

SISPM1040-384-LRT-C

Unified 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": "success",
    "message": ""
  }
}
```

Section:

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

2. Logout

URL: /api/logout

Method: POST

Request JSON:

```
{
  "logout": {
    "sessid": "123456789"
  }
}
```

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": "SISPM1040-384-LRT-C",
      "description": "Managed Hardened PoE+ Switch, (8) 10/100/1000Base-T PoE+ Ports
+ (4) 100/1000Base-X SFP",
      "hardware_version": "v1.01",
      "mechanical_version": "v1.01",
      "firmware_version": "v7.10.2629 2020-07-03",
      "mac_addr": "00-40-c7-1c-c7-2c",
      "serial_number": "A074117AR0100002",
      "system_name": "SISPM1040-384-LRT-C",
      "location": "",
      "contact": "",
      "system_date": "2011-01-01T00:03:26+00:00",
      "uptime": "00:03:27",
      "cpu_load": "14%, 5%, 6%",
      "ram": {
        "total": "43584 KBytes",
        "free": "23260 KBytes"
      }
    }
  }
}
```

5. Set System Information

URL: /api/set_sysinfo

Method: POST

Request JSON:

```
{
  "system": {
    "information": {
      "system_name": "SISPM1040-384-LRT-C",
      "location": "Test Location",
      "contact": "Test Contact"
    }
  }
}
```

Response JSON:

```
{
  "system": {
    "information": {
      "system_name": "SISPM1040-384-LRT-C",
      "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": 40,
    "total_power_used": 19,
    "total_current_used": 36
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "pd_class": "1",
        "priority": "Low",
        "port_status": "PoE turned ON",
        "power_allocate": 40,
        "power_used": 19,
        "current_used": 36
      }
    },
    {
      "id": 2,
      "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
      }
    },
    {
      "id": 3,
      "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
      }
    },
    {
      "id": 4,
      "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",

```

```
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
    }
}, {
    "id": 5,
    "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
    }
}, {
    "id": 6,
    "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
    }
}, {
    "id": 7,
    "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "No PD detected",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
    }
}, {
    "id": 8,
    "poe": {
        "pd_class": "-",
        "priority": "Low",
        "port_status": "PoE turned OFF - PoE disabled",
        "power_allocate": 0,
        "power_used": 0,
        "current_used": 0
    }
}
}]
}
```

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": 240,
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 15,
        "schedule": "Disabled"
      }
    },
    {
      "id": 2,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
      }
    },
    {
      "id": 3,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
      }
    },
    {
      "id": 4,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
      }
    },
    {
      "id": 5,
      "poe": {
```

```

        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
    }
}, {
    "id": 6,
    "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
    }
}, {
    "id": 7,
    "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
    }
}, {
    "id": 8,
    "poe": {
        "mode": "Disabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
    }
}
}]
}

```

Section:

Name	Data type	Unit
total_power_watts	Integer	0.1 watt
power_limi_user	Integer	0.1 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": {
    "total_power_watts": 240,
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true
  },
  "ports": [
    {
      "id": 1,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 15,
        "schedule": "Disabled"
      }
    },
    {
      "id": 2,
      "poe": {
        "mode": "Enabled",
        "priority": "Low",
        "power_limit_user": 40,
        "schedule": "Disabled"
      }
    }
  ]
}
```

```
    "id": 3,
    "poe": {
      "mode": "Enabled",
      "priority": "Low",
      "power_limit_user": 40,
      "schedule": "Disabled"
    }
  }, {
    "id": 4,
    "poe": {
      "mode": "Enabled",
      "priority": "Low",
      "power_limit_user": 40,
      "schedule": "Disabled"
    }
  }, {
    "id": 5,
    "poe": {
      "mode": "Enabled",
      "priority": "Low",
      "power_limit_user": 40,
      "schedule": "Disabled"
    }
  }, {
    "id": 6,
    "poe": {
      "mode": "Enabled",
      "priority": "Low",
      "power_limit_user": 40,
      "schedule": "Disabled"
    }
  }, {
    "id": 7,
    "poe": {
      "mode": "Enabled",
      "priority": "Low",
      "power_limit_user": 40,
      "schedule": "Disabled"
    }
  }, {
    "id": 8,
    "poe": {
      "mode": "Disabled",
      "priority": "Low",
      "power_limit_user": 40,
      "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", "Force"	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,
      "link": "down",
      "media": "copper",
      "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"	Auto
flow_control	Boolean		false
jumbo_frames	Integer	1518-9600	9600
description	String	0-63 alphanumeric	

12. Firmware Upgrade

URL: /api/firmware_upgrade

Method: POST

Request JSON:

```
{
  "system": {
    "firmware": {
      "upgrade_url": "http://192.168.5.46/test.tar.gz"
    }
  }
}
```

```
{
  "system": {
    "firmware": {
      "upgrade_url": "http://192.168.5.46/test.tar.gz"
    }
  }
}
```

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": "superuser",
    "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: Note: Only modify one at a time:

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

16. Get MAC Table Information

URL: /api/get_dynamic_mac_table

Method: GET

Request JSON: null

Response JSON:

```
{
  "mac_table": [{
    "type": "Dynamic",
    "mac": "00-40-C7-29-AA-22",
    "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": 2001,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        },
        "end_time": {
          "year": 2002,
          "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": 2001,
          "month": "Jan",
          "week": 1,
          "day": "Mon",
          "date": 1,
          "hour": 1,
          "minute": 0
        },
        "end_time": {
          "year": 2002,
          "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": "ntp1.transition.com",
      "server2": "ntp2.transition.com",
      "server3": "",
      "server4": "",
      "server5": ""
    }
  }
}
```

21. Set NTP Server

URL: /api/set_ntp_server

Method: POST

Request JSON:

```
{
  "system": {
    "ntp": {
      "automatic": true,
      "interval": 60,
      "server1": "ntp1.transition.com",
      "server2": "ntp2.transition.com",
      "server3": "",
      "server4": "",
      "server5": ""
    }
  }
}
```

Response JSON:

```
{
  "system": {
    "ntp": {
      "automatic": true,
      "interval": 60,
```



```

    "server1": "ntp1.transition.com",
    "server2": "ntp2.transition.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": "192.168.111.188",
      "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": 1,
    "vlan": {
      "mode": "Access",
      "access": {
        "pvid": 1,
        "forbidden_vlan": "3,5"
      },
      "trunk": {
        "pvid": 1,
        "egress_tagging": "Untag Port VLAN",
        "allowed_vlan": "1",
        "forbidden_vlan": "3,5"
      },
      "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 Diagnostic

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	Default Value
poe_used	Integer	0.1 watt
rx_rate	Integer	byte

Record of Revisions

Rev.	Date	Description
A	8/18/20	Initial release at API v1.3 for SISPM1040-384-LRT-C FW v7.10.2629. Update the format of "Device List Table" return and add 4 commands.

Unified API cURL commands - SISPM1040-384-LRT-C v1.3

```

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

curl -v --cookie "seid=123456789" -d "{\"logout\":{\"ssid\":\"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\": \"SISPM1040-384-LRT-C\", \"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.tar.gz\"}}}" 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\":false, \"offset\":60, \"start_time\":{\"year\":2020, \"month\": \"Jan\", \"week\": 1, \"day\": \"Mon\", \"date\": 1, \"hour\": 1, \"minute\": 0}, \"end_time\":{\"year\":2021, \"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
```