

SISPM1040-3248-L and SISPM1040-3166-L

API User Guide

Contents

1. Login	2
2. Logout	3
3. Reboot.....	3
4. Get System Information.....	4
5. Set System Information.....	5
6. Get PoE Status.....	6
7. Get PoE Config	7
8. Set PoE Config	8
9. Get Port Statistics.....	10
10. Get Port Config.....	12
11. Set Port Config	13
12. Firmware Upgrade	15
13. Get Firmware Upgrade Status.....	15
14. Get Account Configuration	16
15. Set Account Configuration	17
16. Get MAC Table Information	18
17. Save Configuration	18
18. Get System Time	19
19. Set System Time.....	20
20. Get NTP Server	23
21. Set NTP Server.....	24
22. Get Syslog Server	25
23. Set Syslog Server	25
24. Get Vlan Config	26
25. Set Vlan Config.....	27
26. Get Mac Based Vlan Config.....	30
27. Get IP Address.....	30
28. Set IP Address.....	31
29. Get Mirror Config.....	32
30. Set Mirror Config.....	33
31. Cable Diagnostics	34
32. Device List Table.....	35
cURL Commands	37
Unified API cURL commands - SISPM1040-3248-L V1.0	37
Parameter Differences	38
Record of Revisions.....	38

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 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
```

```
}
```

```
}
```

```
},
```

```
... ..
```

```
]
```

```
}
```

10. 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": ""
    },
    ... ..
  ]
}
```

11. 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	

12. 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>	

13. Get Firmware Upgrade Status

URL: /api/get_firmware_upgrade_status

Method: GET

Request JSON: null

Response JSON:

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

14. Get Account Configuration

URL: /api/get_account_config

Method: GET

Request JSON: null

Response JSON:

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


15. 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.

16. 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
  },
  ... ..
  ]
}
```

17. Save Configuration

URL: /api/save_configuration

Method: GET

Request JSON: null

Response JSON:

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

18. 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
        }
      }
    }
  }
}
```

19. 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,
```

```

        "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
        }
    }
}
}
}
}

```

Section:

Name	Data type	Allowed / Value	Default Value
clock_source	String	"Use Local Setting" 、 "Use NTP Server"	Use Local Setting
system_date	String	"[Year]-[Month]-[Day] [Hour]:[Minute]:[Second]"	
time_zone	String	See "Time Zone Mapping Table" below	
acronym	String	0-16 alphanumeric	
mode	String	"disable"、 "recurring"、 "non-recurring"	disable
offset	Integer	1-720 Min	60
year	Integer	2000-2097	2001
month	String	"Jan"、 "Feb"、 "Mar" "Apr"、 "May" 、 "Jun" "Jul"、 "Aug"、 "Sep" "Oct"、 "Nov"、 "Dec"	Jan
week	Integer	1-5	1
day	String	"Mon"、 "Tue"、 "Wed" "Thu"、 "Fri"、 "Sat"、 "Sun"	Mon
date	Integer	1-31	1
hour	Integer	0-23	0
minute	Integer	0-59	0

Time Zone Mapping Table:

Value	Note
-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)

20. 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": ""
    }
  }
}
```

21. 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.	

22. Get Syslog Server

URL: /api/get_syslog_server

Method: GET

Request JSON: null

Response JSON:

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

23. 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

24. 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": ""
      }
    }
  ],
  ... ..
]
```

25. 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>	

26. 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"
    }
    ... ..
  ]
}
```

27. 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
        }
      }
      ... ..
    ]
  }
}
```

28. 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	

29. 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"
    }]
  }
}
```


30. 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.

31. 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>	

32. 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

cURL Commands

Unified API cURL commands - SISPM1040-3248-L V1.0

```

curl -v -d '{"login":{"username":"admin","password":"admin","user_ip":"192.168.1.77","sessid":"123456789"}}'
http://192.168.1.77/api/login

curl -v --cookie "seid=123456789" -d '{"logout":{"sessid":"123456789"}}' http://192.168.1.77/api/logout

curl -v --cookie "seid=123456789" -d '{"system":{"warm":"Yes"}}' http://192.168.1.77/api/reboot

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_sysinfo

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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_poe_status

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_poe_config

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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_port_statistics

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_port_config

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

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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_firmware_upgrade_status

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_account_config

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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_dynamic_mac_table

curl -v --cookie "seid=123456789" http://192.168.1.77/api/save_configuration

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_system_time

curl -v --cookie "seid=123456789" -d '{"system":{"time":{"clock_source":"Local Setting","system_date":"2020-07-013 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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_ntp_server

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

curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_syslog_server

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

```

```
curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_vlan_config
```

```
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
```

```
curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_mac_based_vlan
```

```
curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_ip_address
```

```
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
```

```
curl -v --cookie "seid=123456789" http://192.168.1.77/api/get_mirror_config
```

```
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
```

```
curl -v --cookie "seid=123456789" -d '{"cable": {"port": 5}}' http://192.168.1.77/api/cable_diagnostics
```

```
curl -v --cookie "seid=123456789" http://192.168.1.77/api/dev_list_table
```

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
A	11/4/20	Initial release for FW v8.40.1936 and SISPM1040-3248-L cURL commands V1.0.
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.

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