

SISPM1040-582-LRT

Unified API User Guide

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1. Login

URL: /api/login

Method: POST

Request JSON:

```
{
  "login": {
    "username" : "user123",
    "password" : "user123",
    "user_ip": "192.168.1.1",
    "sessid": "375118820"
  }
}
```

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	
user_ip	String	<ip4 address>	
sessid	String	<cookie>	

2. Logout

URL: /api/logout

Method: POST

Request JSON:

```
{
  "logout": {
    "sessid": "375118820"
  }
}
```

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": "SISPM1040-582-LRT",
      "description": " Managed Hardened PoE++ Switch (8) 10/100/1000Base-T PoE++
                    Ports + (2) 100/1000Base-X SFP Slot ",
      "hardware_version": "v1.01",
      "mechanical_version": "v1.01",
      "firmware_version": "VB7.20.0039 2020-12-29",
      "mac_addr": "00-40-c7-a1-cd-25",
      "serial_number": "A054118AR3800001",
      "system_name": "SISPM1040-582-LRT",
      "location": "",
      "contact": "",
      "system_date": "2017-01-01T01:44:55+09:00",
      "uptime": "17:56:09",
      "cpu_load": "51%, 25%, 17%",
      "ram": {
        "total": "72008 KBytes",
        "free": "49098 KBytes"
      },
      "temperature_1": 50,
      "temperature_2": 64
    }
  }
}
```

5. Set System Information

URL: /api/set_sysinfo

Method: POST

Request JSON:

```
{
  "system": {
    "information": {
      "system_name": "SISPM1040-582-LRT",
      "location": "Test Location",
      "contact": "Test Contact"
    }
  }
}
```

Response JSON:

```
{
  "system": {
    "information": {
      "system_name": "SISPM1040-582-LRT",
      "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": {
    "poe_firmware_version": "104-100",
    "total_power_watts": 2000,
    "power_determined_mode": "Class",
    "power_management_mode": "Reserved Power",
    "capacitor_detection": true,
    "profile_list": [
      {
        "id": 1,
        "name": "profile1"
      },
      ... ..
    ]
  },
  "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": {
    "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	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,
      "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"	Auto

		"100Mbps HDX" "100Mbps FDX" "1Gbps FDX"	
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.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" : "admin",
    "password" : "admin",
    "privilege_level" : 15
  }
}
```

Response JSON:

```
{
  "account": [{
    "username" : "admin",
    "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": "00-11-22-33-44-55-66",
    "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": "Use Local Settings",
      "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	Reference "Time Zone Mapping Table"	

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.transition 1.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.	

srver3	String	Provide the IPv4 or IPv6 address of a NTP server.	
srver4	String	Provide the IPv4 or IPv6 address of a NTP server.	
srver5	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": 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": 2
  }
}
```

Response JSON:

