

# **Simple PDU VPN REST API**

v 1.4

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Version	Author	Date	Description
1.0	Vick Wang	2020/12/18	First edition.
1.1	Vick Wang	2021/1/13	Add Manufacture Setting, EMD Firmware Upgrade, Inlet Firmware Upgrade
1.2	Vick Wang	2021/1/19	Add inlet type into system overview and inlet configuration
1.3	Grace Wu	2023/1/18	<ol style="list-style-type: none"> <li>1. Add CB1/CB2 power factor value, critical value and warning value</li> <li>2. Add RCM flag to check RCM is valid, RCM type to configuration and RCM x30 to check x30 is trigger</li> <li>3. Add Inlet communication state to check inlet is valid</li> <li>4. Add time enable and rotate 7seg</li> <li>5. Add LDAP and TACACS+</li> <li>6. Add email test</li> <li>7. Log history delete energy, voltage, power factor, frequency and current cb1/cb2</li> <li>8. Log history add power, max power, current, max current</li> </ol>
1.4	Grace Wu	2023/5/9	<ol style="list-style-type: none"> <li>1. Add surge protection valid flag and status.</li> <li>2. Add MFG serial number.</li> </ol>

# 1. Authentication

## 1.1. Login

- Resource URL:  
https://<spdu\_ip>/api/login
- Request:  
POST <spdu\_ip>/api/login HTTP /1.1  
Host: <host name>  
Authorization: Digest  
username=vickwang;nc=00000001;cnonce=49153a7a0aed25a8;activation\_code=5a04ec902686fb05a6b7a338b6e07760;response=MTM3Yzg1NjdhYmlzYmRjZDQ5MzhiZmExZGE2MDZINGE=  
Accept: text/html
- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

{"auth":1} /\* 1:GUEST, 2:read-write user, 3:admin \*/  
or  
{"error":1} /\* login failed \*/

Name	Description
response	A base64 string which proves that the user knows a password. response = base64( evp-aes-256-cbc(password, key(activation_code), iv(cnonce))) key: 256 bit, iv: 128 bit EX: assume password is "admin" response = base64( evp-aes-256-cbc(admin, key("5a04ec902686fb05a6b7a338b6e07760"), iv("49153a7a0aed25a8")))
nc	The nc-value is the hexadecimal count of the number of requests that the client has sent with the nonce value in this request.
cnonce	The cnonce-value is an opaque quoted string value provided by the client and used by both client and server to avoid chosen plaintext attacks
trackid	It is a 256-bit hex string converted from 128-bit integer number (UUID) used to authenticate user.
activation_code	It is a 256-bit hex string converted from 128-bit integer random number. It is the key of evp-aes-256-cbc during authentication.
uid	It is a 128-bit hex string to identify user.

## 1.2. Logout

- Resource URL:  
https://<spdu\_ip>/api/logout
- Request:  
POST <spdu\_ip>/api/logout HTTP /1.1  
Host: <host name>  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Accept: text/html
- Response:  
If user logout is successful, respond as below.  
HTTP/1.1 401 Unauthorized  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{"error":0} /* 0:success, 1:error */
```

If request method is not POST, respond as below

```
HTTP/1.1 400 Bad Request  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json
```

```
{"error":1}
```

## 1.3. Get User Privilege

- Resource URL:  
https://<spdu\_ip>/api/usr\_priv
- Request:  
GET <spdu\_ip>/api/usr\_priv HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json  
Content-type: application/json

```
{  
  "usr_privilege":integer,          /* 3: admin, 2: supervisor, 1: guest, 0: no privilege */  
  "usr_logged":integer             /* 0: non-logged, 1:logged */  
}
```

## 2. Summary Overview

- Resource URL:  
https://<spdu\_ip>/api/sum\_ov
- Request:  
GET <spdu\_ip>/api/sum\_ov HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{  
  /* refer sub-sections */  
}
```

### 2.1. System Overview

Get the measured value of inlet.

- Resource URL:  
https://<spdu\_ip>/api/sum\_ov/sys\_ov
- Request:  
GET <spdu\_ip>/api/sum\_ov/sys\_ov HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:

HTTP/1.1 200 OK

Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "fw_ver": "string", /* MIB_SYSTEM_AGENT_VERSION */
  "pdu_type": "string", /* MIB_PDU_TYPE_NAME */
  "inlet_type": integer, /* MIB_PDU_INLET_TYPE_AC1, bit0=0(CT x 1); bit0=1(CT x 2)
                          bit1=0(1 Phase); bit1=1(3 Phase)
                          bit2=0(16A); bit2=1(32A) */
  "inlet_sts": {
    "voltage": [integer, integer, integer], /* MIB_PDU_INLET_VOLTAGE_AC1, integer = real-value x 10 */
    "act_pwr": [integer, integer, integer], /* MIB_PDU_INLET_ACTIVE_POWER_AC1, integer = real-value x 10 */
    "app_pwr": [integer, integer, integer], /* MIB_PDU_INLET_APPARENT_POWER_AC1, integer = real-value x 10 */
    "react_pwr": [integer, integer, integer], /* MIB_PDU_INLET_REACTIVE_POWER_AC1, integer = real-value x 10 */
    "cb1_curr": [integer, integer, integer], /* MIB_PDU_INLET_CB1_CURRENT_AC1, integer = real-value x 10 */
    "cb2_curr": [integer, integer, integer], /* MIB_PDU_INLET_CB2_CURRENT_AC1, integer = real-value x 10 */
    "tot_curr": [integer, integer, integer], /* MIB_PDU_INLET_TOTAL_CURRENT_AC1, integer = real-value x 10 */
    "freq": [integer, integer, integer], /* MIB_PDU_INLET_FREQUENCY_AC1, integer = real-value x 10 */
    "pf": [integer, integer, integer], /* MIB_PDU_INLET_POWER_FACTOR_AC1, integer = real-value x 10 */
    "status": [integer, integer, integer], /* MIB_PDU_INLET_STATUS_AC1, integer: 0 – normal, 1 – warning, 2 – critical */
    "cb1_pf": [integer, integer, integer], /* MIB_PDU_INLET_CB1_PF_AC1, integer = real-value x 10 */
    "cb2_pf": [integer, integer, integer], /* MIB_PDU_INLET_CB2_PF_AC1, integer = real-value x 10 */
  },
  "load_balance": integer, /* MIB_PDU_INLET_LOAD_BALANCE_VALUE_AC1, integer = 0 ~ 100% */
  "lb_status": integer, /* MIB_PDU_INLET_LOAD_BALANCE_STATUS_AC1, integer: 0 – normal, 1 – warning, 2 – critical */
  "res_curr": integer, /* MIB_PDU_INLET_RESIDUAL_CURRENT_AC1 */
  "res_status": integer, /* MIB_PDU_INLET_RESIDUAL_CURRENT_STATUS_AC1, integer: 0 – normal, 1 – warning, 2 – critical */
  "rcm_flag": integer, /* MIB_PDU_INLET_RCM_PRESENT, integer: 0 – RCM invalid, 1 – RCM valid */
  "inlet_comm_state": integer, /* MIB_PDU_INLET_COMM_STAT, integer: 0 – inlet invalid, 1 – inlet valid */
  "rcm_type": integer, /* MIB_PDU_MANU_RCM_TYPE, integer: 0 – TCMB121-1(DC Type), 1 – RCMB121-2(AC Type) */
  "rcm_x30_flag": integer, /* MIB_PDU_MANU_RCM_X30_FLAG, integer: 0 – X30 not trigger, 1 – X30 trigger */
  "spd_valid": integer, /* MIB_PDU_INLET_SPD_PRESENT, integer: 0 – SPD invalid, 1 – SPD valid */
  "spd_status": integer, /* MIB_PDU_INLET_SPD_STATUS_AC1, integer: 0 – normal, 1 – warning, 2 – critical */
}
```

## 2.2. Environment Overview

Get the measured value of EMDs.

- Resource URL:  
[https://<spdu\\_ip>/api/sum\\_ov/env\\_ov](https://<spdu_ip>/api/sum_ov/env_ov)



- Request:  
GET <spdu\_ip>/api/sum\_ov/env\_ov HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{
  "temp_unit":integer,                /* MIB_EMD_HTTP_TEMPERATURE_UNIT, 0:Centigrade; 1:Fahrenheit */
  "emd_addr":[integer,....,integer], /* MIB_SENSOR_EMD_ADDRESS, array size is 8 */
  "fw_ver":["string,....,"string"], /* MIB_SENSOR_EMD_FW_VERSION */
  "loc_name":["string",....,"string"], /* MIB_SENSOR_EMD_LOCATION, location name */
  "emd_name":["string,....,"string"], /* MIB_SENSOR_EMD_NAME */
  "emd_action":[integer,....,integer], /* MIB_SENSOR_EMD_ACTION */
  "alm1_name":["string",....,"string"], /* MIB_SENSOR_EMD_ALARM1_NAME, alarm1 name */
  "alm1_status":[int,....], /*MIB_SENSOR_EMD_ALARM1_STATUS, integer: 0 –normal, 1 – alert */
  "alm2_name":["string",....,"string"], /* MIB_SENSOR_EMD_ALARM2_NAME, alarm1 name */
  "alm2_status":[int,....], /*MIB_SENSOR_EMD_ALARM2_STATUS, integer: 0 –normal, 1 – alert */
  "temp_name":["string,....],        /* MIB_SENSOR_EMD_TEMP_NAME */
  "temp_value":[int,....],          /* MIB_SENSOR_EMD_TEMP_VALUE, integer = real-value x 10 */
  "temp_status":[int,....],         /* MIB_SENSOR_EMD_TEMP_STATUS, integer: 0 – normal, 1 - alert */
  "humi_name":["string,....],       /* MIB_SENSOR_EMD_HUMI_NAME */
  "humi_value":[int,....],          /* MIB_SENSOR_EMD_HUMI_VALUE, integer = real-value x 10 */
  "humi_status":[int,....],         /* MIB_SENSOR_EMD_HUMI_STATUS, integer: 0 – normal, 1 - alert */
}
```

