

# SISPM1040-3248-L and SISPM1040-3166-L

## API User Guide

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# 1. Login

**URL:** /api/login

**Method:** POST

**Request JSON:**

```
{
  "login": {
    "username" : "admin",
    "password" : "admin",
    "user_ip": "192.168.1.77",
    "sessid": "123456789"
  }
}
```

**Response JSON:**

```
{
  "response":{
    "status":"error",
    "message":"Wrong username or password!"
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
username	String	1-31 alphanumeric	
password	String	0-31 alphanumeric	
use_ip	String	<ip4 address>	
sessid	String	<cookie>	

## 2. Logout

**URL:** /api/logout

**Method:** POST

**Request JSON:**

```
{
  "logout": {
    "sessid": "12345678"
  }
}
```

**Response JSON:**

```
{
  "response": {
    "status": "success"
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
sessid	String	<cookie>	

## 3. Reboot

**URL:** /api/reboot

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "warm": "Yes"
  }
}
```

**Response JSON:** null

**Section:**

Name	Data type	Allowed / Value	Default Value
warm	String	"Yes"	

## 4. Get System Information

**URL:** /api/get\_sysinfo

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "information": {
      "model_name": "SISPM1040-3248-L",
      "description": " Managed Hardened PoE+ Switch, (24) 10/100/1000Base-T PoE+ ports + (4)
100/1000Base-X SFP + (4) 1G/10G SFP+ ",
      "hardware_version": "v1.02",
      "mechanical_version": "v1.01",
      "firmware_version": "v8.40.1936 2020-09-25",
      "mac_addr": "00-11-22-33-44-55",
      "serial_number": "A139119BR2500001",
      "system_name": "SISPM1040-3248-L",
      "location": "",
      "contact": "",
      "system_date": "2017-01-01T01:44:55+09:00",
      "uptime": "17:56:09",
      "cpu_load": "51%, 25%, 17%",
      "temperature_1": 50,
      "temperature_2": 64
    }
  }
}
```

## 5. Set System Information

**URL:** /api/set\_sysinfo

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "information": {
      "system_name": "Test name",
      "location": "Test Location",
      "contact": "Test Contact"
    }
  }
}
```

**Response JSON:**

```
{
  "system": {
    "information": {
      "system_name": "Test name",
      "location": "Test Location",
      "contact": "Test Contact"
    }
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
system_name	String	0-128 alphanumeric	
location	String	0-128 alphanumeric	
contact	String	0-128 alphanumeric	

## 6. Get PoE Status

**URL:** /api/get\_poe\_status

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "poe": {
    "total_power_allocate": 140,
    "total_power_used": 48,
    "total_current_used": 95
  },
  "ports": [{
    "id": 1,
    "poe": {
      "pd_class": "2",
      "priority": "Low",
      "port_status": "PoE turned ON",
      "power_allocate": 70,
      "power_used": 29,
      "current_used": 52
    }
  }],
  ... ..
}
```

**Section:**

Name	Data type	Unit
total_power_allocate	Integer	0.1 watt
total_power_used	Integer	0.1 watt
total_current_used	Integer	mA
power_allocate	Integer	0.1 watt
power_used	Integer	0.1 watt
current_used	Integer	mA

## 7. Get PoE Config

**URL:** /api/get\_poe\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "poe": {
    "total_power_watts": 2000,
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 30,
        "schedule": "Disabled"
      }
    },
    ... ..
  ]
}
```

**Section:**

Name	Data type	Unit
total_power_watts	Integer	watt
power_limit_user	Integer	watt



## 8. Set PoE Config

URL: /api/set\_poe\_config

Method: POST

Request JSON:

```
{
  "poe": {
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 30,
        "schedule": "Disabled"
      }
    },
    ... ..
  ]
}
```

Response JSON:

```
{
  "poe": {
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 30,
        "schedule": "Disabled"
      }
    },
    ... ..
  ]
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
power_determined_mode	String	"Class"、"Allocation"、 "LLDP-Med"	Allocation
power_management_mode	String	"Actual Consumption"、 "Reserved Power"	Actual Consumption
capacitor_detection	Boolean		false
id	Integer	<Port number>	
mode	String	"Enabled"、"Disabled"	Enabled
priority	String	"Low"、"High"、"Critical"	Low
power_limit_user	Integer	1-30 watt	30
schedule	String	"Disabled"、<Profile Name>	Disabled

## 9. Get PoE Auto Checking

**URL:** /api/get\_poe\_auto\_checking**Method:** GET**Request JSON:** null**Response JSON:**

```
{
  "poe": {
    "ping_check": false,
  },
  "ports": [
    {
      "id": 1,
      "poe_auto_checking": {
        "ip": "0.0.0.0",
        "startup_time": 60,
        "interval_time": 30,
        "retry_time": 3,
        "error": 0,
        "total": 0,
        "failure_reboot": false,
        "reboot_time": 15,
        "max_reboot_times": 3
      }
    },
    ... ..
  ]
}
```

**Section:**

Name	Data type
error	Integer
total	Integer

## 10. Set PoE Auto Checking

**URL:** /api/set\_poe\_auto\_checking**Method:** POST**Request JSON:**

```
{
  "poe": {
    "ping_check": false,
  },
  "ports": [
    {
      "id": 1,
      "poe_auto_checking": {
        "ip": "0.0.0.0",
        "startup_time": 60,
        "interval_time": 30,
        "retry_time": 3,
        "failure_reboot": false,
        "reboot_time": 15,
        "max_reboot_times": 3
      }
    },
    ... ..
  ]
}
```

**Response JSON:**

