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# ESL Cloud Platform Open API

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## Document History

Revision	Release Date	Changes/Notes
V5.0	2022.8.30	Release version of V5
V5.0.3	2023.8. 16	Add master account API
V5.0.5	2023.10.18	Add APP API
V5.0.11	2024.3.28	Add whitelist API
V5.0.14	2024.5.24	Use with Platform V5.14.0

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## Note:

**All API URL should match the server your account is on.**

**For example, if your account is on “cloud.minewesl.com”, replace the “minewtag” of all URL with “minewesl”.**

**If you have server privately deployed, replace the “cloud.minewtag.com/apis” with “your server domain name (or ip):9194”.**

## Part 1. Log in

URL	https://cloud.minewtag.com/apis/action/login
Request Method	POST
Content-type	application/json;charset=utf-8
API Description	Users login in to get authorization token (valid for 24hrs)

### Request Parameters

Key	Position	Type	Necessary	Example	Description
username	Body	String	Yes	“admin”	Username
password	Body	String	Yes	“fd5c1cf04c8e68ded43719f50fa81fda”	The password encrypted by MD5, in 32-bit lowercase format

### Request demo

```
{
  "username": "admin",
  "password": "fd5c1cf04c8e68ded43719f50fa81fda"
}
```

### Explanation for return code

Status Code	Description
-------------	-------------

200	Success
10024	Password should not be null
10025	The username is not existed
10026	error password

### Sample Return result

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "userInfo": "{\"admin\":false,\"autoPassWord\":\"\",\"condition\":\"\",\"confirmPassword\":\"\",\"count\":null,\"createTime\":1604884856000,\"createdBy\":\"0\",\"definePassWord\":\"\",\"description\":\"Master Account\",\"email\":\"\",\"flag\":\"1\",\"guideDisplay\":0,\"guideTime\":null,\"id\":\"1325609281856212992\",\"image\":\"\",\"loginTime\":null,\"loginname\":\"Sue\",\"merchantCode\":\"886092\",\"mobile\":\"13667280041\",\"name\":\"Sue\",\"nickname\":\"\",\"organizationNameList\":[],\"password\":\"\",\"resetPassword\":null,\"roleNameList\":[],\"salt\":\"null\",\"status\":0,\"updateTime\":null,\"updatedBy\":\"\"}",
    "hasScene": true,
    "token": "eyJhbGciOiJSUzUxMiJ9.eyJzdWIiOiIxMzI1NjA5MjgxODU2MjEyOTkyIiwiaXhwIjoxNjEwNTE4MjY2fQ.pyxprkOIePRuzYbDRX1sCYBxLTVa6jdbow5It3Z6j8-IsnFZyvrFekVCbOX9QYvMIqtowa-mgNu6XbAP1StslEMkrMSB8i3Bj0uJ8HAV3vou1cAPAVbfl94735jf_WhGk0PrZAFH8ovTg-rygPrqfx1AKiJwKer5WYEDHp_tRsU",
    "displayGuide": true
  }
}
```

## Part 2: Store API

## 2.1 Add store

URL	https://cloud.minewtag.com/apis/esl/store/add
Request Method	POST

<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Add store

## Request Parameters

Key	Position	Type	Necessary	Example	Remark
Token	Header	String	yes	token	Token value from Login
number	Body	String	yes		Store number: Unique value
name	Body	String	yes		Store name
address	Body	String	yes		Store address

## Request demo:

```
{
  "number": "003",
  "name": "roket",
  "address": "ali"
}
```

## Explanation for return code

Return code	Description
200	success
10059	no permission
12053	Failed to obtain login user information
12052	Existing store number
12100	Existing store name
54029	Store number, name, address must have
54030	Store number should only be digits

## Return result sample

```
{
  "code": 200,
  "message": "success",
  "data": {
    "storeId": "1425028090339794944"
  }
}
```

## 2.2 Modify store

URL	https://cloud.minewtag.com/apis/esl/store/update
Request Method	PUT
Content type	application/json;charset=utf-8
API Description	Modify store

## Request Parameters

Key	Position	Data type	Necessary	remarks
token	Header	String	yes	Token from login
active	Body	Integer	yes	Whether active store, 1: activate, 0 close
id	Body	String	yes	Store ID
name	Body	String	yes	Store name
address	Body	String	yes	Store address

## Request example

```
https://cloud.minewtag.com/apis/esl/store/update
{
  "id": "1470218173264433152",
  "name": "store",
  "address": "TimesSquare",
  "active": 1
}
```



## Explanation for return codes

Return code	Description
200	Success
12004	Lack of request Parameters
12036	Modify failure
54042	Not allow modify store number

## Sample code

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

## 2.3 Close / open store

<b>URL</b>	https://cloud.minewtag.com/apis/esl/store/openOrClose
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Close or open store

## Request Parameters

Key	Position	Data type	Necessary	remarks
token	Header	String	yes	Token from login
active	Params	String	yes	0: close the store, 1: open the store
storeId	Params	String	yes	Store ID

## Request example

```
https://cloud.minewtag.com/apis/esl/store/openOrClose?storeId=1470218173264433152&active=1
```

## Explanation for return codes

Return code	Description
200	Success
12004	Lack of request Parameters
12005	Operation failed, please check the network
12114	Not your store

## Sample code

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

## 2.4 Get warning information

URL	https://cloud.minewtag.com/apis/esl/warning/findAllWarnings
Request Method	GET
Content type	
API Description	Get warning information

## Request Parameters

Key	Position	Data type	Necessary	remarks
token	Header	String	yes	Token from login
storeId	Params	String	yes	
screening	Params	String	no	Brush: brush warning; upgrade: upgrade warning

## Sample code

```
https://cloud.minewtag.com/apis/esl/warning/findAllWarnings?screening=brush&storeId=1328266049345687552
```

## Explanation for return codes

Return code	Description
200	Success
10059	No permission
12053	Failed to get the uername
12052	Existing store number
12100	Existing store name

## Return result sample

```
{
  "code": null,
  "page": null,
  "size": null,
  "totalPage": null,
  "totalCount": null,
  "rows": [
    {
      "id": "60d59e80fa770c44f5de7acb",
      "mac": "ac233fd010ac",
      "gatewayMac": "AC233FC08FBF",
      "key": "3141592653589793",
      "screenSize": 3,
      "image": "",
      "imageId": 1624612250,
      "storeId": "1408232104776437760",
      "operator": "SystemRepeatPushJob",
      "commodity": "1",
      "currentVersion": null,
      "upgradeVersion": null,
      "labelpackId": null,
      "data": null,
      "operation": "brush",
      "opCode": null,
      "token": "",
      "fileSize": 9526,
      "urlSize": 0,
      "url": "",
      "bingingFailure": 0,
    }
  ]
}
```

```
{
  "bingingTotal": 0,
  "createTime": "2021-06-25 17:14:40",
  "merchantCode": "304748",
  "flag": 0,
  "serialNumber": 1624612250
}
```

## 2.5 Get store information

<b>URL</b>	https://cloud.minewtag.com/apis/esl/store/list
<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Get store information

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
active	Params	Integer	yes	1: active, 0: inactive
condition	Params	String	no	Could be store name, store no. or store address

### Sample code

```
https://cloud.minewtag.com/apis/esl/store/list?active=1
```

### Return result sample

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": "1341258324526391296",
      "uuid": null,

```

```

        "name": "hx",
        "active": 1,
        "country": null,
        "province": null,
        "city": null,
        "address": "TimesSquare",
        "serverIp": "",
        "image": "",
        "imageFullPath": null,
        "description": null,
        "latitude": null,
        "longitude": null,
        "createTime": "2020-12-22 13:44:39",
        "updateTime": "2020-12-22 13:44:39",
        "createBy": "1325609281856212992",
        "updateBy": null,
        "merchantCode": "886092",
        "remark": null,
        "deleteFlag": 0
    }
}

```

## 2.6 Get operation log information

<b>URL</b>	https://cloud.minewtag.com/apis/esl/logs/queryList
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Get operation log information

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
condition	body	String	no	Should be fuzzy mac address
actionType	body	String	no	1 represents refresh label, 2 represents upgrade

currentPage	body	Int	yes	Page of inquiry
pageSize	body	Int	yes	Set how many items are displayed on each page
objectType	body	String	yes	1 represents label, 5 represents warning light
storeId	body	String	yes	Store id

## Request example

<https://cloud.minewtag.com/apis/esl/logs/queryList>

```
{
  "currentPage": 1,
  "pageSize": 10,
  "condition": "",
  "storeId": "1430800882059972609",
  "objectType": "1",
  "actionType": ""
}
```