```
{
  "ports": {
    "id": 2,
    "cable_diagnostic": {
      "link": "1G",
      "result": "OK",
      "length": "24"
    }
  }
}
```

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

33. Get ACL Config

URL: /api/get_acl_config

Method: GET

Request JSON: null

Response JSON:

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-12",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 5146,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
      },
      "frame_type": "any"
    }, {
      "id": 2,
      "ingress_port": "1",
      "policy": {
```

```
        "filter": "Specific",
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": true,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": true,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Enabled",
        "filter": "Specific",
        "id": 1,
        "tag_priority": "4-7"
    },
    "frame_type": "ethernet",
    "ethernet": {
        "smac_filter": "Specific",
        "smac": "00-00-00-00-00-01",
        "smac_mask": "ffff",
        "dmac_filter": "Specific",
        "dmac": "00-00-00-00-00-02",
        "dmac_mask": "2",
        "ether_type_filter": "Specific",
        "ether_type": "ffff"
    }
}, {
    "id": 3,
    "ingress_port": "2-3",
    "policy": {
        "filter": "Any",
        "value": 0,
```

```
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 10,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Enabled",
        "filter": "Specific",
        "id": 1,
        "tag_priority": "0"
    },
    "frame_type": "arp",
    "arp": {
        "smac_filter": "Specific",
        "smac": "00-00-00-00-00-01",
        "dmac_filter": "BC",
        "parameters": {
            "type": "Other",
            "op": "Any",
            "sender": {
                "filter": "Network",
                "address": "0.0.0.0",
                "mask": "255.255.255.0"
            },
            "target": {
                "filter": "Network",
                "address": "0.0.0.0",
                "mask": "255.255.255.0"
            }
        }
    },
    },
```

```
        "arp_smac_match": "Any",
        "rarp_dmac_match": "Any",
        "arp_ip_eth_len": "Any",
        "arp_ip": "Any",
        "arp_eth": "Any"
    }, {
        "id": 4,
        "ingress_port": "10-12",
        "policy": {
            "filter": "Any",
            "value": 0,
            "bitmask": "FF"
        },
        "action": {
            "mode": "Permit",
            "rate_limiter": 0,
            "evc_policer": false,
            "evc_policer_id": 1,
            "mirror": false,
            "logging": false,
            "shutdown": false,
            "counter": 0,
            "deny_port_redirect": "0",
            "filter_port": "1-12"
        },
        "vlan": {
            "tagged": "Any",
            "filter": "Any",
            "id": 0,
            "tag_priority": "Any"
        },
        "frame_type": "ipv4",
        "ipv4": {
            "dmac_filter": "MC",
            "protocol_filter": "ICMP",
            "protocol_value": 1,
            "ip_ttl": "Non-zero",
            "ip_fragment": "No",
```

```
        "ip_option": "Any",
        "sip_filter": "Network",
        "sip_address": "0.0.0.0",
        "sip_mask": "255.255.255.0",
        "dip_filter": "Network",
        "dip_address": "0.0.0.0",
        "dip_mask": "255.255.255.0",
        "icmp": {
            "type_filter": 1,
            "type_value": 255,
            "code_filter": 1,
            "code_value": 255
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0,
            "fin": 0,
            "syn": 0,
            "rst": 0,
            "psh": 0,
            "ack": 0,
            "urg": 0
        }
    }, {
        "id": 5,
        "ingress_port": "1-12",
```



```
"policy": {
  "filter": "Any",
  "value": 0,
  "bitmask": "FF"
},
"action": {
  "mode": "Permit",
  "rate_limiter": 0,
  "evc_policer": false,
  "evc_policer_id": 1,
  "mirror": false,
  "logging": false,
  "shutdown": false,
  "counter": 0,
  "deny_port_redirect": "0",
  "filter_port": "1-12"
},
"vlan": {
  "tagged": "Any",
  "filter": "Any",
  "id": 0,
  "tag_priority": "Any"
},
"frame_type": "ipv4",
"ipv4": {
  "dmac_filter": "Any",
  "protocol_filter": "UDP",
  "protocol_value": 2,
  "ip_ttl": "Any",
  "ip_fragment": "Any",
  "ip_option": "Any",
  "sip_filter": "Any",
  "sip_address": "0.0.0.0",
  "sip_mask": "0.0.0.0",
  "dip_filter": "Any",
  "dip_address": "0.0.0.0",
  "dip_mask": "0.0.0.0",
  "icmp": {
    "type_filter": 0,
```

```
        "type_value": 0,
        "code_filter": 0,
        "code_value": 0
    },
    "udp": {
        "sport_filter": 2,
        "sport_start": 1,
        "sport_end": 22,
        "dport_filter": 2,
        "dport_start": 2,
        "dport_end": 33
    },
    "tcp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
    }
}, {
    "id": 6,
    "ingress_port": "1-12",
    "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
```

```
    "evc_policer_id": 1,
    "mirror": false,
    "logging": false,
    "shutdown": false,
    "counter": 0,
    "deny_port_redirect": "0",
    "filter_port": "1-12"
  },
  "vlan": {
    "tagged": "Any",
    "filter": "Any",
    "id": 0,
    "tag_priority": "Any"
  },
  "frame_type": "ipv4",
  "ipv4": {
    "dmac_filter": "Any",
    "protocol_filter": "TCP",
    "protocol_value": 2,
    "ip_ttl": "Any",
    "ip_fragment": "Any",
    "ip_option": "Any",
    "sip_filter": "Any",
    "sip_address": "0.0.0.0",
    "sip_mask": "0.0.0.0",
    "dip_filter": "Any",
    "dip_address": "0.0.0.0",
    "dip_mask": "0.0.0.0",
    "icmp": {
      "type_filter": 0,
      "type_value": 0,
      "code_filter": 0,
      "code_value": 0
    },
    "udp": {
      "sport_filter": 0,
      "sport_start": 0,
      "sport_end": 0,
      "dport_filter": 0,
```

```
        "dport_start": 0,
        "dport_end": 0
    },
    "tcp": {
        "sport_filter": 2,
        "sport_start": 1,
        "sport_end": 22,
        "dport_filter": 2,
        "dport_start": 2,
        "dport_end": 33,
        "fin": 0,
        "syn": 2,
        "rst": 2,
        "psh": 2,
        "ack": 1,
        "urg": 2
    }
}
}, {
    "id": 7,
    "ingress_port": "1-12",
    "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
```

```
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
    },
    "frame_type": "ipv4",
    "ipv4": {
        "dmac_filter": "Any",
        "protocol_filter": "Specific",
        "protocol_value": 2,
        "ip_ttl": "Any",
        "ip_fragment": "Any",
        "ip_option": "Any",
        "sip_filter": "Any",
        "sip_address": "0.0.0.0",
        "sip_mask": "0.0.0.0",
        "dip_filter": "Any",
        "dip_address": "0.0.0.0",
        "dip_mask": "0.0.0.0",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 0,
            "code_value": 0
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
```

```
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
    }
}
}, {
    "id": 8,
    "ingress_port": "1-12",
    "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
    },
    "frame_type": "ipv6",
    "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "ICMP",
```

```
        "next_header_value": 58,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFFF",
        "hop_limit": "1",
        "icmp": {
            "type_filter": 1,
            "type_value": 255,
            "code_filter": 1,
            "code_value": 255
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0,
            "fin": 0,
            "syn": 0,
            "rst": 0,
            "psh": 0,
            "ack": 0,
            "urg": 0
        }
    }, {
        "id": 9,
        "ingress_port": "1-12",
        "policy": {
            "filter": "Any",
```

```
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
    },
    "frame_type": "ipv6",
    "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "UDP",
        "next_header_value": 17,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFFF",
        "hop_limit": "Any",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 0,
            "code_value": 0
        },
        "udp": {
            "sport_filter": 1,
            "sport_start": 33,
```



```
        "sport_end": 33,
        "dport_filter": 2,
        "dport_start": 2,
        "dport_end": 33
    },
    "tcp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
    }
}
}, {
    "id": 10,
    "ingress_port": "1-12",
    "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
    },
    "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
```

```
    },
    "vlan": {
      "tagged": "Any",
      "filter": "Any",
      "id": 0,
      "tag_priority": "Any"
    },
    "frame_type": "ipv6",
    "ipv6": {
      "dmac_filter": "Any",
      "next_header_filter": "TCP",
      "next_header_value": 6,
      "sip_filter": "Any",
      "sip_address": "",
      "sip_bitmask": "0",
      "hop_limit": "Any",
      "icmp": {
        "type_filter": 0,
        "type_value": 0,
        "code_filter": 0,
        "code_value": 0
      },
      "udp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0
      },
      "tcp": {
        "sport_filter": 1,
        "sport_start": 2,
        "sport_end": 2,
        "dport_filter": 2,
        "dport_start": 2,
        "dport_end": 33,
        "fin": 1,
        "syn": 2,
```

```
        "rst": 2,
        "psh": 2,
        "ack": 2,
        "urg": 2
      }
    }
  }, {
    "id": 11,
    "ingress_port": "1-12",
    "policy": {
      "filter": "Any",
      "value": 0,
      "bitmask": "FF"
    },
    "action": {
      "mode": "Permit",
      "rate_limiter": 0,
      "evc_policer": false,
      "evc_policer_id": 1,
      "mirror": false,
      "logging": false,
      "shutdown": false,
      "counter": 0,
      "deny_port_redirect": "0",
      "filter_port": "1-12"
    },
    "vlan": {
      "tagged": "Any",
      "filter": "Any",
      "id": 0,
      "tag_priority": "Any"
    },
    "frame_type": "ipv6",
    "ipv6": {
      "dmac_filter": "Any",
      "next_header_filter": "Specific",
      "next_header_value": 255,
      "sip_filter": "Any",
      "sip_address": "",
```

```
        "sip_bitmask": "0",
        "hop_limit": "Any",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 0,
            "code_value": 0
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0,
            "fin": 0,
            "syn": 0,
            "rst": 0,
            "psh": 0,
            "ack": 0,
            "urg": 0
        }
    }, {
        "id": 12,
        "ingress_port": "1-8",
        "policy": {
            "filter": "Any",
            "value": 0,
            "bitmask": "FF"
        }
    },
```

```
"action": {
  "mode": "Filter",
  "rate_limiter": 0,
  "evc_policer": false,
  "evc_policer_id": 1,
  "mirror": false,
  "logging": false,
  "shutdown": false,
  "counter": 0,
  "deny_port_redirect": "0",
  "filter_port": "1-12"
},
"vlan": {
  "tagged": "Any",
  "filter": "Any",
  "id": 0,
  "tag_priority": "5"
},
"frame_type": "ipv6",
"ipv6": {
  "dmac_filter": "Any",
  "next_header_filter": "Any",
  "next_header_value": 0,
  "sip_filter": "Any",
  "sip_address": "",
  "sip_bitmask": "0",
  "hop_limit": "1",
  "icmp": {
    "type_filter": 0,
    "type_value": 0,
    "code_filter": 0,
    "code_value": 0
  },
  "udp": {
    "sport_filter": 0,
    "sport_start": 0,
    "sport_end": 0,
    "dport_filter": 0,
    "dport_start": 0,
```

```
        "dport_end": 0
      },
      "tcp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
      }
    }
  }
}
```