```
{
  "poe": {
    "ping_check": false,
  },
  "ports": [
    {
      "id": 1,
      "poe_auto_checking": {
        "ip": "0.0.0.0",
        "startup_time": 60,
        "interval_time": 30,
        "retry_time": 3,

```

```

        "error": 0,
        "total": 0,
        "failure_reboot": false,
        "reboot_time": 15,
        "max_reboot_times": 3
    }
},
... ..
]
}

```

**Section:**

Name	Data type	Allowed / Value	Default Value
ping_check	Boolean		false
id	Integer	<Port number>	
ip	String	"<ip4 address>	
startup_time	Integer	30-600	60
interval_time	Integer	10-120	30
retry_time	Integer	1-5	3
failure_reboot	Boolean		false
reboot_time	Integer	3-120	15
max_reboot_times	Integer	0-10	3

## 11. Get Port Statistics

**URL:** /api/get\_port\_statistics

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "ports": [
    {
      "id": 1,
      "statistics": {
        "rx_packets": {
          "all": 93536,
          "octets": 11676072,
          "unicast": 44332,
          "multicast": 37536,
          "broadcast": 11672,
          "pause": 26816,
          "64 bytes": 55171,
          "65-127 bytes": 6235,
          "128-255 bytes": 5317,
          "256-511 bytes": 5841,
          "512-1023 bytes": 3493,
          "1024-1526 bytes": 1,
          "1527-max bytes": 0,
          "Q0": 0,
          "Q1": 0,
          "Q2": 0,
          "Q3": 0,
          "Q4": 0,
          "Q5": 0,
          "Q6": 0,
          "Q7": 0,
          "drop": 26816,
          "crc_alignment": 0,
          "oversize": 0,
          "undersize": 0,
          "fragments": 0,
          "jabber": 0,
          "filtered": 0
        },
        "tx_packets": {
          "all": 130311,
          "octets": 14036132,
          "unicast": 9516,
```

```
"multicast": 1123,  
"broadcast": 119672,  
"pause": 0,  
"64 bytes": 77115,  
"65-127 bytes": 9511,  
"128-255 bytes": 336,  
"256-511 bytes": 302,  
"512-1023 bytes": 1251,  
"1024-1526 bytes": 2668,  
"1527-max bytes": 0,  
"Q0":0,  
"Q1":0,  
"Q2":0,  
"Q3":0,  
"Q4":0,  
"Q5":0,  
"Q6":0,  
"Q7":0,  
"drop": 0,  
"late_excessive_collision": 0
```

```
}
```

```
}
```

```
},
```

```
... ..
```

```
]
```

```
}
```

## 12. Get Port Config

**URL:** /api/get\_port\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "ports": [
    {
      "id": 1,
      "link": "1Gfdx",
      "media": "copper",
      "speed_mode": "Auto",
      "flow_control": false,
      "jumbo_frames": 9600,
      "description": ""
    },
    ... ..
  ]
}
```

## 13. Set Port Config

URL: /api/set\_port\_config

Method: POST

Request JSON:

```
{
  "ports": [
    {
      "id": 1,
      "speed_mode": "Auto",
      "flow_control": false,
      "jumbo_frames": 9600,
      "description": "test description"
    },
    ... ..
  ]
}
```

Response JSON:

```
{
  "ports": [
    {
      "id": 1,
      "link": "down",
      "media": "copper",
      "speed_mode": "Auto",
      "flow_control": false,
      "jumbo_frames": 9600,
      "description": "test description"
    },
    ... ..
  ]
}
```

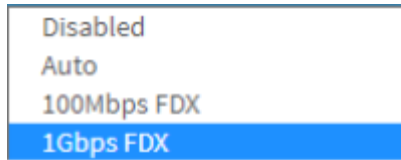
Section:

Name	Data type	Allowed / Value	Default Value
id	Integer	<Port number>	
speed_mode	String	"Disabled" "Auto" "10Mbps HDX" "10Mbps FDX" "100Mbps HDX" "100Mbps FDX" "1Gbps FDX"	Auto

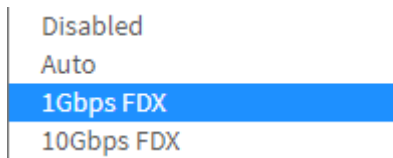


		"10Gbps FDX"	
flow_control	Boolean		false
jumbo_frames	Integer	1518-10240	10240
description	String	0-63 alphanumeric	

**Note:** For Group-1 of SISPM1040-3166-L (Ports-17,18,19,20), SISPM1040-3248-L (Ports 25, 26, 27, 28) the Speed mode is set as shown below:



For Group-2 of SISPM1040-3166-L (Ports-21 and 22), SISPM1040-3248-L (Ports 29,30,31,32) the Speed mode is set as shown below:



## 14. Firmware Upgrade

**URL:** /api/firmware\_upgrade

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "firmware": {
      "upgrade_url": " http://192.168.1.77/test.dat"
    }
  }
}
```

**Response JSON:** null

**Section:**

Name	Data type	Allowed / Value	Default Value
upgrade_url	String	<URL>	

## 15. Get Firmware Upgrade Status

**URL:** /api/get\_firmware\_upgrade\_status

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "firmware": {
      "upgrade_status": "idle"
    }
  }
}
```

## 16. Get Account Configuration

**URL:** /api/get\_account\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "account": [{
    "username" : "admin",
    "privilege_level" : 15
  },
  ... ..
  ]
}
```