## Response parameters

Key	Data type	Remarks
code	Integer	See error code for details
msg	String	information
currentPage	Integer	Page of inquiry
pageSize	Integer	Number of items are displayed on each page
totalNum	Integer	Total number of items
isMore	Integer	1 represents has next page
totalPage	Integer	totalPage

startIndex	Integer	Start index
Items	List<T>	Data collection
operator	String	Operator
createTime	String	Request time: yyyy-MM-dd HH-mm-ss
actionType	String	Action type:1Refresh label, 2 Upgrade, 3 Add, 4 Delete, 5 Binding, 6 Appointed sent demand 7 Warning light
result	String	Operation result: 1 Refresh successfully 2 Refresh failed 3 Error key 4 Upgrade successfully 5 Upgrade failed 6 Invalid firmware package 7 Refresh overtime 8 Upgrade overtime 9 Abnormal screen

		10 Gateway offline  11 Template error or does not exist  12 Gateway hardware issue
--	--	--

## Return result sample

```
{
  "code": 200,
  "msg": "success",
  "currentPage": 1,
  "pageSize": 5,
  "totalNum": 16,
  "isMore": 1,
  "totalPage": 4,
  "startIndex": 0,
  "items": [
    {
      "id": "1603685134035324928",
      "operator": "Cloud_minew",
      "commodity": "",
      "labelMac": "ac233fd151c7",
      "result": "26",
      "objectType": "1",
      "actionType": "9",
      "storeId": "1430800882059972609",
      "createTime": "2022-12-16 17:35:05",
      "createBy": null,
      "updateBy": null,
      "updateTime": null,
      "merchantCode": "758165",
      "gatewayMac": "AC233FC056B8",
      "opCode": 1671183298,
      "goods": {}
    },
  ],
}
```



```
    "id": "1603685121339166720",
    "operator": "Cloud_minew",
    "commodity": "",
    "labelMac": "ac233fd151b3",
    "result": "26",
    "objectType": "1",
    "actionType": "9",
    "storeId": "1430800882059972609",
    "createTime": "2022-12-16 17:35:02",
    "createBy": null,
    "updateBy": null,
    "updateTime": null,
    "merchantCode": "758165",
    "gatewayMac": "AC233FC056B8",
    "opCode": 1671183298,
    "goods": {}
  },
  {
    "id": "1603685121314000896",
    "operator": "Cloud_minew",
    "commodity": "",
    "labelMac": "ac233fd069c2",
    "result": "26",
    "objectType": "1",
    "actionType": "9",
    "storeId": "1430800882059972609",
    "createTime": "2022-12-16 17:35:02",
    "createBy": null,
    "updateBy": null,
    "updateTime": null,
    "merchantCode": "758165",
    "gatewayMac": "AC233FC056B8",
    "opCode": 1671183298,
    "goods": {}
  },
  {
    "id": "1597874044743454720",
    "operator": "Cloud_minew",
    "commodity": "Rainetest001",
    "labelMac": "ac233fd07249",
    "result": "1",
    "objectType": "1",
    "actionType": "1",
    "storeId": "1430800882059972609",
```

```
"createTime": "2022-11-30 16:43:53",
"createBy": null,
"updateBy": null,
"updateTime": null,
"merchantCode": "758165",
"gatewayMac": "AC233FC056B8",
"opCode": 1669797791,
"goods": {
  "id": "Rainetest001",
  "storeId": "1430800882059972609",
  "QRcode": "",
  "barcode": "",
  "barcode1": "",
  "memberPrice": "123",
  "name": "123456789",
  "price": "111223",
  "specification": "スウィート",
  "unit": "987654321",
  "QRCODE": "",
  "EnglishName": "Raine",
  "ArabicName": "Raine",
  "Department": "Raine",
  "Position": "China",
  "Welcome": "Raine",
  "qrcode": "",
  "doctor": "Raine",
  "room-no": "100",
  "Patients1": "Raine",
  "Patients2": "Raine",
  "Patients3": "Raine",
  "price2": "333",
  "origin1": "Raine",
  "origin2": "Raine",
  "barcode2": "",
  "ICON1": "",
  "ICON2": "",
  "ICON3": "",
  "ICON4": "",
  "IMAGE001": "",
  "IMAGE002": "",
  "IMAGE003": "",
  "base64": "",
  "base64001": "",
  "price1": ""
```

```
}
},
{
  "id": "1597858548098797568",
  "operator": "Cloud_minew",
  "commodity": "Rainetest001",
  "labelMac": "ac233fd07249",
  "result": "1",
  "objectType": "1",
  "actionType": "1",
  "storeId": "1430800882059972609",
  "createTime": "2022-11-30 15:42:19",
  "createBy": null,
  "updateBy": null,
  "updateTime": null,
  "merchantCode": "758165",
  "gatewayMac": "AC233FC056B8",
  "opCode": 1669794094,
  "goods": {
    "id": "Rainetest001",
    "storeId": "1430800882059972609",
    "QRcode": "",
    "barcode": "",
    "barcode1": "",
    "memberPrice": "123",
    "name": "123456789",
    "price": "111223",
    "specification": "スウィート",
    "unit": "987654321",
    "QRCODE": "",
    "EnglishName": "Raine",
    "ArabicName": "Raine",
    "Department": "Raine",
    "Position": "China",
    "Welcome": "Raine",
    "qrcode": "",
    "doctor": "Raine",
    "room-no": "100",
    "Patients1": "Raine",
    "Patients2": "Raine",
    "Patients3": "Raine",
    "price2": "333",
    "origin1": "Raine",
    "origin2": "Raine",
  }
}
```

```

        "barcode2": "",
        "ICON1": "",
        "ICON2": "",
        "ICON3": "",
        "ICON4": "",
        "IMAGE001": "",
        "IMAGE002": "",
        "IMAGE003": "",
        "base64": "",
        "base64001": "",
        "price1": ""
    }
}
]
}

```

## Part 3: Data/product API

### 3.1 Query dynamic fields

#### API Description

All fields of data/product are dynamic fields which can be user-defined, except the basic fields. This API could be used when updating the user-defined fields of the data/product.

<b>URL</b>	https://cloud.minewtag.com/apis/esl/scene/findDongTaiZiDuan
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Query dynamic fields of data/product

#### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	Yes	Token value from login

## Sample code

```
https://cloud.minewtag.com/apis/esl/scene/findDongTaiZiDuan
```

## Return code description

Return code	Description
200	Success
10059	No permission
12051	Store ID can not be null
12030	Delete failure
12011	The data/product exists already

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "_id": "60af6b554149c400017c9527",
      "id": "id",
      "number": 10001,
      "columnDataType": 7,
      "name": "id",
      "description": null,
      "merchantCode": "878950",
      "prefix": null,
      "createTime": "2021-05-27 18:35:12",
      "createdBy": "1397852390207524864",
      "updateTime": "2021-05-27 18:35:12",
      "updatedBy": "1397852390207524864"
    },
    {
      "_id": "60af6b554149c400017c9528",
      "id": "name",
      "number": 10002,
      "columnDataType": 0,
      "name": "name",

```

```

    "description": null,
    "merchantCode": "878950",
    "prefix": "name:",
    "createTime": "2021-05-27 18:35:12",
    "createdBy": "1397852390207524864",
    "updateTime": "2021-05-27 18:35:12",
    "updatedBy": "1397852390207524864"
  },
  {
    "_id": "60af6b554149c400017c9529",
    "id": "specification",
    "number": 10003,
    "columnDataType": 0,
    "name": "specification",
    "description": null,
    "merchantCode": "878950",
    "prefix": "specification:",
    "createTime": "2021-05-27 18:35:12",
    "createdBy": "1397852390207524864",
    "updateTime": "2021-05-27 18:35:12",
    "updatedBy": "1397852390207524864"
  }
]
}

```

### 3.2 Add store data/product

<b>URL</b>	https://cloud.minewtag.com/apis/esl/goods/addToStore
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Add store data

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
id	body	String	yes	Data id
storeId	body	String	yes	Store id
price	body	String	no	User-defined field example, <b>ID</b> of

				data field
barcode	body	String	no	User-defined field example, <b>ID</b> of data field
qrcode	body	String	no	User-defined field example, <b>ID</b> of data field

## Request demo

```
{
  "id": "6901939721248",
  "storeId": "1328266049345687552"
  "price": "3.99"
  "barcode": "111111111111",
  "qrcode": "http://minewtag.com"
}
```

## Return codes description

Return code	Description
200	Success
10059	No permission
12051	Store ID should not be null
12030	Delete failed
12011	Data existed
12070	Store doesn't exist

## Return result example 1

```
{
  "code": 200,
  "message": "success",
  "data": null
}
```

## Return result example 2