## 2.3. Alarm List

Get alarm list.

- Resource URL:  
https://<spdu\_ip>/api/sum\_ov/alarm\_list
- Request:  
GET <spdu\_ip>/api/sum\_ov/alarm\_list?lang=en\_US HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:  
 HTTP/1.1 200 OK  
 Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
 Accept: application/json  
 Content-type: application/json

```
{
  "event_count":integer,
  "alarm_list":[
    {
      "event_id":integer,
      "event_time":"string",
      "event_description":"string"
    },
    .....
  ]
}
```

lang	en_US, zh_TW, zh_CN, user_1, user_2
------	-------------------------------------

## 2.4. Network Connection

Get client connections.

- Resource URL:  
[https://<spdu\\_ip>/api/sum\\_ov/client\\_conn](https://<spdu_ip>/api/sum_ov/client_conn)
- Request:  
 GET <spdu\_ip>/api/sum\_ov/client\_conn HTTP 1.1  
 Host: localhost  
 Cookie:  
 trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
 HTTP/1.1 200 OK  
 Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9; Max-Age=1800  
 Accept: application/json  
 Content-type: application/json

```
{
  "conn_units":integer,
  "conn_addr":["string", .....],
  "conn_type":[integer, .....],
  "conn_name":["string", .....],
```

```
/* MIB_NETWORK_CONNECTIONS_PRESENT */
/* MIB_NETWORK_CONNECTION_ADDRESS, array size is 16 */
/* MIB_NETWORK_CONNECTION_TYPE, integer = */
/* MIB_NETWORK_CONNECTION_USERNAME */
```

```
}
```

## 3. Power Management

- Resource URL:  
https://<spdu\_ip>/api/pwr\_mgmt
- Request:  
POST <spdu\_ip>/api/pwr\_mgmt HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

```
{  
    /* refer sub-sections */  
}
```

- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{  
    "error":0 /* 0: success, 1:error */  
}
```

### 3.1. Inlet Configuration

Configure all necessary parameters for inlet.

- POST
  - Resource URL:  
https://<spdu\_ip>/api/pwr\_mgmt/inlet\_conf
  - Request:  
POST <spdu\_ip>/api/pwr\_mgmt/inlet\_conf HTTP/1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

```
{  
    "misc":{ ...},
```

```
    "energy":{...}
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "error":0                               /* 0: success, 1:error */
}
```

### 3.1.1. Misc

● POST

■ Resource URL:

https://<spdu\_ip>/api/pwr\_mgmt/inlet\_conf/misc

■ Request:

POST <spdu\_ip>/api/pwr\_mgmt/inlet\_conf/misc HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

```
{
  "inlet_type":integer,                    /* MIB_PDU_INLET_TYPE_AC1, bit0=0(CT x 1); bit0=1(CT x 2)
                                           bit1=0(1 Phase); bit1=1(3 Phase)
                                           bit2=0(16A); bit2=1(32A) */
  "ol_crit":integer,                      /* MIB_PDU_INLET_CRIT_OVER_LOAD_SET_AC1, integer = real-value x 10 */
  "ol_warn":integer,                      /* MIB_PDU_INLET_WARN_OVER_LOAD_SET_AC1, integer = real-value x 10 */
  "lb_crit":integer,                      /* MIB_PDU_INLET_CRIT_LOAD_BALANCE_SET_AC1, load balance critical set */
  "lb_warn":integer,                      /* MIB_PDU_INLET_WARN_LOAD_BALANCE_SET_AC1, load balance warning set */
  "cb1_oc_crit":[int,int,int],            /* MIB_PDU_INLET_CB1_CRIT_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "cb1_oc_warn":[int,int,int],           /* MIB_PDU_INLET_CB1_WARN_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "cb2_oc_crit":[int,int,int],            /* MIB_PDU_INLET_CB2_CRIT_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "cb2_oc_warn":[int,int,int],           /* MIB_PDU_INLET_CB2_WARN_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "tot_oc_crit":[int,int,int],            /* MIB_PDU_INLET_TOTAL_CRIT_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "tot_oc_warn":[int,int,int],           /* MIB_PDU_INLET_TOTAL_WARN_OVER_CURRENT_SET_AC1, integer = real-value x 10 */
  "ov_crit":[int,int,int],                /* MIB_PDU_INLET_CRIT_OVER_VOLTAGE_SET_AC1, integer = real-value x 10 */
  "ov_warn":[int,int,int],                /* MIB_PDU_INLET_WARN_OVER_VOLTAGE_SET_AC1, integer = real-value x 10 */
  "res_threshold":integer,                /* MIB_PDU_INLET_RESIDUAL_CURRENT_THRESHOLD_AC1, integer = real-value x 10 */
}
```

```

"rcm_flag":integer, /* MIB_PDU_INLET_RCM_PRESENT, integer: 0 – RCM invalid, 1 –RCM valid */
"cb1_pf_crit":[int,int,int], /* MIB_PDU_INLET_CB1_CRIT_UNDER_PF_SET_AC1, integer = real-value x 10 */
"cb1_pf_warn":[int,int,int], /* MIB_PDU_INLET_CB1_WARN_UNDER_PF_SET_AC1, integer = real-value x 10 */
"cb2_pf_crit":[int,int,int], /* MIB_PDU_INLET_CB2_CRIT_UNDER_PF_SET_AC1, integer = real-value x 10 */
"cb2_pf_warn":[int,int,int], /* MIB_PDU_INLET_CB2_WARN_UNDER_PF_SET_AC1, integer = real-value x 10 */

```

```
}

```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{
  "error":0 /* 0: success, 1:error */
}

```

- GET

- Request:

GET <spdu\_ip>/api/ pwr\_mgmt /inlet\_conf/misc HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 3.1.2. Energy

Configure all necessary parameters for energy.