## 17. Set Account Configuration

**URL:** /api/set\_account\_config

**Method:** POST

**Request JSON:**

```
{
  "account": {
    "status": "NEW",
    "username": "superuser",
    "password": "superuser",
    "privilege_level": 15
  }
}
```

**Response JSON:**

```
{
  "account": [{
    "username": "superuser",
    "privilege_level": 15
  }],
  ... ..
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
status	String	"EDIT"、"NEW"、"DEL"	
username	String	1-31 alphanumeric	
password	String	0-31 alphanumeric	
privilege_level	Integer	0-15	0

**Note:** Only modify one at a time.

## 18. Get MAC Table Information

**URL:** /api/get\_dynamic\_mac\_table

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "mac_table": [{
    "type": "Dynamic",
    "mac": "00-11-22-33-44-55",
    "vid": 1,
    "port": 9
  },
  ... ..
  ]
}
```

## 19. Save Configuration

**URL:** /api/save\_configuration

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "response ": {
    "status": "success",
    "message": "startup-config saved successfully."
  }
}
```

## 20. Get System Time

**URL:** /api/get\_system\_time

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "time": {
      "clock_source": "Local Setting",
      "system_date": "2017-01-01 01:01:30",
      "time_zone": "5400",
      "acronym": "",
      "daylight": {
        "mode": "disable",
        "offset": 60,
        "start_time": {
          "year": 0,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        },
        "end_time": {
          "year": 0,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        }
      }
    }
  }
}
```

## 21. Set System Time

**URL:** /api/set\_system\_time

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "time": {
      "clock_source": "Local Setting",
      "system_date": "2017-01-01 01:01:30",
      "time_zone": "5400",
      "acronym": "",
      "daylight": {
        "mode": "disable",
        "offset": 60,
        "start_time": {
          "year": 0,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        },
        "end_time": {
          "year": 0,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        }
      }
    }
  }
}
```

**Response JSON:**

```
{
  "system": {
    "time": {
      "clock_source": "Local Setting",
      "system_date": "2017-01-01 01:01:30",
      "time_zone": "5400",
      "acronym": "",
      "daylight": {
        "mode": "disable",
        "offset": 60,
```





**Time Zone Mapping Table:**

<b>Value</b>	<b>Note</b>
-7200	(GMT-12:00)
-6600	(GMT-11:00)
-6000	(GMT-10:00)
-5400	(GMT-09:00)
-4800	(GMT-08:00)
-4200	(GMT-07:00)
-3600	(GMT-06:00)
-3000	(GMT-05:00)
-2700	(GMT-04:30)
-2400	(GMT-04:00)
-2100	(GMT-03:30)
-1800	(GMT-03:00)
-1200	(GMT-02:00)
-600	(GMT-01:00)
0	(GMT+00:00)
600	(GMT+01:00)
1200	(GMT+02:00)
1800	(GMT+03:00)
2100	(GMT+03:30)
2400	(GMT+04:00)
2700	(GMT+04:30)
3000	(GMT+05:00)
3300	(GMT+05:30)
3450	(GMT+05:45)
3600	(GMT+06:00)
3900	(GMT+06:30)
4200	(GMT+07:00)
4800	(GMT+08:00)
5400	(GMT+09:00)
5700	(GMT+09:30)
6000	(GMT+10:00)
6600	(GMT+11:00)
7200	(GMT+12:00)

## 22. Get NTP Server

**URL:** /api/get\_ntp\_server

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "ntp": {
      "automatic": true,
      "interval": 60,
      "server1": "ntp.transition.com",
      "server2": "ntp.transition1.com",
      "server3": "",
      "server4": "",
      "server5": ""
    }
  }
}
```

## 23. Set NTP Server

URL: /api/set\_ntp\_server

Method: POST

Request JSON:

```
{
  "system": {
    "ntp": {
      "automatic": true,
      "interval": 60,
      "server1": "ntp.transition.com",
      "server2": "ntp.transition1.com",
      "server3": "",
      "server4": "",
      "server5": ""
    }
  }
}
```

Response JSON:

```
{
  "system": {
    "ntp": {
      "automatic": true,
      "interval": 60,
      "server1": "ntp.transition.com",
      "server2": "ntp.transition1.com",
      "server3": "",
      "server4": "",
      "server5": ""
    }
  }
}
```

Section:

Name	Data type	Allowed / Value	Default Value
automatic	Boolean		False
interval	Integer	5、 10、 15、 30、 60、 120 min	60
server1	String	Provide the IPv4 or IPv6 address of a NTP server.	
server2	String	Provide the IPv4 or IPv6 address of a NTP server.	
server3	String	Provide the IPv4 or IPv6 address of a NTP server.	
server4	String	Provide the IPv4 or IPv6 address of a NTP server.	
server5	String	Provide the IPv4 or IPv6 address of a NTP server.	