```
{
  "code": 10059,
  "msg": "No permission",
  "data": null
}
```

### 3.3 Modify data/product (brush)

<b>URL</b>	https://cloud.minewtag.com/apis/esl/goods/updateToStore
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	modify data/product information

#### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
id	body	String	yes	Data id
storeId	body	String	yes	Store id
price	body	String	no	User-defined field example, <b>ID</b> of data field
barcode	body	String	no	User-defined field example, <b>ID</b> of data field
qrcode	body	String	no	User-defined field example, <b>ID</b> of data field

#### Request demo

```
{
  "id": "6901939721248",
  "storeId": "1328266049345687552"
  "price": "3.99"
  "barcode": "111111111111",
  "qrcode": "http://minewtag.com"
}
```



## Return codes description

Return code	Description
200	Success
10059	No permission
12051	Store ID should not be null
12030	Delete failed
12070	Store doesn't exist

## Return result example 1

```
{
  "code": 200,
  "message": "success",
  "data": null
}
```

## Return result example 2

```
{
  "code": 12070,
  "msg": "Store doesn't exist",
  "data": null
}
```

## 3.4 Modify data/product in batch (no brush)

URL	https://cloud.minewtag.com/apis/esl/goods/update
Request Method	POST
Content type	application/json;charset=utf-8
API Description	modify the existing data/product, no brush

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
storeId	Body	String	yes	Store ID

goodsList	Body	List<Map<String, Object>>	yes	Encapsulate variables that modify data in batches, <b>ID</b> of data field
opCode	Body	Integer	no	Less than 10 digits

## Request demo

```
{
  "storeId": "1415588300512563200",
  "goodsList": [{
    "id": "122222211111",
    "code": "A1001",
    "name": "apple",
    "quantity": "80",
    "specification": "900",
    "supplier": "Beijing"
  },
  {
    "id": "200",
    "code": "cw1231",
    "name": "milk",
    "quantity": "80",
    "specification": "900",
    "supplier": "Beijing"
  }
],
  "opcode": "1234567899"
}
```

## Return codes description

Return code	Description
200	Success
10059	No permission
12051	Store ID should not be null
12030	Delete failed
12070	Store doesn't exist

## Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": [{
    "code": 12070,
    "msg": "Store doesn't exist",
    "data": {
      "id": "122222211111"
    }
  },
  {
    "code": 200,
    "msg": "success",
    "data": null
  }
]
```

## Return result example 2

```
{
  "code": 10059,
  "msg": "No permission",
  "data": null
}
```

## 3.5 Delete data/product

<b>URL</b>	https://cloud.minewtag.com/apis/esl/goods/batchDelete
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Delete data/product in batch

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login

storeId	Body	String	yes	Store ID
idArray	Body	Array	yes	String

## Request demo

```
{
  "idArray": [
    "3",
    "4"
  ],
  "storeId": "1408232104776437760"
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12051	Store id can not be null

## Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

## Return result example 2

```
{
  "code": 12051,
  "msg": "Store ID can not be null",
  "data": null
}
```

### 3.6 Get data/product information

<b>URL</b>	https://cloud.minewtag.com/apis/esl/goods/getByStoreId
<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Get all the data/products of the store

#### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
page	Params	Integer	yes	Number of page
size	Params	Integer	yes	Size of each page
storeId	Params	String	yes	Store ID
fuzzy	Params	String	no	Any field names besides serial no.

#### Request demo

```
https://cloud.minewtag.com/apis/esl/goods/getByStoreId?page=1&size=10&storeId=1326340518839930880&fuzzy=11
```

#### Return codes description

Return codes	Description
200	Success
10059	No permission

#### Return result example 1

```
{
  "code": 200,
  "currentPage": 10,
  "pageSize": 10,
  "totalNum": 2,
  "isMore": null,
  "totalPage": null,
  "startIndex": null,
```

```
"items": [{
  "objectId": "5fadf90fa3ad9aa72cae4c89",
  "id": "100999",
  "barcode": 2342343,
  "qrcode": "12121212",
  "label1": "11111111",
  "label2": "",
  "label3": "111",
  "label4": "test",
  "label5": "apple",
  "label6": "666",
  "label7": "No",
  "label8": "",
  "label9": "Class1",
  "label10": "box",
  "label11": "Xinjiang",
  "label12": "Minew",
  "label13": "",
  "label14": "",
  "label15": "",
  "label16": "",
  "label17": "",
  "label18": "",
  "photo1": null,
  "photo2": null,
  "photo3": null,
  "photo4": null,
  "photo5": null,
  "status": "NotBound",
  "createTime": "2021-01-15 16:59:58",
  "updateTime": "2020-11-13 12:22:40",
  "storeId": "1326340518839930880",
  "merchantCode": null,
  "msg": null
}]
}
```

## Return result example 2

```
{
  "code": 12051,
  "msg": "Store ID can not be null",
  "data": null
}
```

## 3.7 Query the binding tag and the store it belongs to by data/product

URL	https://cloud.minewtag.com/apis/esl/goods/findByGoodsId
Request Method	GET
Content type	
API Description	Query the binding tag and the store it belongs to by data/product

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
goodsId	Params	String	yes	data/product id

### Request demo

```
https://cloud.minewtag.com/apis/esl/goods/findByGoodsId?goodsId=6901939721248
```

### Return codes description

Return codes	Description
200	Success

## Return result example 1

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "demoId": "228a6933d5f54951884ae99433ff3d2d",
      "storeId": "1328266049345687552",
      "mac": "ac233fd010aa"
    }
  ]
}
```

## Return result example 2

```
{
  "code": 10059,
  "msg": "No permission",
  "data": null
}
```

## 3.8 Add/Modify data/product in bach and brush(including turn on and off the RGB light)

<b>URL</b>	https://cloud.minewtag.com/apis/esl/goods/batchUpdateBrush
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Modify data/products in bach and brush (including turn on and off the RGB light)

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
goodsList	Body	List	yes	data/product list, <b>ID</b> of data field



storeId	Body	String	yes	Store ID
color	Body	Integer	no	Light's color: 0:off, 1:blue, 2:green, 3:red, 4:yellow, 5:white, 6:pink, 7:cyan
total	Body	Integer	no	total time = time cycle * cycles, unit: s
period	Body	Integer	no	turn-on time in one cycle, unit: ms, range:[1,interval-1]
interval	Body	Integer	no	Time cycle, unit: ms
brightness	Body	Integer	no	Light brightness: 1-100
opCode	Body	Integer	no	Operation code

### Remark:

Params like color, total, period, interval can be ignored if no operation related to the RGB light.

### Request demo

```
https://cloud.minewtag.com/apis/esl/goods/batchUpdateBrush
```

```
{
  "goodsList":[
    {
      "id": "1",
      "storeId": "1408232104776437760",
      "Reservation": "",
      "coding": "",
      "date": "",
      "meetingTime": "",
      "name": "HarryPotter",
      "theme": "",
      "author": "J.K.Rowling",
    },
    {
      "id": "2",
      "storeId": "1408232104776437760",
      "author": "Stephen William Hawking",
      "name": "A Brief Story of Time"
    }
  ],
}
```

```
{
  "storeId": "1408232104776437760",
  "total": 15,
  "period": 100,
  "interval": 900,
  "brightness": 100,
  "color": 1
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12051	Store id can not be blank or null
12070	The store doesn't exist

## Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "ac233fd010ac": {
        "code": 200,
        "msg": "success",
        "data": "ac233fd010ac"
      }
    },
    {
      "ac233fd0c37f": {
        "code": 200,
        "msg": "success",
        "data": "ac233fd0c37f"
      }
    }
  ]
}
```

## Return result example 2

```
{
  "code": 12070,
  "msg": "The store doesn't exist",
  "data": null
}
```

## Part 4: Template API

### 4.1 Query the store template list

<b>URL</b>	https://cloud.minewtag.com/apis/esl/template/findAll
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Query template information by http fuzzy keywords like template color,store id, screen information, size etc.