34. Add ACL Config

URL: /api/add_acl_config

Method: POST

Request JSON:

Frame_type : any

```
{
  "acl": {
    "add": [{
      "any": {
        "ingress_port": "1-5",
        "policy": {
          "filter": "Any",
          "value": 0,
          "bitmask": "FF"
        },
        "action": {
          "mode": "Permit",
          "rate_limiter": 0,
          "evc_policer": true,
          "evc_policer_id": 1,
          "mirror": false,
          "logging": true,
          "shutdown": false,
          "deny_port_redirect": "0",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "Any"
        },
        "frame_type": "any"
      }
    ]
  }
}
```

Frame_type : ethernet

```
{
  "acl": {
    "add": [{
      "ethernet": {
        "ingress_port": "1-5",
        "action": {
          "mode": "filter",
          "deny_port_redirect": "6-10",
          "filter_port": "9-10",
          "logging": true,
          "mirror": true,
          "rate_limiter": 0,
          "evc_policer": false,
          "evc_policer_id": 1,
          "shutdown": false
        },
        "ethernet": {
          "dmac": "00-00-00-00-00-02",
          "dmac_filter": "Specific",
          "ether_type": "ffff",
          "ether_type_filter": "Any",
          "smac": "00-00-00-00-00-01",
          "smac_filter": "Specific"
        },
        "frame_type": "ethernet",
        "policy": {
          "bitmask": "7F",
          "filter": "Any",
          "value": 0
        },
        "vlan": {
          "filter": "Specific",
          "vid": 20,
          "tag_priority": "Any",
          "tagged": "Any"
        }
      }
    ]
  }
}
```



```
}  
}
```

Frame_type : arp

```
{  
  "acl": {  
    "add": [{  
      "arp": {  
        "ingress_port": "1-4",  
        "policy": {  
          "filter": "Any",  
          "value": 0,  
          "bitmask": "7F"  
        },  
        "action": {  
          "mode": "Permit",  
          "rate_limiter": 0,  
          "evc_policer": false,  
          "evc_policer_id": 1,  
          "mirror": false,  
          "logging": false,  
          "shutdown": false,  
          "deny_port_redirect": "0",  
          "filter_port": "1-12"  
        },  
        "vlan": {  
          "tagged": "Any",  
          "filter": "Any",  
          "vid": 0,  
          "tag_priority": "Any"  
        },  
        "frame_type": "arp",  
        "arp": {  
          "smac_filter": "Any",  
          "smac": "",  
          "dmac_filter": "Any",  
          "parameters": {  
            "type": "ARP",  
            "op": "Any",
```

```

        "sender": {
            "filter": "Host",
            "address": "0.0.0.0",
            "mask": ""
        },
        "target": {
            "filter": "Network",
            "address": "0.0.0.0",
            "mask": "255.255.255.0"
        }
    },
    "arp_smac_match": "Any",
    "rarp_dmac_match": "Any",
    "arp_ip_eth_len": "Any",
    "arp_ip": "Any",
    "arp_eth": "Any"
}
}}
}

```

Frame_type : ipv4(Any)

```

{
    "acl": {
        "add": [{
            "ipv4": {
                "ingress_port": "1-8",
                "policy": {
                    "filter": "Any",
                    "value": "0",
                    "bitmask": "7F"
                },
            },
            "action": {
                "mode": "Filter",
                "rate_limiter": 0,
                "evc_policer": false,
                "evc_policer_id": 1,
                "mirror": false,
                "logging": false,
            }
        }
    ]
}

```

```
"shutdown": false,  
    "deny_port_redirect": "",  
    "filter_port": "1-12"  
},  
    "vlan": {  
        "tagged": "Any",  
        "filter": "Any",  
        "vid": 0,  
        "tag_priority": "5"  
    },  
    "frame_type": "ipv4",  
    "ipv4": {  
        "dmac_filter": "Any",  
        "protocol_filter": "Any",  
        "ip_ttl": "Zero",  
        "ip_fragment": "Yes",  
        "ip_option": "No",  
        "sip_filter": "Any",  
        "sip": "0.0.0.0",  
        "sip_mask": "0.0.0.0",  
        "dip_filter": "Any",  
        "dip": "0.0.0.0",  
        "dip_mask": "255.255.255.0"  
    }  
}  
  
}}  
  
}
```

Frame_type : ipv4(ICMP)

```
{
  "acl": {
    "add": [{
      "ipv4": {
        "ingress_port": "1-10",
        "policy": {
          "filter": "Any",
          "value": 0,
          "bitmask": "7F"
        }
      }
    ]
  }
}
```

```
    "action": {
      "mode": "Permit",
      "rate_limiter": 0,
      "mirror": false,
      "logging": false,
      "shutdown": false,
      "deny_port_redirect": "",
      "filter_port": "1-12"
    },
    "vlan": {
      "tagged": "Any",
      "filter": "Any",
      "vid": 0,
      "tag_priority": "Any"
    },
    "frame_type": "ipv4",
    "ipv4": {
      "dmac_filter": "Any",
      "protocol_filter": "ICMP",
      "protocol_value": 1,
      "ip_ttl": "Any",
      "ip_fragment": "Any",
      "ip_option": "Any",
      "sip_filter": "Host",
      "sip": "192.168.1.3",
      "sip_mask": "255.255.255.255",
      "dip_filter": "Host",
      "dip": "192.168.1.4",
      "dip_mask": "255.255.255.255",
      "icmp": {
        "type_filter": 0,
        "type": 1,
        "code_filter": 1,
        "code": 2
      }
    }
  }
}
```

```
}
```