## 24. Get Syslog Server

**URL:** /api/get\_syslog\_server

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system":{
    "syslog":{
      "mode": false,
      "server_address": "",
      "server_port": 514
    }
  }
}
```

## 25. Set Syslog Server

**URL:** /api/set\_syslog\_server

**Method:** POST

**Request JSON:**

```
{
  "system":{
    "syslog":{
      "mode": true,
      "server_address": "192.168.111.188",
      "server_port": 514
    }
  }
}
```

**Response JSON:**

```
{
  "system":{
    "syslog":{
      "mode": true,
      "server_address": "192.168.111.188",
      "server_port": 514
    }
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
mode	Boolean		false
server_address	String	<IPv4 address>	
server_port	Integer	1-65535	514

## 26. Get Vlan Config

**URL:** /api/get\_vlan\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "vlan": {
    "allowed_access_vlans": "1",
    "ethertype_custom_s_ports": "88a8"
  },
  "ports": [{
    "id": 1,
    "vlan": {
      "mode": "Access",
      "access": {
        "pvid": 1,
        "forbidden_vlan": "3,5"
      },
      "trunk": {
        "pvid": 1,
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": ""
      },
      "hybrid": {
        "pvid": 1,
        "port_type": "C-Port",
        "ingress_filter": false,
        "ingress_accept": "Tagged and Untagged",
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": ""
      }
    }
  },
  ... ..
]
```

## 27. Set Vlan Config

URL: /api/set\_vlan\_config

Method: POST

Request JSON:

```
{
  "vlan": {
    "allowed_access_vlans": "1",
    "ethertype_custom_s_ports": "88a8"
  },
  "ports": [{
    "id": 2,
    "vlan": {
      "mode": "Access",
      "access": {
        "pvid": 1,
        "forbidden_vlan": "3,5"
      }
    }
  },{
    "id": 3,
    "vlan": {
      "mode": "Trunk",
      "trunk": {
        "pvid": 1,
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": "3,5"
      }
    }
  },{
    "id": 4,
    "vlan": {
      "mode": "Hybrid",
      "hybrid": {
        "pvid": 1,
        "port_type": "C-Port",
        "ingress_filter": false,
        "ingress_accept": "Tagged and Untagged",
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": "3-5"
      }
    }
  },
  ... ..
}
```

```
]
}
```

**Response JSON:**

```
{
  "vlan": {
    "allowed_access_vlans": "1",
    "ethertype_custom_s_ports": "88a8"
  },
  "ports": [{
    "id": 2,
    "vlan": {
      "mode": "Access",
      "access": {
        "pvid": 1,
        "forbidden_vlan": "3,5"
      }
    }
  }],
  [{"id": 3,
    "vlan": {
      "mode": "Trunk",
      "trunk": {
        "pvid": 1,
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": "3,5"
      }
    }
  }],
  [{"id": 4,
    "vlan": {
      "mode": "Hybrid",
      "hybrid": {
        "pvid": 1,
        "port_type": "C-Port",
        "ingress_filter": false,
        "ingress_accept": "Tagged and Untagged",
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": "3-5"
      }
    }
  }],
  ... ..
}]
```

**Section:**

Name	Data type	Allowed / Value	Default Value
allowed_access_vlans	String	<port-list>	1
ethertype_custom_s_ports	String	<Ethertype>	88a8
id	Integer	<Port number>	
mode	String	"Access"、"Trunk"、"Hybrid"	Access
pvid	Integer	1-4095	1
port_type	String	"UNAWARE" "C-Port" "S-Port" "S-Custom-Port"	C-Port
ingress_filter	Boolean		false
ingress_accept	String	"Tagged and Untagged" "Tagged only" "Untagged only"	Tagged and Untagged
egress_tagging (in trunk)	String	"Untag Port VLAN" "Tag All"	Untag Port VLAN
egress_tagging (in hybrid)	String	"Untag Port VLAN" "Tag All" "Untag All"	Untag Port VLAN
allowed_vlan	String	<vlan-list>	1
forbidden_vlan	String	<vlan-list>	



## 28. Get Mac Based Vlan Config

**URL:** /api/get\_mac\_based\_vlan

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "vlan":{
    "mac_based_vlan": [{
      "mac": "00-11-22-33-44-55",
      "vid": 15,
      "members": "2,5-6"
    }
    ... ..
  ]
}
```

## 29. Get IP Address

**URL:** /api/get\_ip\_address

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "ip": {
      "interfaces": [{
        "vid": 1,
        "ipv4": {
          "dhcp": false,
          "fallback": 0,
          "current_lease": "192.168.111.126/24",
          "static_addr": "192.168.111.126",
          "static_mask": 24
        },
        "ipv6": {
          "static_addr": "",
          "static_mask": 0
        }
      }
      ... ..
    ]
  }
}
```

## 30. Set IP Address

**URL:** /api/set\_ip\_address

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "ip": {
      "interfaces": [{
        "vid": 1,
        "ipv4": {
          "dhcp": false,
          "fallback": 0,
          "static_addr": "192.168.111.126",
          "static_mask": 24
        },
        "ipv6": {
          "static_addr": "",
          "static_mask": 0
        }
      }
      ... ..
    ]
  }
}
```

**Response JSON:**

```
{
  "system": {
    "ip": {
      "interfaces": [{
        "vid": 1,
        "ipv4": {
          "dhcp": false,
          "fallback": 0,
          "current_lease": "192.168.111.126/24",
          "static_addr": "192.168.111.126",
          "static_mask": 24
        },
        "ipv6": {
          "static_addr": "",
          "static_mask": 0
        }
      }
      ... ..
    ]
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
dhcp	Boolean		
fallback	Integer	1-4294967295	
ipv4: static_addr	String	<ipv4 address>	
ipv4: static_mask	Integer	1-30	
ipv6: static_addr	String	<ipv6 address>	
ipv6: static_mask	Integer	1-128	

## 31. Get Mirror Config

**URL:** /api/get\_mirror\_config**Method:** GET**Request JSON:** null**Response JSON:**