- POST

- Resource URL:

https://<spdu\_ip>/api/pwr\_mgmt/inlet\_conf/energy

- Request:

POST <spdu\_ip>/api/ pwr\_mgmt /inlet\_conf/energy HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

```
{
  "reset_tot_energy":integer,          /* MIB_PDU_INLET_TOTAL_ENERGY_RESET_AC1, integer: 0 – do nothing, 1 – reset */
  "reset_energy":[int,int,int]        /*MIB_PDU_INLET_ENERGY_RESET_AC1, integer: 0 – do nothing, 1 – reset */
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "error":0                            /* 0: success, 1:error */
}
```

● GET

■ Request:

GET <spdu\_ip>/api/pwr\_mgmt /inlet\_conf/energy HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "power":integer,                    /* MIB_PDU_INLET_TOTAL_POWER_AC1, integer = real-value x 10 */
  "pwr_sts":integer,                  /* MIB_PDU_INLET_TOTAL_POWER_STATUS_AC1, integer: 0 – normal, 1 – warning, 2 – critical */
  "tot_energy":integer,               /* MIB_PDU_INLET_TOTAL_ENERGY_AC1, integer = real-value x 100 */
  "tot_energy_record":"string",       /* MIB_PDU_INLET_TOTAL_ENERGY_RECORD_AC1 */
  "energy":[int,int,int],            /* MIB_PDU_INLET_ENERGY_AC1, integer = real-value x 100 */
  "energy_record":["str","str","str"], /* MIB_PDU_INLET_ENERGY_RECORD_AC1 */
  "load_balance":integer,             /* MIB_PDU_INLET_LOAD_BALANCE_VALUE_AC1 */
  "lb_status":integer                 /* MIB_PDU_INLET_LOAD_BALANCE_STATUS_AC1 */
}
```

## 3.2. Environment Configuration

Configure all necessary parameters for EMDs.

- POST

- Resource URL:

https://<spdu\_ip>/api/pwr\_mgmt/env\_conf

- Request:

POST <spdu\_ip>/api/pwr\_mgmt /env\_conf HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "temp_unit":integer,                /* MIB_EMD_HTTP_TEMPERATURE_UNIT, 0:Centigrade; 1:Fahrenheit */
  "emd_addr":[integer,....,integer],  /* MIB_SENSOR_EMD_ADDRESS, array size is 8 */
  "fw_ver":["string",....,"string"], /* MIB_SENSOR_EMD_FW_VERSION */
  "lt_close"[integer,....,integer],   /* MIB_SENSOR_EMD_LT, integer: 0 – disabled, 1 – normal open, 2 – normal close */
  "loc_name":["string",....,"string"], /* MIB_SENSOR_EMD_LOCATION, location name */
  "emd_name":["string",....,"string"], /* MIB_SENSOR_EMD_NAME */
  "emd_action":[integer,....,integer], /* MIB_SENSOR_EMD_ACTION */
  "alm1_name":["string",....,"string"], /* MIB_SENSOR_EMD_ALARM1_NAME, alarm1 name */
  "alm1_state":[int,....],           /* MIB_SENSOR_EMD_ALARM1_NORMAL_STATE, integer: 0 – disabled, 1 – normal open, 2 – normal close */
  "alm2_name":["string",....,"string"], /* MIB_SENSOR_EMD_ALARM2_NAME, alarm1 name */
  "alm2_state":[int,....],           /* MIB_SENSOR_EMD_ALARM2_NORMAL_STATE, integer: 0 – disabled, 1 – normal open, 2 – normal close */
  "temp_name":["string,....],        /* MIB_SENSOR_EMD_TEMP_NAME */
  "temp_crit_he":[int,....],         /* MIB_SENSOR_EMD_TEMP_CRIT_HIGH_ENABLE, integer: 0 – disabled, 1 – enabled */
  "temp_crit_high":[int,....],       /* MIB_SENSOR_EMD_TEMP_CRIT_HIGH_SET, integer = real-value x 10 */
  "temp_crit_le":[int,....],         /* MIB_SENSOR_EMD_TEMP_CRIT_LOW_ENABLE, integer: 0 – disabled, 1 – enabled */
  "temp_crit_low":[int,....],        /* MIB_SENSOR_EMD_TEMP_CRIT_LOW_SET, integer = real-value x 10 */
  "temp_warn_he":[int,....],         /* MIB_SENSOR_EMD_TEMP_WARN_HIGH_ENABLE, integer: 0 – disabled, 1 – enabled */
  "temp_warn_high":[int,....],       /* MIB_SENSOR_EMD_TEMP_WARN_HIGH_SET, integer = real-value x 10 */
  "temp_warn_le":[int,....],         /* MIB_SENSOR_EMD_TEMP_WARN_LOW_ENABLE, integer: 0 – disabled, 1 – enabled */
  "temp_warn_low":[int,....],        /* MIB_SENSOR_EMD_TEMP_WARN_LOW_SET, integer = real-value x 10 */
  "temp_cal_offs":[int,....],        /* MIB_SENSOR_EMD_TEMP_CALIBRATION, integer = real-value x 10 */
  "humi_name":["string,....],        /* MIB_SENSOR_EMD_HUMI_NAME */
  "humi_crit_he":[int,....],         /* MIB_SENSOR_EMD_HUMI_CRIT_HIGH_ENABLE, integer: 0 – disabled, 1 – enabled */
  "humi_crit_high":[int,....],       /* MIB_SENSOR_EMD_HUMI_CRIT_HIGH_SET, integer = real-value x 10 */
  "humi_crit_le":[int,....],         /* MIB_SENSOR_EMD_HUMI_CRIT_LOW_ENABLE, integer: 0 – disabled, 1 – enabled */
}
```

```

    "humi_crit_low":[int,...],          /* MIB_SENSOR_EMD_HUMI_CRIT_LOW_SET, integer = real-value x 10 */
    "humi_warn_he":[int,...],          /* MIB_SENSOR_EMD_HUMI_WARN_HIGH_ENABLE, integer: 0 – disabled, 1 – enabled */
    "humi_warn_high":[int,...],        /* MIB_SENSOR_EMD_HUMI_WARN_HIGH_SET, integer = real-value x 10 */
    "humi_warn_le":[int,...],          /* MIB_SENSOR_EMD_HUMI_WARN_LOW_ENABLE, integer: 0 – disabled, 1 – enabled */
    "humi_warn_low":[int,...],         /* MIB_SENSOR_EMD_HUMI_WARN_LOW_SET, integer = real-value x 10 */
    "humi_cal_offs":[int,...],         /* MIB_SENSOR_EMD_HUMI_CALIBRATION, integer = real-value x 10 */
  }

```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{
  "error":0                               /* 0: success, 1:error */
}

```

- GET

- Request:

GET <spdu\_ip>/api/pwr\_mgmt/env\_conf HTTP/1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;nonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4. Settings

### 4.1. General Setting

Configure all parameters for general setting.

- POST

- Resource URL:



https://<spdu\_ip>/api/setting/gen\_setting

■ Request:

POST <spdu\_ip>/api/setting/gen\_setting HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "sys_setting":{
    "sys_name":"string",           /* MIB_SYSTEM_AGENT_NAME */
    "sys_contact":"string",       /* MIB_SYSTEM_AGENT_CONTACT */
    "sys_location":"string",      /* MIB_SYSTEM_AGENT_LOCATION */
    "his_interval":integer,       /* MIB_AGENT_HISTORY_INTERVAL */
    "refresh_time":integer,       /* MIB_SYSTEM_FLASH_INTERVAL */
    "timeout_enable":integer,     /* MIB_WEB_TIMEOUT_ENABLE */
    "timeout_interval":integer,   /* MIB_WEB_TIMEOUT_SECONDS */
    "rotate_7seg":integer,       /* MIB_PDU_7SEG_ROTATION */
  },
  "date_time":{
    "time_zone":integer,          /* MIB_SYSTEM_AGENT_TIME_ZONE, 0~76 */
    "date":"string",             /* MIB_SYSTEM_AGENT_DATE */
    "time":"string",            /* MIB_SYSTEM_AGENT_TIME */
    "date_format":integer,       /* MIB_SYSTEM_AGENT_DATE_FORMAT, 0 - dd/mm/yyyy, 1 - mm/dd/yyyy, 2 - yyyy/mm/dd */
    "time_format":integer,      /* MIB_SYSTEM_AGENT_TIME_FORMAT, integer: 0 - 24H, 1 - 12H */
    "sync_mode":integer,        /* MIB_SYSTEM_AGENT_TIME_SELECT, 0:with computer, 1:with NTP server, 2:set manually */
    "ntp_server1":"string",      /* MIB_SYSTEM_AGENT_NTP_IP */
    "ntp_sync_interval":integer, /* MIB_SYSTEM_AGENT_NTP_RUN_PERIOD */
    "ntp_interval_mode":integer, /* MIB_SYSTEM_AGENT_NTP_PERIOD_MODE */
    "daylight_saving":integer,   /* MIB_SYSTEM_AGENT_DST_ENABLED, 0:disabled, 1:auto */
  }
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
```

```
"error":0 /* 0:success, 1:error */
```

```
}
```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/gen\_setting