Frame_type : ipv4(UDP)

```
{
  "acl": {
    "add": [{
      "ipv4": {
        "ingress_port": "1-10",
        "policy": {
          "filter": "Any",
          "value": 0,
          "bitmask": "7F"
        },
        "action": {
          "mode": "Permit",
          "rate_limiter": 0,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "Any"
        },
        "frame_type": "ipv4",
        "ipv4": {
          "dmac_filter": "Any",
          "protocol_filter": "UDP",
          "protocol_value": 1,
          "ip_ttl": "Any",
          "ip_fragment": "Any",
          "ip_option": "Any",
          "sip_filter": "Host",
          "sip": "192.168.1.3",
          "sip_mask": "255.255.255.255",
          "dip_filter": "Network",
```

```

        "dip": "192.168.1.4",
        "dip_mask": "255.255.255.0",
        "udp": {
            "sport_filter": 1,
            "sport_start": 10,
            "sport_end": 65535,
            "dport_filter": 2,
            "dport_start": 100,
            "dport_end": 65535
        }
    }
}

```

Frame_type : ipv4(TCP)

```

{
    "acl": {
        "add": [{
            "ipv4": {
                "ingress_port": "1-10",
                "policy": {
                    "filter": "Any",
                    "value": 0,
                    "bitmask": "7F"
                },
                "action": {
                    "mode": "Permit",
                    "rate_limiter": 0,
                    "mirror": false,
                    "logging": false,
                    "shutdown": false,
                    "deny_port_redirect": "",
                    "filter_port": "1-12"
                },
                "vlan": {
                    "tagged": "Any",
                    "filter": "Any",
                    "vid": 0,

```

```
        "tag_priority": "Any"
      },
      "frame_type": "ipv4",
      "ipv4": {
        "dmac_filter": "Any",
        "protocol_filter": "TCP",
        "protocol_value": 1,
        "ip_ttl": "Any",
        "ip_fragment": "Any",
        "ip_option": "Any",
        "sip_filter": "Host",
        "sip": "192.168.1.3",
        "sip_mask": "255.255.255.255",
        "dip_filter": "Network",
        "dip": "192.168.1.4",
        "dip_mask": "255.255.255.0",
        "tcp": {
          "sport_filter": 1,
          "sport_start": 10,
          "sport_end": 65535,
          "dport_filter": 2,
          "dport_start": 100,
          "dport_end": 65535,
          "fin": 0,
          "syn": 1,
          "rst": 2,
          "psh": 2,
          "ack": 1,
          "urg": 0
        }
      }
    }
  }
}
```

Frame_type : ipv4(Specific)

```
{
  "acl": {
    "add": [{
      "ipv4": {
        "ingress_port": "1-10",
        "policy": {
          "filter": "Any",
          "value": 0,
          "bitmask": "7F"
        },
        "action": {
          "mode": "Permit",
          "rate_limiter": 0,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "Any"
        },
        "frame_type": "ipv4",
        "ipv4": {
          "dmac_filter": "Any",
          "protocol_filter": "Specific",
          "protocol_value": 55,
          "ip_ttl": "Any",
          "ip_fragment": "Any",
          "ip_option": "Any",
          "sip_filter": "Host",
          "sip": "192.168.1.3",
          "sip_mask": "255.255.255.255",
          "dip_filter": "Network",
          "dip": "192.168.1.4",
```



```

        "dip_mask": "255.255.255.0"
      }
    }
  }}
}

```

Frame_type : ipv6(Any)

```

{
  "acl": {
    "add": [{
      "ipv6": {
        "ingress_port": "1-8",
        "policy": {
          "filter": "Any",
          "value": "0",
          "bitmask": "7F"
        },
        "action": {
          "mode": "Filter",
          "rate_limiter": 0,
          "evc_policer": false,
          "evc_policer_id": 1,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "5"
        },
        "frame_type": "ipv6",
        "ipv6": {
          "dmac_filter": "Any",
          "next_header_filter": "Any",
          "next_header_value": 1,

```

```

        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": 1
      }
    }
  }}
}

```

Frame_type : ipv6(ICMP)

```

{
  "acl": {
    "add": [{
      "ipv6": {
        "ingress_port": "1-8",
        "policy": {
          "filter": "Any",
          "value": "0",
          "bitmask": "7F"
        },
        "action": {
          "mode": "Filter",
          "rate_limiter": 0,
          "evc_policer": false,
          "evc_policer_id": 1,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "5"
        },
        "frame_type": "ipv6",
        "ipv6": {

```

```

        "dmac_filter": "Any",
        "next_header_filter": "Any",
        "next_header_value": 1,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": 1
      }
    }
  }
}

```

Frame_type : ipv6(UDP)

```

{
  "acl": {
    "add": [{
      "ipv6": {
        "ingress_port": "1-8",
        "policy": {
          "filter": "Any",
          "value": "0",
          "bitmask": "7F"
        },
        "action": {
          "mode": "Filter",
          "rate_limiter": 0,
          "evc_policer": false,
          "evc_policer_id": 1,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "5"
        }
      }
    ]
  }
}

```



```
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "deny_port_redirect": "",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "vid": 0,
        "tag_priority": "5"
    },
    "frame_type": "ipv6",
    "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "TCP",
        "next_header_value": 1,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": 1,
        "tcp": {
            "sport_filter": 1,
            "sport_start": 10,
            "sport_end": 65535,
            "dport_filter": 2,
            "dport_start": 100,
            "dport_end": 65535,
            "fin": 0,
            "syn": 1,
            "rst": 2,
            "psh": 2,
            "ack": 1,
            "urg": 0
        }
    }
}
```

```
}
```

Frame_type : ipv6(Specific)

```
{
  "acl": {
    "add": [{
      "ipv6": {
        "ingress_port": "1-8",
        "policy": {
          "filter": "Any",
          "value": "0",
          "bitmask": "7F"
        },
        "action": {
          "mode": "Filter",
          "rate_limiter": 0,
          "evc_policer": false,
          "evc_policer_id": 1,
          "mirror": false,
          "logging": false,
          "shutdown": false,
          "deny_port_redirect": "",
          "filter_port": "1-12"
        },
        "vlan": {
          "tagged": "Any",
          "filter": "Any",
          "vid": 0,
          "tag_priority": "5"
        },
        "frame_type": "ipv6",
        "ipv6": {
          "dmac_filter": "Any",
          "next_header_filter": "Specific",
          "next_header_value": 55,
          "sip_filter": "Specific",
          "sip_address": "::",
          "sip_bitmask": "FFFFFFF2",
          "hop_limit": 1
        }
      }
    ]
  }
}
```

```
}  
  }  
}  
}
```