```
{
  "system": {
    "mirror": [{
      "destination_port": 2,
      "source_tx": "4,6-8",
      "source_rx": "3,5,7-8"
    }]
  }
}
```

## 32. Set Mirror Config

**URL:** /api/set\_mirror\_config

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "mirror": [{
      "destination_port": 2,
      "source_tx": "4,6-8",
      "source_rx": "3,5,7-8"
    }]
  }
}
```

**Response JSON:**

```
{
  "system": {
    "mirror": [{
      "destination_port": 2,
      "source_tx": "4,6-8",
      "source_rx": "3,5,7-8"
    }]
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
destination_port	Integer	<port number>, 0 means disable	0
source_tx	String	<port list>	
source_rx	String	<port list>	

**Note:** Only support mirror mode.

### 33. Cable Diagnostics

**URL:** /api/cable\_diagnostics

**Method:** POST

**Request JSON:**

```
{
  "cable": {
    "port": 5
  }
}
```

**Response JSON:**

```
{
  "ports": [
    "id": 7,
    "cable_diagnostic": {
      "link": "1G",
      "result": "OK",
      "length": "6.00 (m)"
    }
  ]
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
port	Integer	<port number>	

## 34. Device List Table

**URL:** /api/dev\_list\_table

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "device_list_table":
  [
    {
      "switch_mac": "00-C0-F2-47-A6-F8",
      "switch_addr": "192.168.90.3",
      "device_name": "Switch A",
      "device_list":
      [
        {
          "port_no": 6,
          "poe_used": 0,
          "status": "on",
          "device_type": "SWITCH",
          "model_name": "SM8TAT2SA",
          "device_name": "Switch C",
          "mac": "00-C0-F2-47-A6-FA",
          "ip_addr": "192.168.90.5",
          "rx_rate": 1024,
          "link_partner_port_no": 1,
          "number_of_alarm_events": 2,
          "events":
          [
            {
              "date": "2010-01-01",
              "time": "23 51",
              "message": "Higher than maximum throughput limit"
            },
            {
              "date": "2010-01-01",
              "time": "23 52",
              "message": "Higher than maximum throughput limit"
            }
          ]
        },
        {
          "port_no": 10,
          "poe_used": 0,
          "status": "on",
          "device_type": "SWITCH",
          "model_name": "SM8TAT2SA",
          "device_name": "Switch B",
          "mac": "00-C0-F2-47-A6-F9",
          "ip_addr": "192.168.90.4",
          "rx_rate": 1024,
          "link_partner_port_no": 2,
          "number_of_alarm_events": 0,

```

```

    "events":[]
  },
  {
    "port_no" : 26,
    "poe_used": 34,
    "status": "on",
    "device_type": "Camera",
    "model_name": "AXIS Camera",
    "device_name": "Camera A",
    "mac": "00-40-8C-7D-81-9A",
    "ip_addr": "192.168.90.203",
    "rx_rate": 1024,
    "link_partner_port_no": 0,
    "number_of_alarm_events": 0,
    "events":[]
  }
}

```

**Section:**

Name	Data type	Unit
poe_used	Integer	0.1 watt
rx_rate	Integer	byte

## 35. Ping

**URL:** /api/ping

**Method:** POST

**Request JSON:**

```
{
  "ping": {
    "host" : "192.168.1.1",
    "version" : 4,
    "count" : 5,
    "length" : 56,
    "vlan" : 1 ,
    "interval" : 1
  }
}
```

**Note:** get action status used "Get Ping Status".

**Response JSON:**

```
{
  "response":{
    "status":"success",
    "message":""
  }
}
```

### Section:

Name	Data type	Allowed / Value	Default Value
<b>host</b>	String	<IPv4 Address> <IPv6 Address> <Host Name>	
<b>version</b>	Integer	4 : "host" is <IPv4 Address>、 <Host Name> 6 : "host" is <IPv6 Address>	4
<b>count</b>	Integer	1-60	5
<b>length</b>	Integer	2-1452 Bytes	56
<b>vlan</b>	Integer	<Vlan ID> (Note : "host" is <IPv6 Address> used.)	1





**Section:**

Name	Data type	Allowed / Value	Default Value
host	String	<IPv4 Address> <IPv6 Address> <Host Name>	
version	Integer	4 : "host" is <IPv4 Address>, <Host Name> 6 : "host" is <IPv6 Address>	4
ip_protocol	String	"ICMP", "UDP", "TCP"	ICMP
wait_time	Integer	1-60	5
max_ttl	Integer	1-255	30
count	Integer	1-10	3

### 38. Get Traceroute Status

URL: /api/get\_traceroute\_status

Method: GET

Request JSON: null

Response JSON:

```
{
  "traceroute": {
    "status": "done",
    "message": "traceroute to 192.168.1.1 (192.168.1.1), 5 hops max, 140 byte packets\n 1 * * *\n 2 * * *\n 3 * * *\n 4 * * *\n 5 * * *\n"
  }
}
```

**Section:**

Name	Data type	Allowed / Value
status	String	"start", "processing", "done"

## 39. Activate Config

**URL:** /api/activate\_config

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "config": {
      "activate_file": "startup-config"
    }
  }
}
```

**Response JSON:**

```
{
  "response": {
    "status": "success",
    "message": ""
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value	Note
activate_file	String	<File Name>		Special Filename: "default-config" "startup-config"

## 40. Get DI DO Config

**URL:** /api/get\_di\_do\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "di_do": {
      "digital_out_mode": false,
      "di_normal_mode": "High",
      "do_normal_mode": "Open"
    }
  }
}
```

