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# SETP\_Label\_V3 System Developer's Manual

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## Contents

1. Query PTL Tags Information.....	2
2. Update PTL Screen display .....	3
3. Callback of Update Screen Result.....	5
4. Callback of Button Event.....	6
5. Light LEDs of PTL (Battery power supply) .....	7
6. Callback of Light LEDs Result.....	9
7. Light Roadway Lights .....	9
8. Callback of Light Roadway Lights Result.....	11
9. Setting URL of User's Callback API.....	12



## 1. Query PTL Tags Information

### Introduction to the API

Query all PTL tags information

#### Basic Information

Attributes	Interface information
Status	Finished
URL	<a href="http://localhost/wms/associate/getTagsMsg">http://localhost/wms/associate/getTagsMsg</a>
Request Method	GET/POST
Content-Type	multipart/form-data

#### Request Parameters

##### Parameter Description

Attributes	Value	Required	Comment

#### Response Parameters

Attributes	Value	Types	Comment
lastOpreateTime	"2021-10-13 03:32:30"	string	Last opreate Tlme
mac	"99.97.36.55"	string	Tag mac/Tag ID
power	100	string	Battery power(0~100)
routerid	CWR000001	string	ID of BindRouter
rsssi	-26	int	Signal strength (-100 ~ 0)
showStyle	"Picking Template"	string	Using template name

#### Response Example

```
[
  {
    "lastOpreateTime": "2021-10-13 03:32:29",
    "mac": "99.97.36.55",
    "power": 100,
    "routerid": "CWR000001",
    "rsssi": -30,
```

```

    "showStyle": "Picking Template"
  },
  {
    "lastOpreateTime": "2021-10-13 03:32:30",
    "mac": "99.97.36.53",
    "power": 100,
    "routerid": "CWR000001",
    "rssi": -26,
    "showStyle": "Picking Template"
  },
  {
    "lastOpreateTime": "2021-10-13 03:32:33",
    "mac": "99.97.36.48",
    "power": 88,
    "routerid": "CWR000001",
    "rssi": -39,
    "showStyle": "Picking Template"
  }
]

```

## 2. Update PTL Screen display

### Introduction to the API

#### Update PTL Screen display

#### Basic Information

Attributes	Interface information
Status	Finished
URL	<a href="http://localhost/wms/associate/updateScreen">http://localhost/wms/associate/updateScreen</a>
Request Method	POST
Content-Type	application/json

#### Request Parameters

##### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
styleid	int	yes	Template ID
outtime	int	Yes	Lighting timeout time(s); 0 : never turn off n : turn off autoAutomatically after n seconds

ledstate	int	Yes	lightint mode; 0, always on 1, quick flash 2, slow flash
ledrgb	string	Yes	led color: red, ledrgb="ff0000"; green, ledrgb="ff00"; blue, ledrgb="ff"; yellow, ledrgb="ffff00"; white, ledrgb="ffffff"; pueple, ledrgb="ff00ff"; light blue, ledrgb="ffff"; no color, ledrgb="0"
cmdtoken	string	optional	Extended parameters, it can use for token or taskid
LGPLA	string	optional	Filed created in template
MATNR	string	optional	Filed created in template
STOCK	string	optional	Filed created in template
MENGE	string	optional	Filed created in template
QRCODE	string	optional	Filed created in template

#### Raw example

```
[
  {
    "mac": "99.96.19.66",
    "styleid": 35,
    "ledrgb": "ff00",
    "ledstate": 0,
    "outtime": 0,
    "LGPLA": "****",
    "MATNR": "****",
    "KNMAT": "****",
    "STOCK": "****",
    "BATCH": "****",
    "MENGE": "****",
    "QRCODE": "****",
    "Inventec": "****"
  },
  {
    "mac": "99.96.19.65",
    "styleid": 35,
    "ledrgb": "ff00",
    "ledstate": 0,
    "outtime": 0,
    "LGPLA": "****",
```

```

"MATNR": "****",
"KNMAT": "****",
"STOCK": "****",
"BATCH": "****",
"MENGE": "****",
"QRCODE": "****",
"Invotec": "****"
}
]

```

### Response Parameters

Attributes	Value	Types	Comment

### Response Example

```
true
```

**Note:** The fields parameters are according to the template you used. This API does not support lighting Leds of Multi-led PTL (External power supply version), only refreshing the screen.