Response JSON:**Frame_type : any**

```
{  
  "acl": {  
    "ace": [{  
      "id": 1,  
      "ingress_port": "1-5",  
      "policy": {  
        "filter": "Any",  
        "value": 0,  
        "bitmask": "FF"  
      },  
      "action": {  
        "mode": "Permit",  
        "rate_limiter": 0,  
        "evc_policer": true,  
        "evc_policer_id": 1,  
        "mirror": false,  
        "logging": true,  
        "shutdown": false,  
        "counter": 0,  
        "deny_port_redirect": "0",  
        "filter_port": "1-12"  
      },  
      "vlan": {  
        "tagged": "Any",  
        "filter": "Any",  
        "id": 0,  
        "tag_priority": "Any"  
      },  
      "frame_type": "any"  
    }  
  ]  
}
```

Frame_type : ethernet

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-5",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": true,
        "logging": true,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "9-10"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Specific",
        "id": 20,
        "tag_priority": "Any"
      },
      "frame_type": "ethernet",
      "ethernet": {
        "smac_filter": "Specific",
        "smac": "00-00-00-00-00-01",
        "smac_mask": "0",
        "dmac_filter": "Specific",
        "dmac": "00-00-00-00-00-02",
        "dmac_mask": "0",
        "ether_type_filter": "Any",
        "ether_type": "0"
      }
    ]
  }
}
```



```

    }
  }}
}

```

Frame_type : arp

```

{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-4",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
      },
      "frame_type": "arp",
      "arp": {
        "smac_filter": "Any",
        "smac": "00-00-00-00-00-01",
        "dmac_filter": "Any",
        "parameters": {

```

```

        "type": "ARP",
        "op": "Any",
        "sender": {
            "filter": "Host",
            "address": "0.0.0.0",
            "mask": "255.255.255.255"
        },
        "target": {
            "filter": "Network",
            "address": "0.0.0.0",
            "mask": "255.255.255.0"
        }
    },
    "arp_smac_match": "Any",
    "rarp_dmac_match": "Any",
    "arp_ip_eth_len": "Any",
    "arp_ip": "Any",
    "arp_eth": "Any"
}
}
}

```

Frame_type : ipv4(Any)

```

{
    "acl": {
        "ace": [{
            "id": 1,
            "ingress_port": "1-8",
            "policy": {
                "filter": "Any",
                "value": 0,
                "bitmask": "FF"
            },
            "action": {
                "mode": "Filter",
                "rate_limiter": 0,
                "evc_policer": false,
                "evc_policer_id": 1,
                "mirror": false,

```

```
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
    },
    "frame_type": "ipv4",
    "ipv4": {
        "dmac_filter": "Any",
        "protocol_filter": "Any",
        "protocol_value": 0,
        "ip_ttl": "Zero",
        "ip_fragment": "Yes",
        "ip_option": "No",
        "sip_filter": "Any",
        "sip_address": "0.0.0.0",
        "sip_mask": "0.0.0.0",
        "dip_filter": "Any",
        "dip_address": "0.0.0.0",
        "dip_mask": "0.0.0.0",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 0,
            "code_value": 0
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        }
    }
}
```

```
    },  
    "tcp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0,  
        "fin": 0,  
        "syn": 0,  
        "rst": 0,  
        "psh": 0,  
        "ack": 0,  
        "urg": 0  
    }  
}  
  
}]  
  
}
```

Frame_type : ipv4(ICMP)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-10",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,

```

```
        "deny_port_redirect": "0",
        "filter_port": "1-12"
    },
    "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
    },
    "frame_type": "ipv4",
    "ipv4": {
        "dmac_filter": "Any",
        "protocol_filter": "ICMP",
        "protocol_value": 2,
        "ip_ttl": "Any",
        "ip_fragment": "Any",
        "ip_option": "Any",
        "sip_filter": "Host",
        "sip_address": "192.168.1.3",
        "sip_mask": "255.255.255.255",
        "dip_filter": "Host",
        "dip_address": "192.168.1.4",
        "dip_mask": "255.255.255.255",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 1,
            "code_value": 2
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 0,
```

```
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0,  
        "fin": 0,  
        "syn": 0,  
        "rst": 0,  
        "psh": 0,  
        "ack": 0,  
        "urg": 0  
    }  
}  
}}  
}
```

Frame_type : ipv4(UDP)

```
{  
  "acl": {  
    "ace": [{  
      "id": 1,  
      "ingress_port": "1-10",  
      "policy": {  
        "filter": "Any",  
        "value": 0,  
        "bitmask": "FF"  
      },  
      "action": {  
        "mode": "Permit",  
        "rate_limiter": 0,  
        "evc_policer": false,  
        "evc_policer_id": 1,  
        "mirror": false,  
        "logging": false,  
        "shutdown": false,  
        "counter": 0,  
        "deny_port_redirect": "0",  
        "filter_port": "1-12"  
      },  
    },  
  ],  
}
```

```
"vlan": {
  "tagged": "Any",
  "filter": "Any",
  "id": 0,
  "tag_priority": "Any"
},
"frame_type": "ipv4",
"ipv4": {
  "dmac_filter": "Any",
  "protocol_filter": "UDP",
  "protocol_value": 2,
  "ip_ttl": "Any",
  "ip_fragment": "Any",
  "ip_option": "Any",
  "sip_filter": "Host",
  "sip_address": "192.168.1.3",
  "sip_mask": "255.255.255.255",
  "dip_filter": "Network",
  "dip_address": "192.168.1.4",
  "dip_mask": "255.255.255.0",
  "icmp": {
    "type_filter": 0,
    "type_value": 0,
    "code_filter": 0,
    "code_value": 0
  },
  "udp": {
    "sport_filter": 1,
    "sport_start": 10,
    "sport_end": 10,
    "dport_filter": 2,
    "dport_start": 100,
    "dport_end": 65535
  },
  "tcp": {
    "sport_filter": 0,
    "sport_start": 0,
    "sport_end": 0,
    "dport_filter": 0,
```

```
        "dport_start": 0,
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
      }
    }
  }}
}
```

Frame_type : ipv4(TCP)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-10",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",

```



