "stat": 1
	 },
	 "messageType": "ADD_ROBOT_LOG",
	 "msgId": "16e1cd2f-7914-40a9-889e-77648592e199",
	 "token": "942af0e5-7546-43f3-a607-90f54efb709c"
	}</pre>

Response Data

Status	Response

Data	<pre>{
	    "liftians": {
	        "msgId": "16e1cd2f-7914-40a9-889e-77648592e199",
	        "result": "1",
	        "data": "Add robot log success"
	    }
	}</pre>

COMMON

LOGIN

In addition to some system interfaces, other interfaces must be logged in to be called

This is the complete interface message package,

So I only put the contents of the Data

Request   Data

Params	Values
MessageType	*LOGIN*
Body	```{ "data": { "password": "lancy", "username": "lancy" "language": "english/zh-cn" }, "messageType": "LOGIN", "msgId": "230bc568-4550-453b-a9b4-e4323c19b84b", "token": "<TOKEN>" }```

Response Data

Status	Response
1	```{ "liftians": { "msgId": "2692e8b9-2898-4e79-8dc0-2c2645c89f60", "result": "1", "data": { "userId": 1, "token": < UUID > } } }```

LOGIN_OUT

Request　Data

Params	Values
MessageType	*LOGIN_OUT*

Response Data

Status	Response
1	True or false

CHANGE_LANGUAGE

Request　Data

Params	Values
MessageType	*CHANGE_LANGUAGE*
Data	english/zh-cn

Response Data

Status	Response
1	True or false

ACTIVATE_STATION

Request　Data

Params	Values
MessageType	*ACTIVATE_STATION*
Data	{

```
            "stationId": 1,
            "userId": 1
    }
```

Response Data

Status	Response
1	True or false

DEACTIVE_STATION

Request Data

Params	Values
MessageType	*DEACTIVE_STATION*

Response Data

Status	Response
1	True or false

STAT_TYPE

Request Data

Params	Values
MessageType	*STAT_TYPE*

Status	Response
Data	TaskStat, DeliveryStat, RobotTypeStat, MessageType, MessageResultType, MessageError

Choose one |

Response Data

Status	Response
Data	[{ XXXXXXX }]

LANGUAGE

Request Data

Params	Values
MessageType	*LANGUAGE*

Data	{
	    "type": "StationTaskStat",
	    "langId": null
	}

Response Data

Status	Response
Data	[{ "id": 1116, "type": "StationTaskStat", "langId": 0, "cn": null, "tw": null, "us": "No inventory", "jp": null, "updateTime": null }]

Note: type = TaskStat/DeliveryStat/ RobotTypeStat/MessageType/MessageResultType/ MessageError

CURRENT_UNFINISH_TASK

Request Data

Params	Values
messageType	*CURRENT_UNFINISH_TASK*
Data	stationId

Response Data

Status	Response

1	```[{
	    "cnt": 4,
	    "taskType": "P"
	}, {
	    "cnt": 0,
	    "taskType": "R"
	}, {
	    "cnt": 0,
	    "taskType": "C"
	}]```

GET_CURRENT_POD_LAYOUT

Request Data

Params	Values
MessageType	*GET_CURRENT_POD_LAYOUT*

Response Data

Status	Response

Data	`[{`
	`  "locationName": "one",`
	`  "barCode": "100123",`
	`  "volume": 20,`
	`  "podId": 10,`
	`  "podSide": 0,`
	`  "shelfId": 3,`
	`  "boxId": 1`
	`}]`

DELIVERY

GET_ORDER_LABEL

In the outbound list, scan barcode to query asm api

Request   Data

Params	Values
MessageType	*GET_ORDER_LABEL*
Data	BarCode

Response Data

Status	Response

Data	{
	  "stat": 0,
	  "quantity": 1.00456,
	  "productId": 4,
	  "productBarCode": "D8V203AC2B",
	  "batch": "005",
	  "updateTime": 1546528763387,
	  "warehouse": "H180",
	  "barCode": "8656657",
	  "manufacturer": 2,
	  "unit": "GM",
	  "areaId": 0,
	  "createTime": 1546528763387,
	  "plant": "HT001",
	  "id": 0,
	  "locationCode": "1000023061"
	}