## 3. Callback of Update Screen Result

### Introduction to the API

Notification the update result of PTL

### Basic Information

Attributes	Interface information
Status	Finished
URL	URL of user's callback API
Request Method	POST
Content-Type	application/json

### Request Parameters

### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
power	int	yes	Battery power(0~100)
result	bool	Yes	True : ok; False: failed;
cmdtoken	string	optional	Return the cmdtoken passed in the call request
lednum	string	optional	No use
message	int	Yes	数据成功; (send ok) 数据失败; (send failed) 数据发送超时; (send timeout) 唤醒失败; (wake up failed) 基站不在线; (router offline) 数据异常; (Abnormal data) 数据格式不正确, 解析失败; (incorrect data format) 参数格式不正确或参数不全; (Missing required parameters) 无法执行;(Unable to execute) 标签不存在; (Tag does not exist)

### Parameters example

```
{ "cmdtoken": "1634826092022", "lednum": 0, "mac": "99.26.99.36", "message": "数据成功", "power": 100, "result": true }
```

## 4. Callback of Button Event

### Introduction to the API

Notification of button event.

### Basic Information

Attributes	Interface information
Status	Finished
URL	URL of user's callback API
Request Method	POST
Content-Type	application/json

## Request Parameters

### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
result	bool	Yes	result=0, right-lower button; result=1, left-top button; result=2, left-middle button; result=3, left-lower button;

### Parameters Example

Json object

```
{"mac":"92.91.34.99","result":1}
```

## 5. Light LEDs of PTL (Battery power supply)

### Introduction to the API

Query all PTL tags information

### Basic Information

Attributes	Interface information
Status	Finished
URL	<a href="http://localhost/wms/associate/lightTagsLed">http://localhost/wms/associate/lightTagsLed</a>
Request Method	POST
Content-Type	application/json

## Request Parameters

### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
outtime	int	Yes	Lighting timeout time(s); 0 : never turn off n : turn off autoAutomatically after n seconds
ledstate	int	Yes	lightint mode; 0, always on 1, quick flash



			2, slow flash
ledrgb	string	Yes	led color: red, ledrgb="ff0000"; green, ledrgb="ff00"; blue, ledrgb="ff"; yellow, ledrgb="ffff00"; white, ledrgb="ffffff"; purple, ledrgb="ff00ff"; light blue, ledrgb="ffff"; no color, ledrgb="0"
cmdtoken	string	optional	Extended parameters, it can use as token or taskid
reserve	string	optional	Reserve

#### Raw example

```
[
  {
    "mac": "99.29.03.13",
    "timeout": 0,
    "ledrgb": "ffff00",
    "ledmode": 0,
    "buzzer": 0,
    "reserve": "reserve"
  },
  {
    "mac": "99.29.05.33",
    "timeout": 0,
    "ledrgb": "ff00ff",
    "ledmode": 0,
    "buzzer": 0,
    "reserve": "reserve"
  }
]
```

#### Response Parameters

Attributes	Value	Types	Comment

#### Response example

```
true
```

## 6. Callback of Light LEDs Result

### Introduction to the API

Notification the result of Light LEDs

#### Basic Information

Attributes	Interface information
Status	Finished
URL	URL of user's callback API
Request Method	POST
Content-Type	application/json

#### Request Parameters

##### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
power	int	yes	Battery power(0~100)
result	bool	Yes	true : ok; false: failed;

#### Parameters Example

```
{"mac":"99.26.39.63","power":100,"result":true}
```

## 7. Light Roadway Lights

### Introduction to the API

Light Roadway Lights all PTL tags information

#### Basic Information

Attributes	Interface information
Status	Finished
URL	<a href="http://localhost/wms/associate/ctrlShelfIndicator">http://localhost/wms/associate/ctrlShelfIndicator</a>
Request Method	POST
Content-Type	application/json