- Request:

GET <spdu\_ip>/api/setting/gen\_setting HTTP 1.1

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
/* refer POST content */
```

## 4.2. iEView Management

Configure all parameters for iEView management.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/iecv\_mgmt

- Request:

POST <spdu\_ip>/api/setting/iecv\_mgmt HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
```

```
  "iecv_enable":integer, /* MIB_CLOUD_VIEW_SERVER_ENABLE_DISABLE, integer: 0 – disabled, 1 – enabled */
```

```
  "iecv_ipaddr":"string", /* MIB_CLOUD_VIEW_SERVER_IP */
```

```
  "iecv_guid":"string", /* MIB_CLOUD_VIEW_SERVER_GUID */
```

```
  "iecv_port":integer, /* MIB_CLOUD_VIEW_SERVER_PORT */
```

```
  "iecv_password":"string" /* MIB_CLOUD_VIEW_SERVER_PASSWORD, string = base64(evpc-aes-256-cbc) */
```

```
}
```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json  
Content-type: application/json

```
{  
    "error":0 /* 0:success, 1:error */  
}
```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/iecv\_mgmt

- Request:

GET <spdu\_ip>/api/setting/iecv\_mgmt HTTP 1.1

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4.3. TCP/IP

Configure all parameters for TCP/IP.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/tcpip

- Request:

POST <spdu\_ip>/api/setting/tcpip HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{  
    "ipv4":{  
        "ip_address":"string", /* MIB_SYSTEM_AGENT_IP */  
        "gateway_address":"string", /* MIB_SYSTEM_AGENT_GW */  
        "subnet_mask":"string", /* MIB_SYSTEM_AGENT_SUBNET */  
        "bootp_dhcp":integer, /* MIB_SYSTEM_AGENT_BOOTP, integer: 0 - disabled, 1 - enabled */  
    }  
}
```

```

        "dns_address":["string", "string"]          /* MIB_SYSTEM_AGENT_DNS */
    },
    "ipv6":{
        "enable_ipv6":integer,                      /* MIB_SYSTEM_AGENT_IPV6_ENABLE, integer: 0 – disabled, 1 – enabled */
        "configuration":integer, /*MIB_SYSTEM_AGENT_IPV6_DHCPV6_CONFIG, integer: 0 - auto, 1 - dhcpv6, 2 - manual */
        "prefix":integer,                          /* MIB_SYSTEM_AGENT_IPV6_PREFIX */
        "local_address":"string",                  /* MIB_SYSTEM_AGENT_IPV6_LOCAL */
        "router_address":"string",                /* MIB_SYSTEM_AGENT_IPV6_GLOBAL */
        "dns_address":["string", "string"] /* MIB_SYSTEM_AGENT_IPV6_DNS */
    }
}

```

■ Response:

HTTP/1.1 200 OK

Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{ "error":0 } /* 0:success, 1:error */
```

● GET

■ Resource URL:

https://<spdu\_ip>/api/setting/tcpip

■ Request:

GET <spdu\_ip>/api/setting/tcpip HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4.4. Accessible IP Setting

Configure all parameters for accessible IP setting.

● POST

■ Resource URL:

https://<spdu\_ip>/api/setting/ip\_filter

■ Request:

POST <spdu\_ip>/api/setting/ip\_filter HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "ip_filter_enable":integer,           /* MIB_NET_FIREWALL_ENABLED, integer: 0 – disable, 1 – enable */
  "ip_address":["string", .....],     /* MIB_NET_FIREWALL_IP_ADDRESS, array size is 8 */
  "prefix_len":[integer, .....],     /* MIB_NET_FIREWALL_PREFIX_LENGTH */
  "action":[integer, .....]         /* MIB_NET_FIREWALL_ADDRESS_D_OR_A, 0:accept, 1:reject */
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{"error":0}                          /* 0:success, 1:error */
```

● GET

■ Resource URL:

https://<spdu\_ip>/api/setting/ip\_filter

■ Request:

GET <spdu\_ip>/api/setting/ip\_filter HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

# 4.5. Security

## 4.5.1. Network Access Protection

Configure all parameters for network security.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/security/protection

- Request:

POST <spdu\_ip>/api/setting/security/protection HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;nonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "protect_enable":integer,          /* MIB_NETWORK_PROTECTION_ENABLED, integer: 0 – disable, 1 – enable */
  "ssh_enable":integer,              /* MIB_NETWORK_SSH_PROTECTION_ENABLED, integer: 0 – disable, 1 – enable */
  "snmp_enable":integer,             /* MIB_NETWORK_SNMP_PROTECTION_ENABLED, integer: 0 – disable, 1 – enable */
  "http_enable":integer,             /* MIB_NETWORK_HTTP_PROTECTION_ENABLED, integer: 0 – disable, 1 – enable */
  "retry_count":[integer,...],       /* MIB_NETWORK_PROTECTION_RETRYINTERVAL, array size is 3 */
  "duration":[integer,...],          /* MIB_NETWORK_PROTECTION_RETRYTIMES */
  "block_time":[integer,...]         /* MIB_NETWORK_PROTECTION_BLOCKTIME */
}
```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{"error":0} /* 0:success, 1:error */
```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/security/protection

- Request:

GET <spdu\_ip>/api/setting/security/protection HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4.5.2. Upload CA

● POST

● Resource URL:

https://<spdu\_ip>/api/setting/security/ca\_upload

● Request:

POST <spdu\_ip>/api/setting/security/ca\_upload HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Content-Type: multipart/form-data; boundary=-----xxxxxx...

/\* file content \*/

● Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

{ "error":0 }

## 4.5.3. Download Root CA

● GET

● Resource URL:

https://<spdu\_ip>/api/setting/security/ca\_download

● Request:

GET <spdu\_ip>/api/setting/security/ca\_download HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Content-type: application/x-x509-ca-cert

Content-Length: 1395

Content-Disposition: attachment; filename=ca\_file.crt

*/\* file content \*/*

## 4.6. Network Service

Configure all parameters for network service.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/net\_service

- Request:

POST <spdu\_ip>/api/setting/net\_service HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "ssh_enable":integer,           /* MIB_NETWORK_SSH_ENABLED, integer: 0 – disabled, 1 – enabled */
  "ssh_port":integer,            /* MIB_NETWORK_SSH_PORT */
  "ssl_enable":integer,          /* MIB_NETWORK_HTTP_CONTROL, integer: 0 – disabled, 1 – enabled */
  "ssl_port":integer,            /* MIB_NETWORK_HTTPS_PORT */
  "ssl_only":integer,            /* MIB_NETWORK_HTTP_ENABLED, integer: 0 – disabled, 1 – enabled */
  "ping_enable":integer,         /* MIB_NETWORK_ICMP_ENABLED, integer: 0 – disabled, 1 – enabled */
  "modbus_tcp_enable":integer,    /* MIB_MODBUS_TCP_CONFIG, integer: 0 – disabled, 1 – enabled */
  "modbus_tcp_port":integer,      /* MIB_MODBUS_TCP_PORT */
  "radius_enable":integer,        /* MIB_NETWORK_RADIUS_ENABLED, integer: 0 – disabled, 1 – enabled */
  "radius_ipaddr":"string",      /* MIB_NETWORK_RADIUS_SERVERS */
  "radius_port":integer,         /* MIB_NETWORK_RADIUS_PORT */
  "radius_key":"string",         /* MIB_NETWORK_RADIUS_SECRETS, base64(evpc-aes-256-cbc) */
  "radius_timeout":integer,      /* MIB_NETWORK_RADIUS_TIMEOUT */
}
```



```

"radius_retry":integer          /* MIB_NETWORK_RADIUS_RETRY */
"ldap_enable":integer          /* MIB_NETWORK_LDAP_CONFIG */
"ldap_port":integer            /* MIB_NETWORK_LDAP_PORT */
"ldap_servers":integer         /* MIB_NETWORK_LDAP_SERVERS */
"ldap_tls_enable":integer      /* MIB_NETWORK_LDAP_TLS_CONFIG */
"ldap_base_dn":integer         /* MIB_NETWORK_LDAP_BASEDN */
"tac_enable":integer           /* MIB_NETWORK_TACACS_CONFIG */
"tac_servers":integer          /* MIB_NETWORK_TACACS_SERVERS */
"tac_port":integer             /* MIB_NETWORK_TACACS_PORT */
"tac_secret_key":integer       /* MIB_NETWORK_TACACS_SECRET_KEY */
"tac_timeout":integer          /* MIB_NETWORK_TACACS_TIMEOUT */
"tac_retry_cnt":integer        /* MIB_NETWORK_TACACS_RETRY */
"tac_auth_mode":integer        /* MIB_NETWORK_TACACS_AUTH_MODE*/

```

```

}

```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{"error":0}                                /* 0:success, 1:error */

```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/net\_service

- Request:

GET <spdu\_ip>/api/setting/net\_service HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

/* refer POST content */

```

## 4.7. SNMP Setting

Configure all parameters for SNMP.