GET_ORDER_LIST

Request   Data

Params	Values
MessageType	*GET_ORDER_LIST*

Data	{
	  "stationId":1,
	  "taskStat":[1,2,3,4,5],
	  "pageNum":1,
	  "pageSize":2,
	}

Response Data

Status	Response

| Data | ```
{
 "pageNum": 100,
 "list": [{
     "stat": 0,
     "quantity": 1.00456,
     "productId": 4,
     "productBarCode": "D8V203AC2B",
     "batch": "005",
     "updateTime": 1546528763387,
     "warehouse": "H180",
     "barCode": "8656657",
     "manufacturer": 2,
     "unit": "GM",
     "areaId": 0,
     "createTime": 1546528763387,
     "plant": "HT001",
     "id": 0,
     "type": 1 normal 2 watch,
     "binBarCode":12131233,
     "locationCode": "1000023061"
     "userId": 0,
 }]
}
``` |

START_DELIVERY_TASK

Upload the id obtained from the outbound list

Request   Data

Params	Values
MessageType	*START_DELIVERY_TASK*
Data	[orderid,orderid]

Response Data

Status	Response

Data	{
	 " success ":1,
	 " error ":2,
	}

GET_STATION_ORDER_LIST

Request Data

Params	Values
MessageType	*GET_STATION_ORDER_LIST*

Data	{
	 " stationId": 1,
	 " pageNum": 1,
	 " pageSize": 2,
	}

Response Data

Status	Response

Data	{
	 "pageNum": 100,
	 "list": [{
	    "stat": 0,
	    "quantity": 1.00456,
	    "productId": 4,
	    "productBarCode": "D8V203AC2B",
	    "batch": "005",
	    "updateTime": 1546528763387,
	    "warehouse": "H180",
	    "barCode": "8656657",
	    "manufacturer": 2,
	    "unit": "GM",
	    "areaId": 0,
	    "createTime": 1546528763387,
	    "plant": "HT001",
	    "id": 0,
	    "locationCode": "1000023061"
	    "userId": 0,
	 }]
	}

GET_CURRENT_PRODUCT_INFO

Request   Data

Params	Values
MessageType	*GET_CURRENT_PRODUCT_INFO*

Response Data

Status	Response
13	**There are currently no tasks of delivery**

Data	{
	"podId": 0,
	"boxId": 0,
	"binBarCode": "12121",
	"binColor": "12121333323",
	"podSide": 121,
	"shelfId": 999999,
	"stilltask":0 or 1,
	"deliveryTask": {
	    "stat": 0,
	    "quantity": 1.00456,
	    "productId": 4,
	    "productBarCode": "D8V203AC2B",
	    "batch": "005",
	    "updateTime": 1546528763387,
	    "warehouse": "H180",
	    "barCode": "8656657",
	    "manufacturer": 2,
	    "unit": "GM",
	    "areaId": 0,
	    "createTime": 1546528763387,
	    "plant": "HT001",
	    "id": 0,
	    "locationCode": "1000023061"
	    "userId": 0,
	}
	}

PUSH_DELIVERY_PROCESS

Request   Data

Params	Values
MessageType	*PUSH_DELIVERY_PROCESS*

Data	{
	    "type": <0,1> 0=Confirm locationCode 1:push barcode
	    "barCode":"3323243343
	}

Response Data

Status	Response
14	Scan locationCode error or not correct location
15	Scan product error Or not correct product
17	Robot leaving

Data	{
	  "botLeave": false,
	  "taskProgress": 2
	}

DELIVERY_BIND_BIN

Request   Data

Params	Values
MessageType	*DELIVERY_BIND_BIN*

Data	{
	    "orderBarCode": "1111/22333/44444"
	    "binBarCode":"3323243343"
	}

Response Data

Status	Response
16	Current order repeat binding

CANCEL_DELIVERY_ORDER

Request Data

Params	Values
MessageType	*CANCEL_DELIVERY_ORDER*
Data	orderId

Response Data

Status	Response
1	Success

RECEIVE

GET_RECEIVE_LABEL

In the receive list, scan barcode to query asm api

Request Data

Params	Values
MessageType	*GET_RECEIVE_LABEL*
Data	BarCode

Response Data

Status	Response

Data	{
	 "stat": 0,
	 "quantity": 1.00456,
	 "productId": 4,
	 "productBarCode": "D8V203AC2B",
	 "batch": "005",
	 "updateTime": 1546528763387,
	 "warehouse": "H180",
	 "barCode": "8656657",
	 "manufacturer": 2,
	 "unit": "GM",
	 "areaId": 0,
	 "createTime": 1546528763387,
	 "plant": "HT001",
	 "id": 0,
	 "locationCode": "1000023061"
	}

GET_REPLENISH_LIST

Request Data

Params	Values
MessageType	*GET_REPLENISH_LIST*

Data	{
	 "stationId":1,
	 "taskStat":[1,2,3,4,5],
	 "pageNum":1,
	 "pageSize":2,
	}

Response Data

Status	Response

Data	{
	 "pageNum": 100,
	 "list": [{
	    "stat": 0,