## Request Parameters

### Parameter Description

Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
timeout	int	yes	Lighting timeout time(s); 0 : never turn off n : turn off autoAutomatically after n seconds
ledrgb	string	yes	red: ff0000; red Led On green: ff00; green Led On yellow: ffff00; yellow Led On
ledstate	int	Yes	lightint mode; 0, always on 1, quick flash 2, slow flash
buzzer	int	yes	0: Buzzer off, 1: Buzzer on
reserve	string	optional	reserve

### Raw example

```
[
  {
    "mac": "99.29.03.13",
    "lednum": 1,
    "timeout": 0,
    "ledrgb": "ffff00",
    "ledmode": 0,
    "buzzer": 0,
    "cmdtoken": "123456",
    "reserve": "reserve"
  },
  {
    "mac": "99.29.05.33",
    "lednum": 1,
    "timeout": 0,
    "ledrgb": "ff00ff",
    "ledmode": 0,
```

```

    "buzzer":0,
    "cmdtoken":"123456",
    "reserve":"reserve"
  }
]

```

### Response example

```
true
```

## 8. Callback of Light Roadway Lights Result

### Introduction to the API

Notification the result of Light Roadway Lights

### Basic Information

Attributes	Interface information
Status	Finished
URL	URL of user's callback API
Request Method	POST
Content-Type	application/json

### Request Parameters

#### Parameter Description

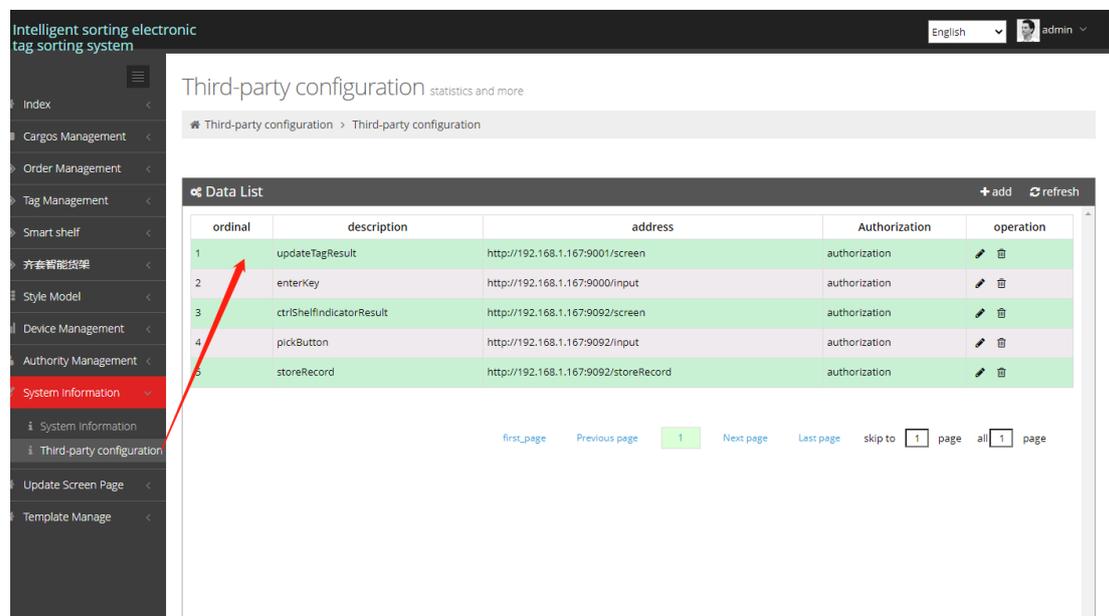
Attributes	Types	Required	Comment
mac	string	yes	Tag mac / Tag ID
result	bool	Yes	true : ok; false: failed;

### Parameters Example

```
{"mac":"99.26.39.63","result":true}
```

## 9. Setting URL of User's Callback API

Login WMS system with admin user, go to “System Information”->“Third-party configuration”, you can config the Callback URL here:



Attributes	Description	Address
Callback of Update Screen result	updateTagResult	URL of user's callback API
Callback of button event	enterKey	URL of user's callback API
Callback of Light Leds Result	ctrlShelfIndicatorResult	URL of user's callback API