● POST

■ Resource URL:

https://<spdu\_ip>/api/setting/snmp\_setting

■ Request:

POST <spdu\_ip>/api/setting/snmp\_setting HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "enable_snmp":integer,                /* MIB_NETWORK_SNMP_ENABLED */
  "snmp_port":integer,                  /* MIB_NETWORK_SNMP_PORT */
  "v1v2c_setting":{
    "community_read":"string",         /* MIB_NETWORK_SNMP_READ_COMMUNITY , base64(esp-aes-256-cbc) */
    "community_write":"string"         /* MIB_NETWORK_SNMP_WRITE_COMMUNITY , base64(esp-aes-256-cbc) */
  },
  "v3_setting":{
    "user_name":"string",               /* MIB_SNMPv3_USM_USERNAME */
    "auth_mode":integer,                 /* MIB_SNMPv3_USM_AUTH_PROTOCOL_1, 0:MD5, 1:SHA */
    "auth_password":"string",           /* MIB_SNMPv3_USM_PASSWORD_1, base64(esp-aes-256-cbc) */
    "privacy_mode":integer,              /* MIB_SNMPv3_USM_AUTH_PROTOCOL_2, 0:DES, 1:AES */
    "privacy_password":"string",         /* MIB_SNMPv3_USM_PASSWORD_2, base64(esp-aes-256-cbc) */
    "security_level":integer             /* MIB_SNMPv3_USM_SECURITY_LEVEL, 0:noAuthNoPriv, 1:authNoPriv, 2:authPriv */
  },
  "trap_setting":{
    "nms_ip":["string", .....],         /* MIB_AGENT_MANAGER_ADDRESS, array size is 8 */
    "community_string":["string", .....], /* MIB_AGENT_MANAGER_COMMUNITY, base64(esp-aes-256-cbc) */
    "trap_type":[integer, .....],        /* MIB_AGENT_MANAGER_TYPE, 0:None, 1:Private Trap */
    "trap_version":[integer, .....],     /* MIB_AGENT_MANAGER_TRAP_VERSION, 0:v1, 1:v2c, 2:v3 */
    "by_level":[integer, .....], /* MIB_AGENT_MANAGER_SEVERITY_LEVEL, 0:information, 1:warning, 2:critical, 3:by event */
    "by_event":["string(192)", .....],   /* 192 bytes string (index = 0), refer Event Bitmap */
    "description":["string", .....],     /* MIB_AGENT_MANAGER_DESCR */
    "trap_test":integer                   /* MIB_AGENT_MANAGER_TRAP_TEST, 0:undo test, 1:do test */
  }
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json  
Content-type: application/json

```
{"error":0} /* 0:success, 1:error */
```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/snmp\_setting

- Request:

GET <spdu\_ip>/api/setting/snmp\_setting HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4.8. Email Setting

Configure all parameters for Email Setting.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/email\_setting

- Request:

POST <spdu\_ip>/api/setting/email\_setting HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "server_setting":{
    "mail_server":"string", /* MIB_UPS_SMTP_SERVER */
    "smtp_port":integer, /* MIB_NETWORK_SMTP_PORT */
    "sender_address":"string", /* MIB_UPS_SMTP_SENDER_ADDRESS */
    "mail_subject":"string", /* MIB_UPS_SMTP_SUBJECT_PREFIX */
```

```

    "support_tls":integer                /* MIB_NETWORK_SMTP_TLS_ENABLED, 0:disabled, 1:enabled */
    "user_account":"string",            /* MIB_UPS_SMTP_ACCOUNT */
    "user_password":"string",          /* MIB_UPS_SMTP_PASSWORD, base64(esp-aes-256-cbc) */
    "dns_address":"string",
    "daily_status_report":"string",    /* hh:mm */
  },
  "receiver_table":{
    "mail_account":["string", .....], /* MIB_UPS_SMTP_RECEIVER_NAME, array size is 8 */
    "description":["string", .....], /* MIB_UPS_SMTP_RECEIVER_DESC */
    "mail_type":[integer, .....],    /* MIB_UPS_SMTP_RECEIVER_TYPE, 0:None,1:Events,2:Daily Status,2:Events/Status */
    "by_level":[integer, .....],     /* MIB_UPS_SMTP_RECEIVER_LEVEL, 0:information, 1 warning, 2:critical, 3:by event */
    "by_event":["string(192)", .....] /* 192 bytes string */
  },
  "email_test":{
    "mail_account":"string",          /* MIB_SMTP_TEST_ADDR */
    "description":"string",           /* MIB_SMTP_TEST_DESC */
    "mail_type":integer,              /* MIB_SMTP_TEST_TYPE */
    "by_level":integer,               /* MIB_SMTP_TEST_LEVEL */
    "email_test":integer,             /* MIB_NETWORK_SMTP_SEND_TEST, 0:undo test, 1:do test */
  }
}

```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{ "error":0 } /* 0:success, 1:error */
```

- GET

- Resource URL:

https://<spdu\_ip>/api/setting/email\_setting

- Request:

GET <spdu\_ip>/api/setting/email\_setting HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 4.9. User Setting

Configure all parameters for user setting.

- POST

- Resource URL:

https://<spdu\_ip>/api/setting/user\_setting

- Request:

POST <spdu\_ip>/api/setting/user\_setting HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "local_user":{
    "user_name":["string", .....],           /* MIB_SYSTEM_AGENT_USERNAME, array size is 8 */
    "user_password":["string", .....],       /* MIB_SYSTEM_AGENT_PASSWORD, base64(esp-aes-256-cbc) */
    "user_privilege":[integer, .....]        /* MIB_SYSTEM_AGENT_USERLEVEL, 0:disabled, 1:read only, 2:read+write */
  },
  "radius_user":{
    "user_name":["string", .....],           /* MIB_RADIUS_USERNAME, array size is 8 */
    "user_privilege":[integer, .....]        /* MIB_RADIUS_USERLEVEL, 0:disabled, 1:read only, 2:read+write */
  },
  "admin_user":{
    "admin_name":"string",                   /* MIB_SUPER_USER_USERNAME */
    "admin_password":"string"               /* MIB_SUPER_USER_PASSWORD, base64(esp-aes-256-cbc) */
  },
  "ldap_user":{
    "user_name":["string", .....],           /* MIB_NETWORK_LDAP_USERNAME, array size is 8 */
    "user_privilege":["string", .....],      /* MIB_NETWORK_LDAP_USERLEVEL, base64(esp-aes-256-cbc) */
  },
  "tacacs_user":{
    "user_name":["string", .....],           /* MIB_NETWORK_TACACS_USERNAME, array size is 8 */
    "user_privilege":["string", .....],      /* MIB_NETWORK_TACACS_USERLEVEL, base64(esp-aes-256-cbc) */
  }
}
```

- Response:
  - HTTP/1.1 200 OK
  - Set-Cookie:
    - trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800
  - Accept: application/json
  - Content-type: application/json

{ "error":0 }

/\* 0:success, 1:error \*/

- GET

- Resource URL:
  - https://<spdu\_ip>/api/setting/user\_setting
- Request:
  - GET <spdu\_ip>/api/setting/user\_setting HTTP 1.1
  - Cookie:
    - trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:
  - HTTP/1.1 200 OK
  - Set-Cookie:
    - trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800
  - Accept: application/json
  - Content-type: application/json

/\* refer POST content \*/

## 5. Log

### 5.1. System Log

Get system event log.

- GET
  - Resource URL:
    - https://<spdu\_ip>/api/log/sys\_log
  - Request:
    - GET
    - <spdu\_ip>/api/log/sys\_log?startIdx=integer&displayNum=integer&eventLevel=integer&lang=en\_US&time1=dd/mm/yyyy&time2=dd/mm/yyyy HTTP 1.1
    - Host: localhost
    - Cookie:
      - trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69

153d25a8a7a0ae

Name	Description
startIdx	the offset of log from specific datetime
displayNum	log count, which will be displayed on the web page
eventLevel	0:Information(include Warning and Critical), 1:Warning(include Critical), 2:Critical
lang	en_US, zh_TW, zh_CN, user_1, user_2
time1	start date (if there is no time1, read from the last log)
time2	end date (time1 and time2 must be paired, otherwise an error will be returned)

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "total_count":integer,
  "return_count":integer,
  "log_data":[
    {
      "date":"string",                /* data is returned from startIdx */
      "time":"string",
      "log_level":integer,           /* refer eventLevel */
      "description":"string"
    },
    .....
  ]
}
```

## 5.2. Event Log

Get event log.