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
page	Params	Integer	yes	Current page
size	Params	Integer	yes	Page size
fuzzy	Params	String	no	Fuzzy query the template
color	Params	String	no	Template color
inch	Params	double	no	Template size
storeId	Params	String	yes	Store ID
screening	Params	Integer	no	0: all templates; 1: system template; other number: store template

## Request demo

```
https://cloud.minewtag.com/apis/esl/template/findAll?page=1&size=6&storeId=1341258324526391296&screening=2&inch=0&color&fuzzy
```

## Return codes description

Return code	Description
200	Success

## Return result example 1

```
{
  "code": 200,
  "msg": null,
  "data": {
    "code": null,
    "page": 1,
    "size": 6,
    "totalPage": 1,
    "totalCount": 1,
    "rows": [
      {
        "demoId": "a7cf6e2b1b79499295fb19d7b5ba2900",
        "demoName": "1.54template",
        "screenSize": {
          "inch": 2.9,
          "width": 296,
          "height": 128
        },
        "demoData": "{\\"inch\\":2.9,\\"resolution\\":{\\"width\\":296,\\"height\\":128},\\"transpose\\":0,\\"color_space\\":\\"mBW\\",\\"elements\\":{\\"0\\":{\\"id\\":\\"label1\\",\\"type\\":\\"text\\",\\"x\\":27,\\"y\\":24,\\"font_size\\":12,\\"font_family\\":\\"WqyBitmapSong_AlibabaPuhui\\",\\"align\\":\\"left\\",\\"bold\\":false,\\"prefix\\":true,\\"color\\":\\"black\\",\\"effect\\":\\"none\\",\\"static\\":false,\\"isQuick\\":false},\\"1\\":{\\"id\\":\\"label2\\",\\"type\\":\\"text\\",\\"x\\":50,\\"y\\":53,\\"font_size\\":12,\\"font_family\\":\\"WqyBitmapSong_AlibabaPuhui\\",\\"align\\":\\"left\\",\\"bold\\":false,\\"prefix\\":true,\\"color\\":\\"black\\",\\"effect\\":\\"none\\",\\"static\\":false,\\"isQuick\\":false},\\"2\\":{\\"id\\":\\"label4\\",\\"type\\":\\"text\\",\\"x\\":28,\\"y\\":89,\\"font_size\\":12,\\"font_family\\":\\"WqyBitmapSong_AlibabaPuhui\\",\\"align\\":\\"left\\",\\"bold\\":false,\\"prefix\\":true,\\"color\\":\\"black\\",
```

```

{"effect\\":\\"none\\",\\"static\\":false,\\"isQuick\\":false},\\"3\\":{\\"id\\":
\\"label9\\",\\"type\\":\\"text\\",\\"x\\":165,\\"y\\":29,\\"font_size\\":12,\\"fon
t_family\\":\\"WqyBitmapSong_AlibabaPuhui\\",\\"align\\":\\"left\\",\\"bold\\":
false,\\"prefix\\":true,\\"color\\":\\"black\\",\\"effect\\":\\"none\\",\\"static
\\":false,\\"isQuick\\":false}}}",
    "color": "black",
    "previewing": {
        "barcode": null,
        "qrcode": null,
        "label1": "66666666666666",
        "label2": "text",
        "label3": null,
        "label4": "text",
        "label5": null,
        "label6": null,
        "label7": null,
        "label8": null,
        "label9": "text",
        "label10": null,
        "label11": null,
        "label12": null,
        "label13": null,
        "label14": null,
        "label15": null,
        "label16": null,
        "label17": null,
        "photo1": null,
        "photo2": null,
        "photo3": null,
        "photo4": null,
        "photo5": null
    },
    "storeId": "1341258324526391296",
    "orientation": 0,
    "version": "2.0",
    "merchantCode": "886092",
    "type": 1,
    "modify": 1,
    "crops": []
}
]
}
}

```

## Return result example 2

```
{
  "success": false,
  "code": 10009,
  "data": null,
  "message": "parameters error"
}
```

## 4.2 Template preview for unbound data

<b>URL</b>	https://cloud.minewtag.com/apis/esl/template/previewTemplate
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Query the template preview image using the template name in the format base64

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
demoName	Param	String	yes	Template name

### Request demo

```
https://cloud.minewtag.com/apis/esl/template/previewTemplate?demoName=77411
```

### Response parameters

Key	Data type	Remarks
code	Integer	See error code for details
msg	String	information

data	Object	String for image base64
------	--------	-------------------------

## Return codes description

Return codes	Description
200	Success

## Return result example

```
{
  "code": 200,
  "msg": null,
  "data": "Qk02vAEAAAAADYAAAAoAAAAKAEAAIAAAAABABgAAAAAAC8AQDEDgAAx
A4AAAAAAAAAAAAA////////
"
```

## 4.3 Template preview for bound data

<b>URL</b>	https://cloud.minewtag.com/apis/esl/template/preview
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Query the preview image of the template with bound data, the return is in base64 format

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
demoName	Param	String	yes	Template name
id	Param	String	yes	Data id

storeId	Param	String	yes	Store id
---------	-------	--------	-----	----------

## Request demo

```
https://cloud.minewtag.com/apis/esl/template/preview?demoName=2.13&id=614420&storeId=1430466345245347840
```

## Response parameters

Key	Data type	Remarks
code	Integer	See error code for details
msg	String	information
data	Object	String for image base64

## Return codes description

Return codes	Description
200	Success

## Return result example

```
{
  "code": 200,
  "msg": null,
  "data": "Qk02vAEAAAAAADYAAAAoAAAAKAEEAIAAAAABABgAAAAAAC8AQDEDgAAx
A4AAAAAAAAAAAAA////////
"
}
```



## Part 5: Gateway API

### 5.1 Add gateway

URL	https://cloud.minewtag.com/apis/esl/gateway/add
Request Method	POST
Content type	application/json;charset=utf-8
API Description	Add gateway

#### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Body	String	yes	Gateway Mac address
name	Body	String	yes	Gateway name
storeId	Body	String	yes	Store ID

#### Request demo

```
{
  "mac": "AC233FC03CEC",
  "name": "GW-AC233FC03CEC",
  "storeId": "1328266049345687552"
}
```

#### Return codes description

Return codes	Description
200	Success
10059	No permission
12056	Gateway exists already

12055

Operation failed, please check the network and Parameters

## Return result example

```
{
  "code": 200,
  "message": "success",
  "data": null
}
```

## 5.2 Delete gateway

<b>URL</b>	https://cloud.minewtag.com/apis/esl/gateway/delete
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Delete gateway

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
id	Params	String	yes	
storeId	Params	String	yes	

## Request demo

```
https://cloud.minewtag.com/apis/esl/gateway/delete?id=1349244935877955584&storeId=1328266049345687552
```

## Return codes description

Return codes	Description
200	Success
10059	No permission

12001

Parameter is null

### Return result example 1

```
{
  "code": 200,
  "message": "success",
  "data": null
}
```

### Return result example 2

```
{
  "code": 10059,
  "msg": "No permission",
  "data": null
}
```

## 5.3 Query gateway list

URL	https://cloud.minewtag.com/apis/esl/gateway/listPage
Request Method	GET
Content type	application/json;charset=utf-8
API Description	Query gateway information in the corresponding store by HTTP

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
storeId	Params	String	yes	The store id acquired from store API
page	Params	Integer	yes	The page that query starts from
size	Params	Integer	yes	Max. Value per page

## Request demo

```
https://cloud.minewtag.com/apis/esl/gateway/listPage?page=1&size=10&storeId=1326065100695539712
```

## Response parameters

Key	Data type	Remarks
code	Integer	See return code for details
currentPage	Integer	Current page
pageSize	Integer	
TotalNum	Integer	
isMore	Integer	1 means there is a next page, 0 means there is no page
totalPage	Integer	
startIndex	Integer	
items	Object	Paging result: Contains gateway information
id	String	Gateway id
name	String	Gateway name
mac	String	Gateway mac
mode	Integer	1: online, 0: offline
storeId	String	
hardware	String	Hardware version
firmware	String	Firmware version
product	String	Product model
bluetooth	String	
wifiVersion	String	
bleVersion	String	
subModel	String	Gateway model
createTime	Date	

updateTime	Date	
createBy	String	
updateBy	String	
merchantCode	String	
remark	String	

## Return result example

```
{
  "code": 200,
  "currentPage": 1,
  "pageSize": 10,
  "totalNum": 10,
  "isMore": 0,
  "totalPage": 1,
  "startIndex": 0,
  "items": [
    {
      "id": "1331182970240765952",
      "name": "AC233FC03D99",
      "mac": "AC233FC03999",
      "mode": 0,
      "storeId": "1326065100695539712",
      "hardware": null,
      "firmware": null,
      "product": null,
      "bluetooth": null,
      "wifiVersion": null,
      "bleVersion": null,
      "subModel": null,
      "createTime": "2020-11-24 18:28:46",
      "updateTime": "2020-11-24 18:28:46",
      "createBy": "1325608932021899264",
      "updateBy": "1325608932021899264",
      "merchantCode": "997553",
      "remark": null
    },
    {
      "id": "1346352267250372608",
      "name": "AC233FC03D33",
      "mac": "AC233FC03D33",
```

```

    "mode": 0,
    "storeId": "1326065100695539712",
    "hardware": null,
    "firmware": null,
    "product": null,
    "bluetooth": null,
    "wifiVersion": null,
    "bleVersion": null,
    "subModel": null,
    "createTime": "2021-01-05 15:06:09",
    "updateTime": "2021-01-05 15:06:09",
    "createBy": "1325608932021899264",
    "updateBy": "1325608932021899264",
    "merchantCode": "997553",
    "remark": null
  }
]
}