```
            "quantity": 1.00456,
            "productId": 4,
            "productBarCode": "D8V203AC2B",
            "batch": "005",
            "updateTime": 1546528763387,
            "warehouse": "H180",
            "barCode": "8656657",
            "manufacturer": 2,
            "unit": "GM",
            "areaId": 0,
            "createTime": 1546528763387,
            "plant": "HT001",
            "id": 0,
            "locationCode": "1000023061"
            "userId": 0,
        }]
        }
```

START_RECEIVE_TASK

Post id from the receive list

Request   Data

Params	Values
MessageType	*START_RECEIVE_TASK*
Data	**[orderid,orderid]**

Response Data

Status	Response

Data	{
	" success ":1,
	" error ":2,
	}

GET_RECEIVE_PRODUCT_INFO

Request   Data

Params	Values
MessageType	*GET_RECEIVE_PRODUCT_INFO*

Response Data

Status	Response
13	**There are currently no tasks of receive**

Data	<pre>{
	 "podId": 0,
	 "boxId": 0,
	 "podSide": 121,
	 "shelfId": 999999,
	 "stilltask":0 or 1,
	 "stationTaskStat":21
	 "type":1 delivery 2 receive
	 "receiveTask": {
	    "stat": 0,
	    "quantity": 1.00456,
	    "productId": 4,
	    "productBarCode": "D8V203AC2B",
	    "batch": "005",
	    "updateTime": 1546528763387,
	    "warehouse": "H180",
	    "barCode": "8656657",
	    "manufacturer": 2,
	    "unit": "GM",
	    "areaId": 0,
	    "createTime": 1546528763387,
	    "plant": "HT001",
	    "id": 0,
	    "locationCode": "1000023061"
	    "userId": 0,
	 }
	}</pre>

PUSH_RECEIVE_PROCESS

Request Data

Params	Values
MessageType	*PUSH_RECEIVE_PROCESS*

Data	{
	   "type": <0,1,2>
	    0=Confirm locationCode 1:push barcode
	    2：change box or box is full.
	   "barCode":"3323243343
	}

Response Data

Status	Response
14	**Scan locationCode error or not correct location**
15	**Scan product error Or not correct product**
17	**Robot leaving**
4	**No delivery order**

Data	{
	   "botLeave":false,
	   "resultDesc":"Product scan success",
	   "resultId":22,
	   "taskProgress":2
	}

NOTE:

Type =2   barCode = xxxxx

1: Box A –> take out -> box B   Box A barCode =   Box A to receive

2: Box A   Box A already has product B   Box A barCode = Box A take out

3: Box A   No product   Other box barcode = other box to receive

Type =2 and   barCode = null and Box A   No product   =   Change a shelf