- Resource URL:

[https://<spdu\\_ip>/api/log/event\\_log](https://<spdu_ip>/api/log/event_log)

- Request:

GET

[<spdu\\_ip>/api/log/event\\_log?startIdx=integer&displayNum=integer&eventLevel=integer&lang=en\\_US&time1=dd/mm/yyyy&time2=dd/mm/yyyy](https://<spdu_ip>/api/log/event_log?startIdx=integer&displayNum=integer&eventLevel=integer&lang=en_US&time1=dd/mm/yyyy&time2=dd/mm/yyyy) HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Name	Description
startIdx	the offset of log from specific datetime
displayNum	log count, which will be displayed on the web page
eventLevel	0:Information(include Warning and Critical), 1:Warning(include Critical), 2:Critical
lang	en_US, zh_TW, zh_CN, user_1, user_2
time1	start date (if there is no time1, read from the last log)
time2	end date (time1 and time2 must be paired, otherwise an error will be returned)

- Response:

HTTP/1.1 200 OK

Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "total_count":integer,
  "return_count":integer,
  "log_data":[
    {
      "date":"string",           /* data is returned from startIdx */
      "time":"string",
      "log_level":integer,      /* refer eventLevel */
      "description":"string"
    },
    .....
  ]
}
```

## 5.3. Inlet History Log

Get inlet history log.

- Resource URL:

[https://<spdu\\_ip>/api/log/inlet\\_log](https://<spdu_ip>/api/log/inlet_log)

- Request:

GET

[<spdu\\_ip>/api/log/inlet\\_log?startIdx=integer&displayNum=integer&lang=en\\_US&time1=dd/mm/yyyy&time2=dd/mm/yyyy&timeBase=integer](https://<spdu_ip>/api/log/inlet_log?startIdx=integer&displayNum=integer&lang=en_US&time1=dd/mm/yyyy&time2=dd/mm/yyyy&timeBase=integer) HTTP 1.1

Host: localhost

Cookie:



trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Name	Description
startIdx	offset of log from the last log
displayNum	log count, which will be displayed on the web page
time1	start date (if there is no time1, read from the last log)
time2	end date (time1 and time2 must be paired, otherwise an error will be returned)
timeBase	time from the last log, ex: 30 minutes, timeBase equal to 1800 (seconds)
lang	en_US, zh_TW, zh_CN, usr_1, user_2

- Response:

HTTP/1.1 200 OK

Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "total_count":integer,
  "return_count":integer,
  "log_data":[
    {
      "date":"string",
      "time":"string",
      "energy":integer,
      "voltage":[integer,integer,integer],
      "pf":[integer,integer,integer], /* power factor */
      "freq":[integer,integer,integer], /* frequency */
      "current_b1":[integer,integer,integer], /* circuit breaker 1 current */
      "current_b2":[integer,integer,integer] /* circuit breaker 2 current */
      "power":integer,
      "max_power":integer,
      "current":[integer,integer,integer],
      "max_current":[integer,integer,integer],
    },
    .....
  ]
}
```

## 5.4. Environment Log

Get environment history log.

- Resource URL:  
https://<spdu\_ip>/api/log/emd\_log
- Request:  
GET  
<spdu\_ip>/api/log/emd\_log?startIdx=integer&displayNum=integer&lang=en\_US&time1=dd/mm/yyyy  
&time2=dd/mm/yyyy&timeBase=integer HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d  
25a8a7a0ae

Name	Description
startIdx	offset of log from the last log
displayNum	log count, which will be displayed on the web page
time1	start date (if there is no time1, read from the last log)
time2	end date (time1 and time2 must be paired, otherwise an error will be returned)
timeBase	time from the last log, ex: 30 minutes, timeBase equal to 1800 (seconds)
lang	en_US, zh_TW, zh_CN, usr_1, user_2

- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{
  "total_count":integer,
  "return_count":integer,
  "temp_unit":integer,           /* MIB_EMD_HTTP_TEMPERATURE_UNIT, 0:Centigrade; 1:Fahrenheit */
  "log_data":[                 /* array size is return_count */
    {
      "date":"string",
      "time":"string",
      "temperature":[integer,...], /* temperature, array size is 8 */
      "humidity":[integer,...]   /* humidity, array size is 8 */
    },
    .....
  ]
}
```

# 5.5. Clear Log

Clear system/event log, inlet history log and emd history log.

- Resource URL:  
https://<spdu\_ip>/api/log/delete\_log
- Request:  
DELETE  
<spdu\_ip>/api/log/delete\_log?sys\_log=integer&event\_log=integer&inlet\_log=integer&emd\_log=integer HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Name	Description
integer	0:doesn't delete, 1:delete

- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Content-type: application/json  
Accept: application/json  
Content-type: application/json

{"error":0} /\* 0:success, 1:error \*/

# 5.6. Save Log

Save system/event log, inlet history log and emd history log.

- Save system log.
  - Resource URL:  
https://<spdu\_ip>/api/log/save\_log/sys\_log
  - Request:  
GET <spdu\_ip>/api/log/save\_log/sys\_log?lang=en\_US HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Name	Description
lang	en_US, zh_TW, zh_CN, user_1, user_2

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Content-type: text/csv

Content-Disposition: attachment; filename=sys\_log.csv

/\* file content \*/

● Save sensor event log

■ Resource URL:

https://<spdu\_ip>/api/log/save\_log/event\_log

■ Request:

GET <spdu\_ip>/api/log/save\_log/event\_log?lang=en\_US HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Name	Description
lang	en_US, zh_TW, zh_CN, user_1, user_2

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Content-type: text/csv

Content-Disposition: attachment; filename=event\_log.csv

/\* file content \*/

● Save inlet history log.

● Resource URL:

https://<spdu\_ip>/api/log/save\_log/inlet\_log

● Request:

GET <spdu\_ip>/api/log/save\_log/inlet\_log?lang=en\_US HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

● Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Content-type: text/csv

Content-Disposition: attachment; filename=inlet\_log.csv

/\* file content \*/

- Save emd history log.
  - Resource URL:  
https://<spdu\_ip>/api/log/save\_log/emd\_log
  - Request:  
GET <spdu\_ip>/api/log/save\_log/emd\_log?lang=en\_US HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Content-type: text/csv  
Content-Disposition: attachment; filename=emd\_log.csv

/\* file content \*/

## 6. Advance

### 6.1. Syslog Setting

Configure all parameters for syslog setting.

- POST
  - Resource URL:  
https://<spdu\_ip>/api/advance/syslog\_setting
  - Request:  
POST <spdu\_ip>/api/advance/syslog\_setting HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Accept: application/json  
Content-type: application/json

```
{  
  "syslog_enable":[integer,integer], /* MIB_SYSLOG_CONTROL, integer: 0 – disabled, 1 – enabled, index: 0 – system/event  
log, 1 – history log */  
  "syslog_ipaddr":["string","string"], /* MIB_SYSLOG_SERVER_IP */
```

```
        "syslog_port":[integer,integer]          /* MIB_SYSLOG_SERVER_PORT */
    }
```

- Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{ "error":0 }          /* 0:success, 1:error */
```

- GET

- Resource URL:  
https://<spdu\_ip>/api/advance/syslog\_setting
- Request:  
GET <spdu\_ip>/api/advance/syslog\_setting HTTP 1.1  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
/* refer POST content */
```

## 6.2. Maintenance

### 6.2.1. Reset to Default

Reset parameters to default.

- POST

- Resource URL:  
https://<spdu\_ip>/api/advance/maintenance/reset
- Request:  
POST <spdu\_ip>/api/advance/maintenance/reset HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json  
Content-type: application/json

```
{  
  "reset":integer,          /* MIB_UPS_SYSTEM_RESTART_DEFAULT, 0: do nothing, 1:parameter reset */  
}
```

- Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{  
  "error":0                /* 0:success, 1:error */  
}
```

## 6.2.2. SNMP Card Firmware Upgrade

- POST
  - Resource URL:  
https://<spdu\_ip>/api/advance/maintenance/fw\_upgrade
  - Request:  
POST <spdu\_ip>/api/advance/maintenance/fw\_upgrade HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Content-Type: multipart/form-data; boundary=-----xxxxxx...  
  