```
        "id": 0,
        "tag_priority": "Any"
    },
    "frame_type": "ipv4",
    "ipv4": {
        "dmac_filter": "Any",
        "protocol_filter": "TCP",
        "protocol_value": 2,
        "ip_ttl": "Any",
        "ip_fragment": "Any",
        "ip_option": "Any",
        "sip_filter": "Host",
        "sip_address": "192.168.1.3",
        "sip_mask": "255.255.255.255",
        "dip_filter": "Network",
        "dip_address": "192.168.1.4",
        "dip_mask": "255.255.255.0",
        "icmp": {
            "type_filter": 0,
            "type_value": 0,
            "code_filter": 0,
            "code_value": 0
        },
        "udp": {
            "sport_filter": 0,
            "sport_start": 0,
            "sport_end": 0,
            "dport_filter": 0,
            "dport_start": 0,
            "dport_end": 0
        },
        "tcp": {
            "sport_filter": 1,
            "sport_start": 10,
            "sport_end": 10,
            "dport_filter": 2,
            "dport_start": 100,
            "dport_end": 65535,
            "fin": 0,
```

```
        "syn": 1,  
        "rst": 2,  
        "psh": 2,  
        "ack": 1,  
        "urg": 0  
      }  
    }  
  }  
}
```

Frame_type : ipv4(Specific)

```
{  
  "acl": {  
    "ace": [{  
      "id": 1,  
      "ingress_port": "1-10",  
      "policy": {  
        "filter": "Any",  
        "value": 0,  
        "bitmask": "FF"  
      },  
      "action": {  
        "mode": "Permit",  
        "rate_limiter": 0,  
        "evc_policer": false,  
        "evc_policer_id": 1,  
        "mirror": false,  
        "logging": false,  
        "shutdown": false,  
        "counter": 0,  
        "deny_port_redirect": "0",  
        "filter_port": "1-12"  
      },  
      "vlan": {  
        "tagged": "Any",  
        "filter": "Any",  
        "id": 0,  
        "tag_priority": "Any"  
      },  
    }  
  ]  
}
```

```
"frame_type": "ipv4",
"ipv4": {
  "dmac_filter": "Any",
  "protocol_filter": "Specific",
  "protocol_value": 55,,
  "ip_ttl": "Any",
  "ip_fragment": "Any",
  "ip_option": "Any",
  "sip_filter": "Host",
  "sip_address": "192.168.1.3",
  "sip_mask": "255.255.255.255",
  "dip_filter": "Network",
  "dip_address": "192.168.1.4",
  "dip_mask": "255.255.255.0",
  "icmp": {
    "type_filter": 0,
    "type_value": 0,
    "code_filter": 0,
    "code_value": 0
  },
  "udp": {
    "sport_filter": 0,
    "sport_start": 0,
    "sport_end": 0,
    "dport_filter": 0,
    "dport_start": 0,
    "dport_end": 0
  },
  "tcp": {
    "sport_filter": 0,
    "sport_start": 0,
    "sport_end": 0,
    "dport_filter": 0,
    "dport_start": 0,
    "dport_end": 0,
    "fin": 0,
    "syn": 0,
    "rst": 0,
    "psh": 0,
```

```

        "ack": 0,
        "urg": 0
      }
    }
  }}
}

```

Frame_type : ipv6(Any)

```

{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-8",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
      },
      "frame_type": "ipv6",
      "ipv6": {
        "dmac_filter": "Any",

```

```
    "next_header_filter": "Any",
    "next_header_value": 0,
    "sip_filter": "Specific",
    "sip_address": "::",
    "sip_bitmask": "FFFFFFF2",
    "hop_limit": "1",
    "icmp": {
        "type_filter": 0,
        "type_value": 0,
        "code_filter": 0,
        "code_value": 0
    },
    "udp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0
    },
    "tcp": {
        "sport_filter": 0,
        "sport_start": 0,
        "sport_end": 0,
        "dport_filter": 0,
        "dport_start": 0,
        "dport_end": 0,
        "fin": 0,
        "syn": 0,
        "rst": 0,
        "psh": 0,
        "ack": 0,
        "urg": 0
    }
  }
}
}
```

Frame_type : ipv6(ICMP)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-8",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
      },
      "frame_type": "ipv6",
      "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "ICMP",
        "next_header_value": 58,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": "1",
        "icmp": {
```

```
        "type_filter": 1,  
        "type_value": 1,  
        "code_filter": 1,  
        "code_value": 2  
    },  
    "udp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0  
    },  
    "tcp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0,  
        "fin": 0,  
        "syn": 0,  
        "rst": 0,  
        "psh": 0,  
        "ack": 0,  
        "urg": 0  
    }  
}  
}  
}]  
}
```

Frame_type : ipv6(UDP)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-8",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
      },
      "frame_type": "ipv6",
      "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "UDP",
        "next_header_value": 17,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": "1",
        "icmp": {
```



```
        "type_filter": 0,  
        "type_value": 0,  
        "code_filter": 0,  
        "code_value": 0  
    },  
    "udp": {  
        "sport_filter": 1,  
        "sport_start": 10,  
        "sport_end": 10,  
        "dport_filter": 2,  
        "dport_start": 100,  
        "dport_end": 65535  
    },  
    "tcp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0,  
        "fin": 0,  
        "syn": 0,  
        "rst": 0,  
        "psh": 0,  
        "ack": 0,  
        "urg": 0  
    }  
}  
}  
}]  
}
```

Frame_type : ipv6(TCP)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-8",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
      },
      "frame_type": "ipv6",
      "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "TCP",
        "next_header_value": 6,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": "1",
        "icmp": {
```

```
        "type_filter": 0,  
        "type_value": 0,  
        "code_filter": 0,  
        "code_value": 0  
    },  
    "udp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0  
    },  
    "tcp": {  
        "sport_filter": 1,  
        "sport_start": 10,  
        "sport_end": 10,  
        "dport_filter": 2,  
        "dport_start": 100,  
        "dport_end": 65535,  
        "fin": 0,  
        "syn": 1,  
        "rst": 2,  
        "psh": 2,  
        "ack": 1,  
        "urg": 0  
    }  
}  
}  
}]  
}
```

Frame_type : ipv6(Specific)

```
{
  "acl": {
    "ace": [{
      "id": 1,
      "ingress_port": "1-8",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Filter",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
        "filter": "Any",
        "id": 0,
        "tag_priority": "5"
      },
      "frame_type": "ipv6",
      "ipv6": {
        "dmac_filter": "Any",
        "next_header_filter": "Specific",
        "next_header_value": 55,
        "sip_filter": "Specific",
        "sip_address": "::",
        "sip_bitmask": "FFFFFFF2",
        "hop_limit": "1",
        "icmp": {
```

```
        "type_filter": 0,  
        "type_value": 0,  
        "code_filter": 0,  
        "code_value": 0  
    },  
    "udp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0  
    },  
    "tcp": {  
        "sport_filter": 0,  
        "sport_start": 0,  
        "sport_end": 0,  
        "dport_filter": 0,  
        "dport_start": 0,  
        "dport_end": 0,  
        "fin": 0,  
        "syn": 0,  
        "rst": 0,  
        "psh": 0,  
        "ack": 0,  
        "urg": 0  
    }  
}  
  
}}  
  
}
```