## 41. Set DI DO Config

**URL:** /api/set\_di\_do\_config

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "di_do": {
      "digital_out_mode": false,
      "di_normal_mode": "High",
      "do_normal_mode": "Open"
    }
  }
}
```

**Response JSON:**

```
{
  "system": {
    "di_do": {
      "digital_out_mode": false,
      "di_normal_mode": "High",
      "do_normal_mode": "Open"
    }
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
digital_out_mode	Boolean		false
di_normal_mode	String	"Low"、"High"	High
do_normal_mode	String	"Open"、"Close"	Open

**Note:** digital\_out\_mode means Trap Event Severity Configuration->DI-1-Abnormal -> Digital Out mode.

## 42. Get DI DO Status

**URL:** /api/get\_di\_do\_status

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "di_do": {
      "di_status": "Normal",
      "do_status": "Normal"
    }
  }
}
```

## 43. Set DO Relay

**URL:** /api/set\_di\_do\_relay

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "di_do": {
      "do_relay_status": true
    }
  }
}
```

## 4.4. Get SNMP Trap Config

**URL:** /api/get\_snmp\_trap\_config

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "snmp": {
    "trap": [{
      "name": "123",
      "mode": "Disabled",
      "version": "SNMPv2c",
      "community": "public",
      "dest_addr": "0.0.0.0",
      "dest_port": 162,
      "probe_engine_id": false,
      "secu_engine_id": "80001455030040c7000000",
      "secu_name": "None"
    },
    ... ..
  ]
}
```

## 45. Add SNMP Trap Config

**URL:** /api/add\_snmp\_trap\_config

**Method:** POST

**Request JSON:**

```
{
  "snmp": {
    "trap": {
      "add": [{
        "name": "test123",
        "mode": "UDP",
        "version": "SNMP v3",
        "community": "public",
        "dest_addr": "123.123.123.123",
        "dest_port": 55,
        "secu_engine_id": "7788",
        "secu_name": "None"
      }]
    }
  }
}
```

**Response JSON:**

```
{
  "snmp": {
    "trap_mode": false,
    "trap": [{
      "name": "test123",
      "mode": "UDP",
      "version": "SNMPv3",
      "community": "public",
      "dest_addr": "123.123.123.123",
      "dest_port": 55,
      "secu_engine_id": "7788",
      "secu_name": "None"
    }]
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
<b>name</b>	String	Length is 1 to 32, the allowed content is ASCII characters from 33 to 126	
<b>mode</b>	String	"TCP" 、 "UDP" 、 "Disabled"	Disabled
<b>version</b>	String	"SNMP v1" 、 "SNMP v2c" 、 "SNMP v3"	SNMP v2c

<b>community</b>	String	Length is 0 to 255, the allowed content is ASCII characters from 33 to 126	
<b>dest_addr</b>	String	<IPv4 Address> <IPv6 Address> <Host Name>	
<b>dest_port</b>	Integer	1~65535	162
<b>secu_engine_id</b>	String	Contain an even number (in hexadecimal format) with number of digits between 10 and 64, but all zeros and all 'F's are not allowed.	
<b>secu_name</b>	String		None

## 46. Delete SNMP Trap Config

**URL:** /api/del\_snmp\_trap\_config

**Method:** POST

**Request JSON:**

```
{
  "snmp": {
    "trap": {
      "delete": [{
        "name": "test123"
      }]
    }
  }
}
```

**Response JSON:**

```
{
  "snmp": {
    "trap": []
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
<b>name</b>	String	Length is 1 to 32, the allowed content is ASCII characters from 33 to 126	



## 47. Get System Log

**URL:** /api/get\_syslog

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "syslog": {
      "log": [{
        "id": 1,
        "level": "Warning",
        "time": "2011-01-01T00:00:12+00:00",
        "message": "DI 1 change to abnormal"
      },
      ... ..
    ]
  }
}
```

**Note:** Only get the latest 100 entries.

## 48. Clear System Log

**URL:** /api/clear\_syslog

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "syslog": {
      "log": []
    }
  }
}
```

## 49. Get SFP Port Detail

**URL:** /api/get\_sfp\_port\_detail

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "ports": [{
    "id": "11",
    "sfp": {
      "connector_type": "SFP or SFP Plus - LC",
      "fiber_type": "Reserved",
      "tx_central_wavelength": "850",
      "bit_rate": "10 Gbps",
      "vendor_oui": "00-17-2d",
      "vendor_name": "Axcen Photonics",
      "vendor_pn": "AXXE-5886-05B3",
      "vendor_revision": "V1.0",
      "vendor_serial_number": "AX20240007781",
      "date_code": "200612",
      "temperature": "46.41 C",
      "vcc": "3.34 V",
      "mon1_bias": "8 mA",
      "mon2_tx_pwr": "-2.09 dBm",
      "mon3_rx_pwr": "none"
    }
  ]
}
```

**Note:** Only get the info with port inserted module.

## 50. Import Config

**URL:** /api/import\_config

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "config": {
      "import_url": "http://192.168.111.1/config.txt",
      "params": "Replace"
    }
  }
}
```

**Response JSON:**

```
{
  "response":{
    "status":"success",
    "message":""
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
import_url	String	<URL>	
params	String	"Replace" 、 " Merge"	Replace

## 51. Export Config

**URL:** /api/export\_config

**Method:** POST

**Request JSON:**

```
{
  "system": {
    "config": {
      "export_url": "http://192.168.111.1"
    }
  }
}
```

**Response JSON:**

```
{
  "response":{
    "status":"success",
    "message":""
  }
}
```

**Section:**

Name	Data type	Allowed / Value	Default Value
export_url	String	<URL>	

## 52. Get Config Action Status

**URL:** /api/get\_config\_action\_status

**Method:** GET

**Request JSON:** null

**Response JSON:**

```
{
  "system": {
    "config": {
      "config_file_status": "The device has been import config successfully."
    }
  }
}
```

### Section:

Name	Data type	Allowed / Value
config_file_status	String	Never updated
		The device has been import config successfully. Error: Failed to import config file. The device has been export config successfully. Error: Failed to export config file.