/\* file content \*/
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Content-type: application/json

```
{  
  "error":0  
}
```

error	-1: already in the upgrade process 0: start to upgrade firmware 1: upgrade function be disabled 2: upgrade process error
-------	---

- GET

- Resource URL:

https://<spdu\_ip>/api/advance/maintenance/fw\_upgrade

- Request:

GET <spdu\_ip>/api/advance/maintenance/fw\_upgrade HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "progress":integer /* the upgrading % */
}
```

### 6.2.3. Reboot

Restart snmp card.

- POST

- Resource URL:

https://<spdu\_ip>/api/advance/maintenance/reboot

- Request:

POST <spdu\_ip>/api/advance/maintenance/reboot HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "reboot":integer, /* MIB_UPS_SYSTEM_RESTART_DEFAULT, 0: do nothing, 2:card reboot */
}
```



- Response:
  - HTTP/1.1 200 OK
  - Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800
  - Accept: application/json
  - Content-type: application/json

```
{
  "error":0
} /* 0:success, 1:error */
```

## 6.2.4. EMD Firmware Upgrade

- POST
  - Resource URL:
    - https://<spdu\_ip>/api/advance/maintenance/emd\_fwupg
  - Request:
    - POST <spdu\_ip>/api/advance/maintenance/emd\_fwupg HTTP 1.1
    - Host: localhost
    - Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
    - Content-Type: multipart/form-data; boundary=-----xxxxxx...

/\* file content \*/

- Response:
  - HTTP/1.1 200 OK
  - Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800
  - Accept: application/json
  - Content-type: application/json

```
{
  "error":0
}
```

error	-1: already in the upgrade process 0: start to upgrade firmware 1: upgrade function be disabled 2: upgrade process error
-------	---

- GET upgrade status.
  - Resource URL:

https://<spdu\_ip>/api/advance/maintenance/emd\_fwupg

■ Request:

GET <spdu\_ip>/api/advance/maintenance/emd\_fwupg HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "upload_progress":integer,           /*MIB_SENSOR_FW_UPLOAD_PROGRESS, the uploading % */
  "current_version":"string",         /* MIB_SENSOR_EMD_FW_VERSION */
  "upload_version":"string",         /* reserved */
  "update_progress":integer,         /* MIB_SENSOR_FW_UPDATE_PROGRESS, the upgrading % */
  "update_dev":integer,              /* MIB_SENSOR_FW_UPDATE_DEV */
  "update_state":integer             /* reserved */
}
```

upload_progress	no error: 0 ~ 100
update_progress	no error: 0 ~ 100
update_state	
update_dev	which device is upgrading 1 – EMD-1 2 – EMD-2 : 8 – EMD-8

## 6.2.5. Inlet Firmware Upgrade

● POST

■ Resource URL:

https://<spdu\_ip>/api/advance/maintenance/inlet\_fwupg

■ Request:

POST <spdu\_ip>/api/advance/maintenance/inlet\_fwupg HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69

153d25a8a7a0ae

Content-Type: multipart/form-data; boundary=-----xxxxxx...

/\* file content \*/

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "error":0
}
```

error	-1: already in the upgrade process 0: start to upgrade firmware 1: upgrade function be disabled 2: upgrade process error
-------	---

● GET upgrade status.

■ Resource URL:

https://<spdu\_ip>/api/advance/maintenance/inlet\_fwupg

■ Request:

GET <spdu\_ip>/api/advance/maintenance/inlet\_fwupg HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69  
153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "current_version":integer,           /* MIB_PDU_INLET_FW_VER_AC1 */
  "inlet_type":integer,               /* MIB_PDU_INLET_TYPE_AC1, bit0=0(CT x 1); bit0=1(CT x 2)
                                       bit1=0(1 Phase); bit1=1(3 Phase)
                                       bit2=0(16A); bit2=1(32A) */
  "update_version":integer,          /* MIB_PDU_INLET_UPGRADE_IMAGE_VERSION */
  "upgrade_progress":integer         /* MIB_PDU_INLET_UPGRADE_PROGRESS */
}
```

## 6.3. Import / Export

### 6.3.1. Import Configuration File

Upload configuration file.

- POST

- Resource URL:

https://<spdu\_ip>/api/advance/import/conf\_file

- Request:

POST <spdu\_ip>/api/advance/import/conf\_file HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Content-Type: multipart/form-data; boundary=-----xxxxxx...

Content-Disposition: form-data; filename=conf\_file.json

/\* file content \*/

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

{ "error":0 }

- GET

- Resource URL:

https://<spdu\_ip>/api/advance/import/conf\_file

- Request:

GET <spdu\_ip>/api/advance/import/conf\_file HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "progress":integer                               /* the uploading % */
}
```

## 6.3.2. Export Configuration File

Download configuration file.

- GET
  - Resource URL:  
https://<spdu\_ip>/api/advance/export/conf\_file
  - Request:  
GET <spdu\_ip>/api/advance/export/conf\_file HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Content-type: text/json  
Content-Disposition: attachment; filename=conf\_file.json  
  
/\* file content \*/

## 6.4. String Setting

Configure web strings.

- POST language #1
  - Resource URL:  
https://<spdu\_ip>/api/advance/string\_setting?lang=1
  - Request:  
POST <spdu\_ip>/api/advance/string\_setting?lang=1 HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Accept: application/json  
Content-type: application/json

```

{
  ".lang_config":{
    "usr_1_name":"string",
    "usr_1_enable":integer,          /* 0:disabled, 1:enabled */
    "serial":integer,
    "timestamp":"string"           /* 2020-02-06T03:32:34.519Z */
  },
  "web":{
    "key1":"string",
    "key2":"string",
    .....
  }
}

```

key1 to keyn in web object will be replaced by Appendix 2. Page String List.

key1 to keyn in event object will be replaced by id field of langEventList in Appendix 3.

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{"error":0}                                /* 0:success, 1:error */

```

● POST language #2

■ Resource URL:

https://<spdu\_ip>/api/advance/string\_setting?lang=2

■ Request:

POST <spdu\_ip>/api/advance/string\_setting?lang=2 HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```

{
  ".lang_config":{
    "usr2_name":"string",
    "usr2_enable":integer,          /* 0:disabled, 1:enabled */
    "serial":integer,
    "timestamp":"string"           /* 2020-02-06T03:32:34.519Z */
  }
}

```

```

    },
    "web":{
        "key1":"string",
        "key2":"string",
        .....
    }
}

```

key1 to keyn in web object will be replaced by Appendix 2. Page String List.

key1 to keyn in event object will be replaced by id field of langEventList in Appendix 3.

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{"error":0} /* 0:success, 1:error */

```

- GET language #1 or language #2.

- Resource URL:

https://<spdu\_ip>/api/advance/string\_setting?lang=n /\* n is 1 or 2 \*/

- Request:

GET <spdu\_ip>/api/advance/string\_setting?lang=n HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

/* refer POST content */

```

## 6.5. Event String Setting

Configure event strings.