Section:

Name	Data type	Allowed / Value	Default Value
id	Integer	1-256	
ingress_port	String	Port Ranges. "1,3,10" or "0": all ports	0
frame_type	String	"any", "ethernet", "arp", "ipv4", "ipv6"	any
policy->filter	String	"Any", "Specific"	Any
policy->value	Integer	0-255	0
policy->bitmask	String	0-FF	FF

action->mode	String	"Deny", "Permit", "Filter"	Permit
action->rate_limiter	Integer	1-16 or 0:Disabled	0
action->evc_policer	Boolean		false
action->evc_policer_id	Integer	1-256	1
action->mirror	Boolean		false
action->logging	Boolean		false
action->shutdown	Boolean		false
action->counter	Integer		
action->deny_port_redirect	String	deny mode used only. "1,3,10" or "0": all ports	0
action->filter_port	String	filter mode used only. "1,3,10" or "0": all ports	0
vlan->tagged	String	"Any", "Disabled", "Enabled"	Any
vlan->vid_filter	String	"Any", "Specific"	Any
vlan->vid	Integer	1-4095	1
vlan->tag_priority	String	"0", "1", "2", "3", "4", "5", "6", "7", "0-1", "2-3", "4-5", "6-7", "0-3", "4-7", "Any"	Any
ethernet->smac_filter	String	"Any", "Specific"	Any
ethernet->smac	String	<mac address>	
ethernet->dmac_filter	String	"Any", "Specific", "MC", "BC", "UC"	Any
ethernet->dmac	String	<mac address>	
ethernet->ether_type_filter	String	"Any", "Specific"	Any
ethernet->ether_type	String	0000-FFFF	FFFF
arp->smac_filter	String	"Any", "Specific"	Any
arp->smac	String	<mac address>	
arp->dmac_filter	String	"Any", "MC", "BC", "UC"	Any
parameters->type	String	"Any", "ARP", "RARP", "Other"	Any
parameters->op	String	"Any", "Reply", "Request"	Any
sender->filter	String	"Any", "Host", "Network"	Any
sender->address	String	<ip address>	
sender->mask	String	<ip address>	
target->filter	String	"Any", "Host", "Network"	Any
target->address	String	<ip address>	
target->mask	String	<ip address>	
arp->arp_smac_match	String	"Any", "0", "1"	Any

arp->arp_dmac_match	String	"Any", "0", "1"	Any
arp->arp_ip_eth_len	String	"Any", "0", "1"	Any
arp->arp_ip	String	"Any", "0", "1"	Any
arp->arp_eth	String	"Any", "0", "1"	Any
ipv4->dmac_filter	String	"Any", "MC", "BC", "UC"	Any
ipv4->protocol_filter	String	"Any", "ICMP", "UDP", "TCP", "Specific"	Any
ipv4->ip_ttl	String	"Any", "Non-zero", "Zero"	Any
ipv4->ip_fragment	String	"Any", "Yes", "No"	Any
ipv4->ip_option	String	"Any", "Yes", "No"	Any
ipv4->sip_filter	String	"Any", "Host", "Network"	Any
ipv4->sip	String	<ip address>	
ipv4->sip_mask	String	<ip address>	
ipv4->dip_filter	String	"Any", "Host", "Network"	Any
ipv4->dip	String	<ip address>	
ipv4->dip_mask	String	<ip address>	
ipv4->icmp->type_filter	Integer	0:"Any", 1:"Specific"	0
ipv4->icmp->type_value	Integer	0-255	0
ipv4->icmp->code_filter	Integer	0:"Any", 1:"Specific"	0
ipv4->icmp->code_value	Integer	0-255	0
ipv4->udp->sport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv4->udp->sport_start	Integer	0-65535	0
ipv4->udp->sport_end	Integer	0-65535	65535
ipv4->udp->dport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv4->udp->dport_start	Integer	0-65535	0
ipv4->udp->dport_end	Integer	0-65535	65535
ipv4->tcp->sport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv4-> tcp->sport_start	Integer	0-65535	0
ipv4-> tcp->sport_end	Integer	0-65535	65535
ipv4-> tcp->dport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv4-> tcp->dport_start	Integer	0-65535	0
ipv4-> tcp->dport_end	Integer	0-65535	65535
ipv4->tcp->fin	Integer	2:"Any", 1, 0	2
ipv4->tcp->syn	Integer	2:"Any", 1, 0	2
ipv4->tcp->rst	Integer	2:"Any", 1, 0	2
ipv4->tcp->psh	Integer	2:"Any", 1, 0	2
ipv4->tcp->ack	Integer	2:"Any", 1, 0	2
ipv4->tcp->urg	Integer	2:"Any", 1, 0	2

ipv4->protocol_value	Integer	0-255	
ipv6->dmac_filter	String	"Any", "MC", "BC", "UC"	Any
ipv6->next_header_filter	String	"Any", "ICMP", "UDP", "TCP", "Specific"	Any
ipv6->sip_filter	String	"Any", "Specific"	Any
ipv6->sip_address	String	<ipv6 address>	::
ipv6->sip_bitmask	String	0-FFFFFFFF	FFFFFFFF
ipv6->hop_limit	String	"Any", "1", "0"	Any
ipv6->icmp->type_filter	Integer	0:"Any", 1:"Specific"	0
ipv6->icmp->type_value	Integer	0-255	0
ipv6->icmp->code_filter	Integer	0:"Any", 1:"Specific"	0
ipv6->icmp->code_value	Integer	0-255	0
ipv6->udp->sport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv6->udp->sport_start	Integer	0-65535	0
ipv6->udp->sport_end	Integer	0-65535	65535
ipv6->udp->dport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv6->udp->dport_start	Integer	0-65535	0
ipv6->udp->dport_end	Integer	0-65535	65535
ipv6->tcp->sport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv6-> tcp->sport_start	Integer	0-65535	0
ipv6-> tcp->sport_end	Integer	0-65535	65535
ipv6-> tcp->dport_filter	Integer	0:"Any", 1:"Specific", 2:"Range"	0
ipv6-> tcp->dport_start	Integer	0-65535	0
ipv6-> tcp->dport_end	Integer	0-65535	65535
ipv6->tcp->fin	Integer	2:"Any", 1, 0	2
ipv6->tcp->syn	Integer	2:"Any", 1, 0	2
ipv6->tcp->rst	Integer	2:"Any", 1, 0	2
ipv6->tcp->psh	Integer	2:"Any", 1, 0	2
ipv6->tcp->ack	Integer	2:"Any", 1, 0	2
ipv6->tcp->urg	Integer	2:"Any", 1, 0	2
ipv6->next_header_value	Integer	0-255	