## cURL Commands

### Unified API cURL commands - SISPM1040-3248-L at FW v8.50.0032

1. curl -v --cookie "seid=123456789" -d '{"login":{"username":"admin","password":"admin"},"user\_ip":"192.168.1.77","sessid":"123456789"}' http://192.168.1.77/api/login
2. curl -v --cookie "seid=123456789" -d '{"logout":{"sessid":"123456789"}' http://192.168.1.77/api/logout
3. curl -v --cookie "seid=123456789" -d '{"system":{"warm":"Yes"}' http://192.168.1.77/api/reboot
4. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_sysinfo
5. curl -v --cookie "seid=123456789" -d '{"system":{"information":{"system\_name":"SISPM1040-3248-L"},"location":"Minnetonka","contact":"Tech supportt"}' http://192.168.1.77/api/set\_sysinfo
6. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_poe\_status
7. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_poe\_config
8. curl -v --cookie "seid=123456789" -d '{"poe":{"power\_determined\_mode":"Class","power\_management\_mode":"Reserved Power","capacitor\_detection":true},"ports":[{"id":1,"poe":{"Mode":"Enabled","Priority":"Low"},"power\_limit\_user":30,"schedule":"Disabled"}]' http://192.168.1.77/api/set\_poe\_config
9. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_poe\_auto\_reset
10. curl -v --cookie "seid=123456789" -d '{"poe":{"auto\_checking":false},"ports":[{"id":1,"poe\_auto\_reset":{"ip":"192.168.1.1","startup\_time":60,"interval\_time":30,"retry\_time":3,"failure\_reboot":false,"reboot\_time":15,"max\_reboot\_times":3}]}' http://192.168.1.77/api/set\_poe\_auto\_reset
11. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_port\_statistics
12. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_port\_config
13. curl -v --cookie "seid=123456789" -d '{"ports":[{"id":1,"speed\_mode":"Auto","flow\_control":false,"jumbo\_frames":9600,"description":"test"}]' http://192.168.1.77/api/set\_port\_config
14. curl -v --cookie "seid=123456789" -d '{"system":{"firmware":{"upgrade\_url":"http://192.168.5.46/test.dat"}' http://192.168.1.77/api/firmware\_upgrade
15. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_firmware\_upgrade\_status
16. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_account\_config
17. curl -v --cookie "seid=123456789" -d '{"account":{"status":"NEW","username":"superuser","password":"superuser","privilege\_level":15}}' http://192.168.1.77/api/set\_account\_config
18. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_dynamic\_mac\_table
19. curl -v --cookie "seid=123456789" http://192.168.1.77/api/save\_configuration
20. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_system\_time
21. curl -v --cookie "seid=123456789" -d '{"system":{"time":{"clock\_source":"Local Setting","system\_date":"2020-07-01 01:01:30","time\_zone":"5400","acronym":"","daylight":{"mode":"disable","offset":60,"start\_time":{"year":2020,"month":"Jan","week":1,"day":"Mon","date":1,"hour":1,"minute":0},"end\_time":{"year":2022,"month":"Jan","week":1,"day":"Mon","date":1,"hour":1,"minute":0}}}}' http://192.168.1.77/api/set\_system\_time
22. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_ntp\_server
23. curl -v --cookie "seid=123456789" -d '{"system":{"ntp":{"automatic":true,"interval":60,"server1":"ntp1.transition.com","server2":"ntp2.transition.com","server3":"","server4":"","server5":""}}' http://192.168.1.77/api/set\_ntp\_server
24. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_syslog\_server