- POST language #1

- Resource URL:

https://<spdu\_ip>/api/advance/event\_setting?lang=1

- Request:

POST <spdu\_ip>/api/advance/event\_setting?lang=1 HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  ".lang_config":{
    "usr_1_name":"string",
    "usr_1_enable":integer,          /* 0:disabled, 1:enabled */
    "serial":integer,
    "timestamp":"string"          /* 2020-02-06T03:32:34.519Z */
  },
  "event":{
    "key1":{"usr_1":"string", "index":integer},
    "key2":{"usr_1":"string", "index":integer},
    .....
  }
}
```

key1 to keyn in web object will be replaced by Appendix 2. Page String List.

key1 to keyn in event object will be replaced by id field of langEventList in Appendix 3.

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{"error":0}          /* 0:success, 1:error */
```

● POST language #2

■ Resource URL:

https://<spdu\_ip>/api/advance/event\_setting?lang=2

■ Request:

POST <spdu\_ip>/api/advance/event\_setting?lang=2 HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json



```

{
  ".lang_config":{
    "usr2_name":"string",
    "usr2_enable":integer,          /* 0:disabled, 1:enabled */
    "serial":integer,
    "timestamp":"string"          /* 2020-02-06T03:32:34.519Z */
  },
  "event":{
    "key1":{"usr_2":"string", "index":integer},
    "key2":{"usr_2":"string", "index":integer},
    .....
  }
}

```

key1 to keyn in web object will be replaced by Appendix 2. Page String List.

key1 to keyn in event object will be replaced by id field of langEventList in Appendix 3.

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```

{"error":0}          /* 0:success, 1:error */

```

● GET language #1 or language #2.

■ Resource URL:

https://<spdu\_ip>/api/advance/event\_setting?lang=n /\* n is 1 or 2 \*/

■ Request:

GET <spdu\_ip>/api/advance/event\_setting?lang=n HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 6.6. Upload / Download

### 6.6.1. Upload Language File

- Upload language file.
  - Resource URL:  
https://<spdu\_ip>/api/advance/lang\_upload
  - Request:  
POST <spdu\_ip>/api/advance/lang\_upload HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Content-Type: multipart/form-data; boundary=-----xxxxxx...  
Content-Disposition: form-data; filename=spdu\_lang  
  
/\* file content \*/
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;  
Max-Age=1800  
Accept: application/json  
Content-type: application/json  
  
{"error":0} /\* 0:success, 1:error \*/
- Get upload language status.
  - Resource URL:  
https://<spdu\_ip>/api/advance/lang\_upload
  - Request:  
GET <spdu\_ip>/api/advance/lang\_upload HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;  
Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{
    "progress":integer                /* the uploading % */
}
```

## 6.6.2. Download Language File

- Download language #1
  - Resource URL:  
`https://<spdu_ip>/api/advance/lang_download?lang=1`
  - Request:  
GET <spdu\_ip>/api/advance/lang\_download?lang=1 HTTP 1.1  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;  
Max-Age=1800  
Content-Type: application/octet-stream  
Content-Disposition: attachment; filename=spdu\_lang1  
  
/\* file content \*/
- Download language #2
  - Resource URL:  
`https://<spdu_ip>/api/advance/lang_download?lang=2`
  - Request:  
GET <spdu\_ip>/api/advance/lang\_download?lang=2 HTTP 1.1  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
  - Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;  
Max-Age=1800  
Content-Type: application/octet-stream  
Content-Disposition: attachment; filename=spdu\_lang2  
  
/\* file content \*/

## 6.7. Links Setting

Configure all parameters for Links Setting.

- POST

- Resource URL:

https://<spdu\_ip>/api/advance/links\_setting

- Request:

POST <spdu\_ip>/api/advance/links\_setting HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "screen_text":["string",.....],           /* MIB_AGENT_ELINK_NAME, array size is 4 */
  "link_addr":["string", .....],          /* MIB_AGENT_ELINK_ADDRESS */
  "status":[integer, .....]              /* MIB_AGENT_ELINK_STATUS, 0:hide, 1:show */
}
```

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{ "error":0 }
```

- GET

- Resource URL:

https://<spdu\_ip>/api/advance/links\_setting

- Request:

GET <spdu\_ip>/api/advance/links\_setting HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 7. External Links

Get external link.

- Resource URL:  
https://<spdu\_ip>/api/external\_link
- Request:  
GET <spdu\_ip>/api/external\_link HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae
- Response:  
HTTP/1.1 200 OK  
Set-Cookie: trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{  
  "web_link": "string", /* MIB_PDU_WEB_LINK */  
  "screen_text": ["string", .....], /* MIB_AGENT_ELINK_NAME, array size is 4 */  
  "link_addr": ["string", .....], /* MIB_AGENT_ELINK_ADDRESS */  
  "status": [integer, .....] /* MIB_AGENT_ELINK_STATUS, 0:hide, 1:show */  
}
```

## 8. Manufacture Setting

### 8.1. Setting

Configure all parameters for Manufacture.

- POST
  - Resource URL:  
https://<spdu\_ip>/api/manu\_setting/setting
  - Request:  
POST <spdu\_ip>/api/manu\_setting/setting HTTP 1.1  
Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Accept: application/json

Content-type: application/json

```
{
  "pdu_type":"string",          /* MIB_PDU_MANU_TYPE, string size is 31 bytes */
  "web_link":"string",        /* MIB_PDU_MANU_WEB_LINK, string size is 63 bytes */
  "sys_name":"string",       /* MIB_PDU_MANU_SYSTEM_NAME, string size is 31 bytes */
  "sys_contact":"string",    /* MIB_PDU_MANU_SYSTEM_CONTACT, string size is 31 bytes */
  "lcm_type":integer          /* MIB_PDU_MANU_LCM_TYPE, 0:STN; 1:OLED */
  "rcm_type":integer          /* MIB_PDU_MANU_RCM_TYPE, 0 – TCMB121-1(DC Type),
1 –RCMB121-2(AC Type) */
  "serial_num":integer        /* MIB_SYSTEM_SERIAL_NUMBER, string size is 31 bytes */
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

{ "error":0 }

● GET

■ Resource URL:

https://<spdu\_ip>/api/manu\_setting/setting

■ Request:

GET <spdu\_ip>/api/manu\_setting/setting HTTP 1.1

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

/\* refer POST content \*/

## 8.2. Upload Logo

- POST

- Resource URL:

https://<spdu\_ip>/api/manu\_setting/upload\_logo

- Request:

POST <spdu\_ip>/api/manu\_setting/upload\_logo HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

Content-Type: multipart/form-data; boundary=-----xxxxxx...

/\* file content \*/

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Content-type: application/json

```
{
  "error":0
}
```

- GET

- Resource URL:

https://<spdu\_ip>/api/manu\_setting/upload\_logo

- Request:

GET <spdu\_ip>/api/manu\_setting/upload\_log HTTP 1.1

Host: localhost

Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae

- Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{
  "progress":integer
  /* the upgrading % */
}
```

```
}
```

## 8.3. Restore Logo

Restore logo to original logo.

- POST
  - Resource URL:  
https://<spdu\_ip>/api/manu\_setting/restore\_logo
  - Request:  
POST <spdu\_ip>/api/manu\_setting/restore\_logo HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Accept: application/json  
Content-type: application/json

```
{  
    "restore_logo":integer                               /* MIB_PDU_MANU_RESTORE_LOGO, 0:undo; 1:restore logo */  
}
```

- Response:  
HTTP/1.1 200 OK  
Set-Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800  
Accept: application/json  
Content-type: application/json

```
{"error":0 }
```

## 8.4. LCM\_TEST

Test 7 segment LED and LCM.

- POST
  - Resource URL:  
https://<spdu\_ip>/api/manu\_setting/lcm\_test
  - Request:  
POST <spdu\_ip>/api/manu\_setting/lcm\_test HTTP 1.1  
Host: localhost  
Cookie:  
trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;nc=00000002;cnonce=69153d25a8a7a0ae  
Accept: application/json



Content-type: application/json

```
{  
  "lcm_test":integer /* MIB_PDU_MANU_LCM_TEST, 0:undo; 1:do LCM test */  
}
```

■ Response:

HTTP/1.1 200 OK

Set-Cookie:

trackid=ddc8369e9c91ae4dfba1d51441588a1d;uid=7a0aedfba1d514c9;Max-Age=1800

Accept: application/json

Content-type: application/json

```
{ "error":0 }
```

## Appendix 1. Resource Mapping

TBD

## Appendix 2. Page String List

TBD

## Appendix 3. Event String List

TBD