```

## 5.4 Modify gateway information

<b>URL</b>	https://cloud.minewtag.com/apis/esl/gateway/update
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Modify gateway information in the corresponding store by HTTP

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
id	Body	String	yes	Gateway id or mac
name	Body	String	yes	Gateway name

## Request demo

```
{
  "id": "1339854807833251840",
  "name": "AC233FC03D511"
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12004	Lack of request Parameters

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

# Part 6: Device/tag API

## 6.1 Add devices in batch

URL	https://cloud.minewtag.com/apis/esl/label/batchAdd
Request Method	POST
Content type	application/json;charset=utf-8
API Description	Add devices in batch

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login

storeId	Body	String	yes	
macArray	Body	Array	yes	String format of mac addresses
type	Body	Integer	yes	1 is tag, 5 is warning light

## Request demo

```
{
  "storeId": "1588041156676",
  "macArray": [
    "ac233fd01335", "ac233fd01336"
  ],
  "type": 1
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12067	The store ID doesn't exist
12099	No device data

## Return result example 1

```
{
  "code": 12067,
  "data": null,
  "message": "The store ID doesn't exist"
}
```



## Return result example 2

```
{
  "code": 200,
  "data": {"ac233fd01335": "success", "ac233fd00708": "success"},
  "message": success
}
```

## 6.2 Wake up devices in batch according to the label mac

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/batchWake
<b>Request Method</b>	POST
<b>Content type</b>	
<b>API Description</b>	Wake up standard firmware labels in batch according to the mac. This API is only used when the label status is judged by the platform to be "offline" (For example, when a label is added for the first time or a gateway is working again after a prolonged power/network outage).

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Body	List	yes	label mac
storeId	Params	List<String>	yes	Store ID

### Request demo

```
https://cloud.minewtag.com/apis/esl/label/batchWake?storeId=1470218173264433152
["ac233fd01107", "ac233fd15126", "ac233fd01a18"]
```

### Return codes description

Return codes	Description
200	Success

10059	No permission
12014	Tags are not imported
12024	Please add gateway first
12054	Wrong parameter, please check
54015	Gateways are offline, update failed
54031	The label is offline, unable to refresh

## Request demo

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

## 6.3 Delete devices in batch

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/batchDeleteLabels
<b>Request Method</b>	POST
<b>Content type</b>	application/json
<b>API Description</b>	Delete devices in batch

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
storeId	Body	String	yes	
macs	Body	List<String>	yes	Device IDs

## Request demo

```
https://cloud.minewtag.com/apis/esl/label/batchDeleteLabels {"macs":["ac233fc03cec","ac233fc03ced"],"storeId":"1341258324526391296"}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12051	Store ID can not be null
12020	The label does not exist or the MAC address is wrong

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "code": 200,
      "msg": "success",
      "data": null
    },
    {
      "code": 200,
      "msg": "success",
      "data": null
    }
  ]
}
```

## 6.4 Get device list

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/cascadQuery
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Query device list

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token from login

page	Params	Integer	yes	Current page
size	Params	Integer	yes	Page size
storeId	Params	String	yes	Store id
fuzzy	Params	String	no	like: 2.13
eqstatus	Params	List<Integer>	yes	Tag status: 1. offline, 2. online, 5. low battery, 8. bound data, 9. unbound data
type	Params	Integer	yes	Device type: 1 represents tag; 2 represents warning light

## Request demo

<https://cloud.minewtag.com/apis/esl/label/cascadQuery?page=1&size=10&storeId=1328266049345687552&eqstatus=2,3&type=1>

## Response parameters

Key	Data Type	Remark
code	Integer	See return code description
currentPage	Integer	Current page num
pageSize	Integer	Size of each page
totalNum	Integer	
isMore	Integer	Is there next page
totalPage	Integer	
startIndex	Integer	
items	Object	
id	String	Device id

mac	String	Device mac address
type	Integer	1: ESL; 2: Warning light
screenSize	String	
activeKey	String	activeKey
battery	Integer	Battery level percentage
lastUpdate	Date	
heartbeat	String	
firmware	String	Firmware version
hardware	String	
manufacturer	String	
storeId	String	
temperature	Double	
rsi	Integer	
createTime	Date	
updateTime	Date	
create_by	String	
update_by	String	
merchantCode	String	
remark	String	
doubleSide	String	1: single screen;  2: double-sided screen

firmwareType	String	0: standard firmware; 1: regular broadcast firmware
isOnline	String	1: offline, 2: online

## Return codes description

Return codes	Description
200	Success
10059	No permission

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "currentPage": 1,
  "pageSize": 10,
  "totalNum": 4,
  "isMore": 0,
  "totalPage": 1,
  "startIndex": 0,
  "items": [
    {
      "id": "1352070932163727360",
      "mac": "ac233fd010e2",
      "screenSize": "10",
      "bind": "1",
      "activekey": "3141592653589793",
      "password": null,
      "battery": 100,
      "lastupdate": "2021-02-19 13:59:11",
      "heartbeat": "0",
      "software": null,
      "Request MethodStack": null,
      "firmware": "3.0.0",
      "hardware": null,
      "manufacturer": "Minew",
      "storeId": "1328266049345687552",
      "temperature": 21.0,
    }
  ]
}
```

```

        "chip": null,
        "rssi": -59,
        "peripheral": null,
        "createTime": "2021-01-21 09:50:05",
        "updateTime": "2021-02-19 15:32:59",
        "createBy": null,
        "updateBy": null,
        "merchantCode": "029733",
        "remark": null,
        "doubleSide": "1",
        "firmwareType": "0",
        "isOnline": "1",
        "goodsId": null,
        "goodsIds": null,
        "screenInfo": {
            "inch": 4.2,
            "width": 400,
            "height": 300,
            "color": "bwr"
        }
    }
}
]
}

```

## 6.5 Bind devices

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/update
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Bind tag with template, data/product and store (Create the template and create data/product before binding)

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token from login
storeId	Body	String	yes	Store id
labelMac	Body	String	yes	Mac address of tag
goodsId	Body	String	yes	data/product id

demoldMap	Body	String	yes	Template ID map list, Map<key,value>, key =A(front), key =B(the opposite)
-----------	------	--------	-----	--

## Request demo 1 (single-screen display)

```
https://cloud.minewtag.com/apis/esl/label/update
{
  "labelMac": "AC233FD007A2",
  "goodsId": "6901939721247",
  "storeId": "1328266049345687552",
  "demoIdMap": {"A": "1397855106749173760"}
}
```

## Request demo 2 (double-screen display)

```
https://cloud.minewtag.com/apis/esl/label/update
{
  "labelMac": "AC233FD007A2",
  "goodsId": "6901939721247",
  "storeId": "1328266049345687552",
  "demoIdMap": {"A": "1397855106749173760", "B": "1397877580064886784"}
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12043	Bound already
12044	Bound failed
12045	Template doesn't match with the tag size
12042	Template doesn't exist
12046	Can not find the data/product, please add first
12047	Can not find the tag, please import the tag first.



12004

Lack of request Parameters

## Return result example

```
{
  "code": 200,
  "data": null,
  "message": "success "
}
```

## 6.6 Delete the binding relationship between tag and data

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/deleteBind
<b>Request Method</b>	POST
<b>Content type</b>	
<b>API Description</b>	Delete the binding relationship between the label and the data and template. If the label has a corresponding initialization template, it will be refreshed to the initialization template.