25. curl -v --cookie "seid=123456789" -d '{"system":{"syslog":{"mode": true,"server\_address": "192.168.111.188","server\_port": 514}}}' http://192.168.1.77/api/set\_syslog\_server
26. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_vlan\_config
27. curl -v --cookie "seid=123456789" -d '{"vlan":{"allowed\_access\_vlans":"1","ethertype\_custom\_s\_ports":{"88a8"},"ports":[{"id": 2,"vlan":{"mode": "Access","access":{"pvid": 1,"forbidden\_vlan":{"3,5}}},"id": 3,"vlan":{"mode": "Trunk","trunk":{"pvid": 1,"egress\_tagging": "Untag Port VLAN"},"allowed\_vlan": "1","forbidden\_vlan": "3,5"}],"id": 4,"vlan":{"mode": "Hybrid","hybrid":{"pvid": 1,"port\_type": "C-Port","ingress\_filter": false,"ingress\_accept": "Tagged and Untagged"},"egress\_tagging": "Untag Port VLAN"},"allowed\_vlan": "1","forbidden\_vlan": "3-5"}]}}}' http://192.168.1.77/api/set\_vlan\_config
28. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_mac\_based\_vlan
29. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_ip\_address
30. curl -v --cookie "seid=123456789" -d '{"system":{"ip":{"interfaces":[{"vid": 1,"ipv4":{"dhcp": false,"fallback": 0,"static\_addr": "192.168.111.126","static\_mask": 24},"ipv6":{"static\_addr": "", "static\_mask": 0}}]}}}' http://192.168.1.77/api/set\_ip\_address
31. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_mirror\_config
32. curl -v --cookie "seid=123456789" -d '{"system":{"mirror":[{"destination\_port": 2,"source\_tx": "4,6-8","source\_rx": "3,5,7-8"}]}}}' http://192.168.1.77/api/set\_mirror\_config
33. curl -v --cookie "seid=123456789" -d '{"cable":{"port": 5}}' http://192.168.1.77/api/cable\_diagnostics
34. curl -v --cookie "seid=123456789" http://192.168.1.77/api/dev\_list\_table
35. curl -v --cookie "seid=123456789" -d '{"ping":{"host": "192.168.1.1","version": 4,"count": 5,"length": 56,"vlan": 1}}' http://192.168.1.77/api/ping
36. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_ping\_status
37. curl -v --cookie "seid=123456789" -d '{"traceroute":{"host": "192.168.1.1","version": 4,"ip\_protocol": "ICMP","wait\_time": 5,"max\_ttl": 5,"count": 3,"vlan": 1}}' http://192.168.1.77/api/traceroute
38. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_traceroute\_status
39. curl -v --cookie "seid=123456789" -d '{"system":{"config":{"activate\_file": "starup-config"}}}' http://192.168.1.77/api/activate\_config
40. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_di\_do\_config
41. curl -v --cookie "seid=123456789" -d '{"system":{"di\_do":{"digital\_out\_mode": false,"di\_normal\_mode": "High","di\_normal\_description": "", "di\_abnormal\_description": "", "do\_normal\_mode": "Open","auto\_recovery": false}}}' http://192.168.1.77/api/set\_di\_do\_config
42. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_di\_do\_status
43. curl -v --cookie "seid=123456789" -d '{"system":{"di\_do":{"do\_relay\_status": true}}}' http://192.168.1.77/api/set\_di\_do\_relay
44. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_snmp\_trap\_config
45. curl -v --cookie "seid=123456789" -d '{"snmp":{"trap\_mode": false,"trap":{"add":{"name": "test123","mode": "UDP","version": "SNMP v2c","community": "public","dest\_addr": "123.123.123.123","dest\_port": 55,"inform\_mode": true,"inform\_timeout": 10,"inform\_retries": 10,"probe\_engine\_id": false,"secu\_engine\_id": "", "secu\_name": "None"}}}}}' http://192.168.1.77/api/add\_snmp\_trap\_config
46. curl -v --cookie "seid=123456789" -d '{"snmp":{"trap\_mode": false,"trap":{"delete":{"name": "test123"}}}}}' http://192.168.1.77/api/del\_snmp\_trap\_config
47. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_syslog
48. curl -v --cookie "seid=123456789" http://192.168.1.77/api/clear\_syslog
49. curl -v --cookie "seid=123456789" http://192.168.1.77/api/get\_sfp\_port\_detail

50. `curl -v --cookie "seid=123456789" -d '{"system": {"config": {"export_url": "http://192.168.111.1/"}, {"export_file": "running-config"}}' http://192.168.1.77/api/export_config`
51. `curl -v --cookie "seid=123456789" -d '{"system": {"config": {"import_url": "http://192.168.111.1/test-config"}, {"import_file": "running-config"}, {"params": "Replace"}}' http://192.168.1.77/api/import_config`
52. `curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_config_action_status`

## Parameter Differences

Parameter	SISPM1040-3248-L	SISPM1040-3166-L
model_name	SISPM1040-3248-L	SISPM1040-3166-L
description	Managed Hardened PoE+ Switch, (24) 10/100/1000Base-T PoE+ ports + (4) 100/1000Base-X SFP + (4) 1G/10G SFP+	Managed Hardened Gigabit Ethernet PoE+ Switch, (16) 10/100/1000Base-T PoE+ ports + (4) 100/1000Base-X SFP/RJ-45 Combo + (2) 1G/10G SFP+
system_name	SISPM1040-3248-L	SISPM1040-3166-L

## Record of Revisions

Rev.	Date	Description
B	3/15/21	v8.50.0018: Fix API "get fw upgrade status". Fix response from API if changing IP address. Fix Backup Config issue. Add "PoE Firmware Version" data in api/get_poe_config. Provide "profile selection" when in api/get_poe_config to get PoE schedule.
C	8/23/21	Update set_port_config command on page 14. FW v8.50.0023: add Memory Usage info on System Information page; fix API Save config issue. FW v8.50.0026: fix API set port config, set port speed, change PoE mode from force mode, and MIB PoE Config Port PoE Mode issues. FW v8.50.0030: add API commands; export_config, import_config, get_config_action_status, Ping, Get Ping Status, Traceroute, Get Traceroute Status, Activate Config, Auto Power Reset, SNMP trap config, Show syslog, Clear syslog, SFP port details, Get/ Set DI normal model High/ Low, Get/ Set DO normal model Open/ Close, Get/ Set Digital out Disable/ Enable, Get DI status, Get/Set DO status, Get DO Relay Status, and Set DO Relay Open/Close. FW v8.50.0032: fix traceroute IPv6 in Web UI.

**Note:** Minimum version of firmware required: v8.40.1936.