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Params	String	yes	Mac address of tag
storeId	Params	String	yes	Store id

## Request demo

<https://cloud.minewtag.com/apis/esl/label/deleteBind?mac=ac233fd90007&storeId=1549629697900417024>

## Return codes description

Return codes	Description
200	Success
10059	No permission
12020	The label does not exist or the MAC address is wrong

12070	The store id is non-existent
12016	Label has no binding data
12092	Label data binding relationship deletion failed
54033	The label has no corresponding factory image

## Return result example

### success

```
{
  "code" : 200,
  "msg" : "success",
  "data" : null
}
```

### failure

```
{
  "code": 12016,
  "msg": "Label has no binding data",
  "data": null
}
```

## 6.7 Light up RGB light by tag mac

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/led
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Light up the RGB light by tag's mac address

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Params	String	yes	Mac address of tag
storeId	Params	String	yes	Store id
color	Params	Integer	yes	0: off, 1: blue, 2: green, 3: red, 4: yellow, 5: white, 6: magenta, 7:aquamarine.

total	Params	Integer	yes	A full circle is the time of turn-on time plus turn-off time, the total time is a full circle time * circles
period	Params	Integer	yes	One turn-on timeslot, unit: ms
interval	Params	Integer	yes	One turn-off timeslot, unit: ms
brightness	Params	Integer	yes	Light's brightness, 1~100, the bigger digit means more brightness

## Request demo

```
https://cloud.minewtag.com/apis/esl/label/led?storeId=1341258324526391296&color=1&total=6&period=500&interval=900&brightness=100&mac=ac233fd00fe0
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12020	The label does not exist or the MAC address is wrong

## Return result example

```
{
  "code": 10059,
  "data": null,
  "message": "No permission"
}
```

## 6.8 Refresh tags in batch (brush)

URL	https://cloud.minewtag.com/apis/esl/label/batchBrush
Request Method	POST
Content type	application/json;charset=utf-8
API Description	Update tags in batch (Data/product and template should be bound first)

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
storeId	Body	String	yes	Store id
macs	Body	Array	yes	String

## Request demo

```
{
  "macs":["ac233fd01335","ac233fd00708"],
  "storeId":"1408232104776437760"
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permission
54015	Gateways are offline, update failed
12014	Tags are not imported
12024	Please add gateway first
54031	The label is offline, unable to refresh

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "fail": 1,
    "total": 2,
    "data": {
      "ac233fd010ac": {
        "code": 12014,
        "msg": "Tags are not imported",
        "data": null
      },
    },
  },
}
```

```

    "ac233fd2794a": {
      "code": 200,
      "msg": "success",
      "data": null
    }
  }
}
}
}

```

## 6.9 Modify & brush the binding relationship of tags, data & templates (brush)

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/updateBindBrush
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	<p>Modify and brush the data/product information or template of the tag.</p> <ol style="list-style-type: none"> <li>1. Modify the data/product information of the tag;</li> <li>2. Modify the bound template;</li> <li>3. Support turn on/ off the RGB light.</li> <li>4. Support update (gateway &amp; label online)</li> <li>5. Support picture data, the data is base64 string format (https://base64.us), (The key value is the ID of the images field to which the template image element is bound)</li> </ol>

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
labelMac	Body	String	yes	Mac address of the tag
storeId	Body	String	yes	Store id
goodsMap	body	Map<key,value>	yes	The bound data/product of the tag. The id of the data is required, then fill in the <b>ID</b> of the data field and the value to be modified.

demoldMap	Body	Map<key,value>	yes	Template ID map list, Map<key,value>, key =A means front side, key =B means the opposite side
color	Body	Integer	no	Light's color, 0: off, 1:blue; 2:green; 3:red; 4: yellow; 5: white; 6: magenta; 7:aquamarine.
total	Body	Integer	no	total time = time cycle * cycles, unit: s
period	Body	Integer	no	turn-on time in one cycle, unit: ms, range:[1,interval-1]
interval	Body	Integer	no	Time cycle, unit: ms
brightness	Body	Integer	no	Light brightness: 1-100
opCode	Body	Integer	no	Operation code

## Remarks

Params like color, total, period, interval can be ignored if no operation related to RGB light.

## Request demo

```
{
  "storeId": "1419481971267997696",
  "labelMac": "ac233fd0111f",
  "goodsMap": {
    "id": "goods1",
    "memberPrice": "660",
    "name": "testname123456",
    "origin": "testlocation",
    "price": "666"
    "image":"base64 Picture conversion code"
  },
  "demoIdMap": {
    "A": "1752620630798241724"
  },
  "opCode": 0,
}
```

```

    "brightness": 100,
    "color": 1,
    "interval": 900,
    "period": 500,
    "total": 2
  }

```

## Return codes description

Return codes	Description
200	Success
10059	No permission
12042	Template doesn't exist
12051	Store ID can not be blank or null
12068	Data doesn't exist
12070	Store doesn't exist
54028	Data field is not the same as defined field
54031	The label is offline, unable to refresh

## Return result example

### Success

```

{
  "code": 200,
  "msg": "success",
  "data": 200
}

```

### Failure

```

{
  "code": 12042,
  "msg": "模板不存在",
  "data": null
}

```

## 6.10 Import the system data to the appointed store

<b>URL</b>	https://cloud.minewtag.com/apis/system/goods/import
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>Content-Ty</b>	multipart/form-data
<b>API Description</b>	1) Download the latest import template; 2) Fill, modify or newly added modified data; 3) Perform the import, if the data ID which binding tag will update; 4) Successful execution, return the number of successfully imported data & the list of failed data

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
storeIdList	Params	List	yes	Store id list
file	Body	Form-data	yes	Get file "dataTemplate.xls" from Store->Store data->Import->Import data->Download template

### Request demo

<https://cloud.minewtag.com/apis/system/goods/import?storeIdList=1422849708086267905,1425032158484893696>

### Return codes description

Return codes	Description
200	Success
10059	No permission
10006	Please select the file to upload



## Return result example

### Success

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "path": "",
    "successSize": 2,
    "failSize": 0
  }
}
```

### Failure

```
{
  "code": 10006,
  "msg": "Please select the file to upload.",
  "data": null
}
```

## 6.11 Add remarks of the device

URL	https://cloud.minewtag.com/apis/esl/label/updateRemark
Request method	POST
Content type	application/json;charset=utf-8
API description	Add remarks of the device

## Request Parameters

Key	Position	Data type	Necessary	Remark
token	header	String	yes	Token value from login
mac	Body	String	yes	Label Mac

remark	Body	String	yes	Remark info
storeId	Body	String	yes	Store ID

## Request demo

```
{ "mac": "ac233fd11111", "remark": "Daily necessary area", "storeId": "1384335537875193856" }
```

## Return codes description

Return codes	Description
200	Success
12020	The label does not exist or the MAC address is wrong

## Return result example

### Success

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

### Failure

```
{
  "code": 12020,
  "msg": "The label does not exist or the MAC address is wrong",
  "data": null
}
```

## 6.12 Query bound data according to label Mac

URL	<a href="https://cloud.minewtag.com/apis/esl/label/queryBinding">https://cloud.minewtag.com/apis/esl/label/queryBinding</a>
-----	---

<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Query bound data according to label Mac

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Params	String	yes	Lable Mac
storeId	Params	String	yes	Store ID

## Request demo

```
https://cloud.minewtag.com/apis/esl/label/queryBinding?mac=ac233fc0325d
&storeId =1341258324526391296
```

## Return codes description

Return codes	Description
200	Success

## Return result example 1

```
{
  "code": 200,
  "message": "success",
  "data": [
    {
      "demoId": "228a6933d5f54951884ae99433ff3d2d",
      "storeId": "1328266049345687552",
      "mac": "ac233fd010aa",
      "goodsId": "6901939721248"
    }
  ]
}
```

## Return result example 2

```
{
  "code": 10059,
  "msg": "permission denied",
  "data": null
}
```

### 6.13 Query device specific information

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/findByMac
<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Query single device specific information

#### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Params	String	no	Lable Mac

#### Request demo

```
https://cloud.minewtag.com/apis/esl/label/findByMac?mac=ac233fc05d11
```

#### Response parameters

Key	Data Type	Remark
code	Integer	See Return code description
msg	String	
data	Object	

id	String	Device id
mac	String	Device mac address
number	String	
type	Interger	1: ESL; 2: Warning light
screenSize	String	
activeKey	String	activeKey
password	String	
battery	Integer	
lastUpdate	Date	Last adverting time
heartbeat	String	
subcategory	String	
protocolStack	String	
firmware	String	Firmware version
hardware	String	Hardware version
manufacturer	String	
storeId	String	
temperture	Double	
chip	String	
rsssi	Integer	
peripheral	String	
createTime	Date	

updateTime	Date	
createBy	String	
updateBy	String	
merchantCode	String	
remark	String	
doubleSide	String	1: single screen; 2: double-sided screen
firmwareType	String	0: standard firmware; 1: regular broadcast firmware
isOnline	String	1: offline, 2: online

### Return codes description

Return codes	Description
200	Success
10059	no permission

### Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "id": "1328602319477473280",
    "mac": "ac233fd007a2",
    "screenSize": "6",
    "bind": "1",
    "activekey": "3141592653589793",
    "password": null,

```

```
{
  "battery": 100,
  "lastupdate": "2021-01-04 06:38:49",
  "heartbeat": "8808625",
  "software": null,
  "protocolStack": null,
  "firmware": "3.0.5",
  "hardware": null,
  "manufacturer": "Minew",
  "storeId": "1328266049345687552",
  "temperature": 18.0,
  "chip": null,
  "rssi": -59,
  "peripheral": null,
  "createTime": "2020-11-17 15:33:06",
  "updateTime": "2021-01-04 06:38:48",
  "createBy": null,
  "updateBy": null,
  "merchantCode": "029733",
  "remark": null,
  "doubleSide": "1",
  "firmwareType": "0",
  "isOnline": "1",
  "goodsId": null,
  "goodsIds": null,
  "screenInfo": {
    "inch": 4.2,
    "width": 400,
    "height": 300,
    "color": "bwr"
  }
}
```

## Return result example 2

```
{
  "code": 14002,
  "msg": "token invalid or wrong",
  "data": null
}
```

## 6.14 Query the device according to the MAC address (only admin account has permission)

<b>URL</b>	https://cloud.minewtag.com/apis/merchant/queryDeviceByMac
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	Return the device type (1 for label, 2 for shelf light, 3 for gateway) and the associated merchant information. Only the administrator account has this function.

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
mac	Param	String	yes	Mac address of the device

### Request demo

```
https://cloud.minewtag.com/apis/merchant/queryDeviceByMac?mac=ac230fd28a91
```

### Return codes description

Return codes	Description
200	Success
10059	No permission

### Return result example

#### Success



```
{
  "code": 200,
  "msg": "success",
  "data": {
    "id": "1250073802179350529",
    "type": 1,
    "mac": "ac230fd28a91",
    "name": "label",
    "storeName": "711",
    "contactName": "Sue",
    "merchantName": "Minewtag",
    "merchantAddress": "China"
  }
}
```

## 6.15 Query the MAC list of unbound devices in the store or the binding relationship of bound devices

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/getBindsByState
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	<p>If querying unbound devices, return the list addresses of all unbound devices;</p> <p>If querying the bound devices, return to the list of all the binding relationships of the devices under the store (if it is a dual screen, one device has 2 board binding records)</p>

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
storeId	Param	String	yes	Store id
state	Param	Boolean	yes	<p>True: returns all binding relationships of the store;</p> <p>False: returns all unbound MAC address lists of the store;</p>

## Request demo

```
https://cloud.minewtag.com/apis/esl/label/getBindsByState?storeId=1430466345245347840&state=false
```

## Return codes description

Return codes	Description
200	Success
10059	No permission

## Return result example

### Success

#### 1. Querying unbound mac address

```
{
  "code": 200,
  "msg": "success",
  "data": [
    "ac233fd279d9",
    "ac233fd279d8"
  ]
}
```

#### 2. Querying binding relationships

```
{
  "code": 200,
  "msg": "success",
  "data": [
    {
      "id": "1528991812457336832",
      "labelmac": "ac233fd15072",
      "goodsId": "6902265114420",
      "storeId": "1430466345245347840",
      "demoId": "1437721485304139776",
      "side": "A",
      "createTime": null,
      "createBy": null,
      "updateBy": null,
    }
  ]
}
```

```

        "updateTime": null,
        "merchantCode": "064102"
    },
    {
        "id": "1528991812474114048",
        "labelmac": "ac233fd15072",
        "goodsId": "6902265114420",
        "storeId": "1430466345245347840",
        "demoId": "7779eeb9e41b43c5ace7a2e0f1c884ad",
        "side": "B",
        "createTime": null,
        "createBy": null,
        "updateBy": null,
        "updateTime": null,
        "merchantCode": "064102"
    }
]
}

```

## 6.16 Query the label devices that communicate with gateway

<b>URL</b>	https://cloud.minewtag.com/apis/esl/gateway/findEnableLabelByGateway
<b>Request Method</b>	GET
<b>Content type</b>	
<b>API Description</b>	List label MAC addresses that the gateway can communicate within 24 hours.

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	header	String	yes	Token value from login
gatewayMac	Param	String	yes	Gateway MAC address
storeId	Param	String	yes	Store id
minutes	Param	Integer	yes	[5, 60*24] unit: minutes

### Request demo

```
https://cloud.minewtag.com/apis/esl/gateway/findEnableLabelByGateway?ga
```

```
tewayMac=AC233FC03CE3&storeId=1430466345245347840
```

## Return codes description

Return codes	Description
200	Success
13015	Parameters cannot be null
12010	Gateway dose not exist
54040	Gateway and store do not match

## Return result example

### Success

```
{
  "code": 200,
  "msg": "success",
  "data": [
    "ac233fd60008",
    "ac233fd60007",
    "ac233fd6000b",
    "ac233fd6000a"
  ]
}
```

## 6.17 Export the binding list of the warning light and the label

<b>URL</b>	https://cloud.minewtag.com/apis/esl/label/warningLightLabel/excel/export
<b>Request Method</b>	GET
<b>Content type</b>	application/vnd.ms-excel;charset=utf-8
<b>API Description</b>	Export the binding relationship between the warning light and the label

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
storeId	Param	String	yes	

## Request demo

<https://cloud.minewtag.com/apis/esl/label/warningLightLabel/excel/export?storeId=1768083701813481472>

## Response Parameters

Key	Data type	Remark
code	Integer	Refer to the Return codes description
message	String	
data	Object	

## Return codes description

Return codes	Description
200	Success
12070	Store does not exist
12134	The binding relationship does not exist

## Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

If the request is successful, the Excel file is returned.

### Return result example 2

```
{
  "code": 12134,
  "msg": "The binding relationship does not exist",
  "data": null
}
```

## Part 7: Admin Account API

### 7.1 Create master account

<b>URL</b>	https://cloud.minewtag.com/apis/merchant/register
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	<p>System administrator "admin" logs in to create a primary account for a merchant. The primary account serves as the top-level administrator for the merchant.</p> <p>Please note: The default password for the primary account is "Minew123456". You can use the password modification interface for the primary account to change the password as needed.</p>

### Request Parameters

Key	Position	Data type	Necessary	Remarks
-----	----------	-----------	-----------	---------

token	Header	String	yes	Token value from login
merchantName	Body	String	yes	
contactName	Body	String	yes	
mobile	Body	String	no	
email	Body	String	yes	
merchantAddress	Body	String	yes	
servicetype	Body	Integer	yes	Corresponding Value: - 100001: Represents Retail - 100002: Represents Warehouse/Storage - 100003: Represents Medical/Healthcare - 100004: Represents Office - 1: Represents Other
effectiveEnd	Body	String	yes	Example: "2025-08- 10"  If it's an empty string, it indicates permanent validity.
storeMaxLimit	Body	Integer	yes	Maximum number of stores that can be opened.

## Request demo

**https://cloud.minewtag.com/apis/merchant/register**

```
{
  "merchantName": "Minew",
  "contactName": "Minew123",
  "mobile": "",
  "email": "minew@126.com",
  "merchantAddress": "shenzhen",
  "servicetype": 100001,
  "effectiveEnd": "2024-08-10 16:12:56",
  "storeMaxLimit": 50
}
```

## Return codes description

Return codes	Description
200	Success
10059	No permissions
10003	Phone number already exists
10004	Email already exists
10012	Incorrect email format
10063	Merchant name cannot be empty
10065	Built-in role does not exist
10066	Merchant name already exists
10093	Username is already in use
54045	Valid date must be after the current date
540709	The number of stores applied for by the merchant must be greater than 0.

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "id": "1689550802356117504",
    "merchantCode": "341145",
    "loginname": "Minew123",
    "password": "fd5c1cf04c8e68ded43719f50fa81fda",
    "confirmPassword": null,
    "mobile": "",
    "email": "minew@126.com",
    "status": 0,
    "createTime": "2023-08-10 16:14:36",
    "createdBy": "0",
    "updateTime": null,
    "updatedBy": null,
    "description": "Master Account",
    "count": null,
  }
}
```



```

    "resetPassword": null,
    "salt": "",
    "nickname": null,
    "image": null,
    "autoPassWord": null,
    "definePassWord": null,
    "condition": null,
    "loginTime": null,
    "flag": "1",
    "guideTime": null,
    "guideDisplay": null,
    "name": "kaifa123",
    "roleNameList": []
  }
}

```

## 7.2 List of Primary Accounts - Paginated Query

<b>URL</b>	<b>https://cloud.minewtag.com/apis/merchant/listPage</b>
<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	System administrator "admin" logs in to perform a paginated query for primary accounts.

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
page	Param	Integer	yes	
size	Param	Integer	yes	
searchField	Param	String	no	Performing a fuzzy search on fields: merchant name, username, email, merchant address,

				and phone number. If left empty, the search will encompass all fields.
--	--	--	--	--

## Request demo

```
https://cloud.minewtag.com/apis/merchant/listPage?page=1&size=10&searchField=
```

## Response Parameters

Key	Data type	Remark
code	Integer	Please refer to the interface error codes for more detailed information.
msg	String	Messages information
currentPage	Integer	
pageSize	Integer	
totalPage	Integer	
totalNum	Integer	

## Return codes description

Return codes	Description
200	Success
14002	Token expired or incorrect.

## Return result example

```
{
  "code" : 200,
  "msg" : "success",
  "currentPage" : 1,
  "pageSize" : 10,
  "totalNum" : 11,
```

```
"isMore" : 1,
"totalPage" : 2,
"startIndex" : 0,
"items" : [ {
  "id" : "31", //master account ID
  "merchantCode" : "341145",
  "userId" : "1689550802356117504",
  "contactName" : "kevin123",
  "mobile" : "",
  "email" : "test2@gmail.com",
  "phone" : null,
  "merchantName" : "Company 2",
  "merchantAddress" : "Tokyo",
  "active" : 0,
  "servicetype" : 100001,
  "serviceDescription" : null,
  "effectiveStart" : null,
  "effectiveEnd" : "2024-08-10",
  "storeMaxLimit" : 50,
  "certificateUrl" : null,
  "otherUrl" : null,
  "createTime" : "2023-08-10 16:14 :36",
  "createdBy" : null,
  "updateTime" : null,
  "updatedBy" : null,
  "ctype" : null
}, {
  "id" : "5", //master account ID
  "merchantCode" : "946421",
  "userId" : "1674668419653308416",
  "contactName" : "daisx",
  "mobile" : "13212341234",
  "email" : "daisx@qq.com",
  "phone" : null,
  "merchantName" : "daisx",
  "merchantAddress" : "",
  "active" : 0,
  "servicetype" : 100001,
  "serviceDescription" : null,
  "effectiveStart" : null,
  "effectiveEnd" : null,
  "storeMaxLimit" : 50,
  "certificateUrl" : null,
  "otherUrl" : null,
```

```
"createTime" : "2023-06-30 14:37 :20",
"createdBy" : null,
"updateTime" : null,
"updatedBy" : null,
"ctype" : null
} ]
}
```

### 7.3 Modification of Master Account

<b>URL</b>	<b>https://cloud.minewtag.com/apis/merchant/update</b>
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	System administrator "admin" logs in to update merchant primary account information based on the primary account ID.

#### Request Parameters

Key	Position	Datatype	Necessary	Remarks
token	Header	String	yes	Token value from login
id	Body	String	yes	Merchant ID
merchantName	Body	String	yes	Merchant name
contactName	Body	String	yes	User name
mobile	Body	String	no	Mobile
email	Body	String	yes	Email
merchantAddress	Body	String	yes	Merchant Address
servicetype	Body	Integer	yes	Corresponding Value: - 100001: Represents Retail - 100002: Represents Warehouse/Storage - 100003: Represents Medical/Healthcare - 100004: Represents Office

				- 1: Represents Other
effectiveEnd	Body	String	yes	Example: "2025-08- 10"  If it's an empty string, it indicates permanent validity.
storeMaxLimit	Body	Integer	yes	Maximum number of stores that can be opened.

## Request demo

```
{
  "id": "31", //master ID
  "merchantName": "company 2",
  "contactName": "kelly123",
  "mobile": "",
  "email": "test2@gmail.com",
  "merchantAddress": "Tokyo",
  "servicetype": 100001,
  "effectiveEnd": null,
  "storeMaxLimit" : 50
}
```

## Response Parameters

Key	Data type	Remark
code	Integer	Please refer to the interface error codes for more detailed information.
message	String	Messages information
data	json	Data object returns master account information.

## Return codes description

Return codes	Description
200	Success
10059	No permissions
10003	Phone number already exists

10004	Email already exists
10012	Invalid email format
10063	Merchant name cannot be empty
10065	Built-in role does not exist
10066	Merchant name already exists
10093	Username is already in use
54045	Valid date must be after the current date
540709	The number of stores applied for by the merchant must be greater than 0

### Return result example

```
{
  "code" : 200,
  "msg" : "success",
  "data" : [ {
    "id" : "31", //master account ID
    "merchantCode" : "341145",
    "userId" : "1689550802356117504",
    "contactName" : "Kevin123",
    "mobile" : "",
    "email" : "test2@gmail.com",
    "phone" : null,
    "merchantName" : "company2",
    "merchantAddress" : "Tokyp",
    "active" : 0,
    "servicetype" : 100001,
    "serviceDescription" : null,
    "effectiveStart" : null,
    "effectiveEnd" : "2024-08-10",
    "storeMaxLimit" : 50,
    "certificateUrl" : null,
    "otherUrl" : null,
    "createTime" : "2023-08-10 16:14 :36",
    "createdBy" : null,
    "updateTime" : null,
    "updatedBy" : null,
    "ctype" : null
  }
]
```

## 7.4 Delete master account

<b>URL</b>	https://cloud.minewtag.com/apis/merchant/delete
<b>Request Method</b>	GET
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	System administrator "admin" logs in to delete master account information based on the ID.

### Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
id	Param	Integer	yes	Delete according to the master account ID.

### Request demo

```
https://cloud.minewtag.com/apis/merchant/delete?id=31
```

### Response Parameters

Key	Data type	Remark
code	Integer	Please refer to the interface error codes for more detailed information.
msg	String	Messages information

### Return codes description

Return codes	Description
200	Success
14002	Token expired or incorrect.
10018	Master id does not exist (Merchant does not exist).

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": null
}
```

## 7.5 Import the device to the whitelist

<b>URL</b>	https://cloud.minewtag.com/apis/esl/operationlabel/importLabelByJson
<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	administrator account "admin" logs in to import the device to the whitelist

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
Type	Param	Integer	yes	Device type:  1 - ESL  2 - Warning light  4 - Radar  5 - LCD  6 - T&H sensor



labelList	Body	List	yes	
mac		String	yes	Device mac address
activekey		String	yes	Device activekey

## Request demo

```
[
  {
    "mac": "c3000023b1ba",
    "activekey": "3f9c011243354c0c"
  },
  {
    "mac": "123456",
    "activekey": "123456"
  }
]
```

## Response Parameters

Key	Key	Data type	Remark
code	code	Integer	Refer to the Return codes description
message	message	String	
data	data	Object	
total	total	Integer	Total number of device
success	success	Integer	Success number
failMac	failMac	List	Mac address of failed devices

## Return codes description

Return codes	Description
200	Success
14002	Token invalid or wrong
10059	No permissions
12001	Parameter is empty.

### Return result example 1

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "total": 2,
    "success": 1,
    "failMac": [
      "123456"
    ]
  }
}
```

### Return result example 2

```
{
  "code": 14002,
  "msg": "Token invalid or wrong",
  "data": null
}
```

## Part 8: APP API

### 8.1 Get APP Bluetooth Update Data

URL	<a href="https://cloud.minewtag.com/apis/V3/app/local/brush">https://cloud.minewtag.com/apis/V3/app/local/brush</a>
-----	---

<b>Request Method</b>	POST
<b>Content type</b>	application/json;charset=utf-8
<b>API Description</b>	Get APP Bluetooth refresh data (need to establish a binding relationship in the ESL platform to use)

## Request Parameters

Key	Position	Data type	Necessary	Remarks
token	Header	String	yes	Token value from login
mac	Body	String	yes	Mac address
storeId	Body	String	yes	Store ID
screenInfo	Body	String	yes	Device screen id
firmware	Body	String	yes	Device firmware version

## Request demo

```
{
  "mac": "ac233fd0c370",
  "storeId": "1430473329034137600",
  "screenInfo": "17",
  "firmware": "3.1.18"
}
```

## Return codes description

Return codes	Description
200	Success
12047	No information on this tag, please import first

## Return result example

```
{
  "code": 200,
  "msg": "success",
  "data": {
    "code": 200,
    "message": "success!",
    "data": [
      {
        "code": 200,
        "message": "success",
        "raw": {
          "base": "04ff8bb77f6efeddfdbbfb77fc6f08ff8bdb0fb61f6c
3ed87db0fbb708ff8b80df01be037c06f80dfbb708ff02bf837f7efe02fd03fb81b708f
f8ba07f40fe81fd03fa07fc0f08ff02bf837f7efe02fd02fb0aff8b80df01be037c06f8
0dfdf70200810f0eff82fdf70200810f05ff8bc06f80df01be037c06f80709ff8aefffd
fffbfff7ffefff70200810f05ff8b800f001e003c007800fff71bfff8bfbfff7ffefffd
ffbff86f0200810f05ff8bbbf...",
          "base_compress": "rle",
          "crops": null
        },
        "crops_info": null
      }
    ],
    "isDifference": 0,
    "imageId": 0,
    "raw": null
  }
}
```