35. Delete ACL Config

URL: /api/del_acl_config

Method: POST

Request JSON:

```
{
  "acl": {
    "delete": [{
      "id": 1
    }, {
      "id": 3
    }]
  }
}
```

Response JSON:

```
{
  "acl": {
    "ace": [{
      "id": 2,
      "ingress_port": "2",
      "policy": {
        "filter": "Any",
        "value": 0,
        "bitmask": "FF"
      },
      "action": {
        "mode": "Permit",
        "rate_limiter": 0,
        "evc_policer": false,
        "evc_policer_id": 1,
        "mirror": false,
        "logging": false,
        "shutdown": false,
        "counter": 0,
        "deny_port_redirect": "0",
        "filter_port": "1-12"
      },
      "vlan": {
        "tagged": "Any",
```

```
        "filter": "Any",
        "id": 0,
        "tag_priority": "Any"
      },
      "frame_type": "any"
    ]
  }
}
```

36. Set SSL Key

URL: /api/create_ssl_key

Method: POST

Request JSON:

```
{
  "ssl_key": {
    "cert_maintain": "Upload",
    "cert_pass_phrase": "",
    "url": "http://192.168.111.183/test.pem"
  }
}
```

Section:

Name	Data type	Allowed / Value	Default Value
cert_maintain	String	"Upload", "Generate"	Upload
cert_pass_phrase	String	0-64 alphanumeric	
url	String	<URL>	

37. Get SSL Key Status

URL: /api/get_ssl_key_status

Method: GET

Request JSON: null

Response JSON:

```
{
  "ssl_key": {
    "status": "Switch secure HTTP certificate is presented"
  }
}
```

38. 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".

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
count	Integer	1-60	5
length	Integer	2-1452 Bytes	56
vlan	Integer	<Vlan ID> (Note : "host" is <IPv6 Address> used.)	1

39. Get Ping Status

URL: /api/get_ping_status

Method: GET

Request JSON: null

Response JSON:

```
{
  "ping": {
    "status": "done",
    "message": "PING server 192.168.111.183, 56 bytes of data.\nrecvfrom: Operation
timed out\nrecvfrom: Operation timed out\nrecvfrom: Operation timed out\n
recvfrom: Operation timed out\nrecvfrom: Operation timed out\nSent 5
packets,received 0 OK, 0 bad\n "
  }
}
```

Section:

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

40. Traceroute

URL: /api/traceroute

Method: POST

Request JSON:

```
{
  "traceroute": {
    "host" : "192.168.1.1",
    "version" : 4,
    "ip_protocol" : "ICMP",
    "wait_time" : 5,
    "max_ttl" : 5,
    "count" : 3
  }
}
```

Note: get action status used "Get Traceroute Status".

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

41. 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"

42. Activate Config

URL: /api/activate_config

Method: POST

Request JSON:

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

Response JSON:

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

Section:

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

43. 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",
      "di_normal_description": "",
      "di_abnormal_description": "",
      "do_normal_mode": "Open",
      "auto_recovery": false
    }
  }
}
```

44. 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",
      "di_normal_description": "",
      "di_abnormal_description": "",
      "do_normal_mode": "Open",
      "auto_recovery": false
    }
  }
}
```

Response JSON:

```
{
  "system": {
    "di_do": {
```

```
        "digital_out_mode": false,  
        "di_normal_mode": "High",  
        "di_normal_description": "",  
        "di_abnormal_description": "",  
        "do_normal_mode": "Open",  
        "auto_recovery": false  
    }  
}  
}
```

Section:

Name	Data type	Allowed / Value	Default Value
digital_out_mode	Boolean		false
di_normal_mode	String	"Low", "High"	High
di_normal_description	String		
di_abnormal_description	String		
do_normal_mode	String	"Open", "Close"	Open
auto_recovery	Boolean		false

45. 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"  
    }  
  }  
}
```

46. Set DO Relay

URL: /api/set_di_do_relay

Method: GET

Request JSON: null

Response JSON:

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

47. Get SNMP Trap Config

URL: /api/get_snmp_trap_config

Method: GET

Request JSON: null

Response JSON:

```
{
  "snmp": {
    "trap_mode": false,
    "trap": [{
      "name": "123",
      "mode": "Disabled",
      "version": "SNMPv2c",
      "community": "public",
      "dest_addr": "",
      "dest_port": 162,
      "inform_mode": false,
      "inform_timeout": 3,
      "inform_retries": 5,
      "probe_engine_id": false,
      "secu_engine_id": "",
      "secu_name": "None"
    },
    ... ..
  ]
}
```

48. Add SNMP Trap Config

URL: /api/add_snmp_trap_config

Method: POST

Request JSON:

```
{
  "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"
      }]
    }
  }
}
```

Response JSON:

```
{
  "snmp": {
    "trap_mode": false,
    "trap": [{
      "name": "test123",
      "mode": "UDP",
      "version": "SNMPv2c",
      "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"
    }}
}
}

```

Section:

Name	Data type	Allowed / Value	Default Value
trap-Mode	Boolean		false
name	String	length is 1 to 32, the allowed content is ASCII characters from 33 to 126	
mode	String	"TCP", "UDP", "Disabled"	Disabled
version	String	"SNMP v1", "SNMP v2c", "SNMP v3"	SNMP v2
community	String	length is 1 to 32, the allowed content is ASCII characters from 33 to 126	
dest_addr	String	<IPv4 Address> <IPv6 Address> <Host Name>	
dest_port	Integer	1~65535	162
inform_mode	Boolean		false
inform_timeout	Integer	0-2147	3
inform_retries	Integer	0-255	5
probe_engine_id	Boolean		false
secu_engine_id	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.	
secu_name	String		None

49. Delete SNMP Trap Config

URL: /api/del_snmp_trap_config

Method: POST

Request JSON:

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

Response JSON:

```
{
  "snmp": {
    "trap_mode": false,
    "trap": []
  }
}
```

Section:

Name	Data type	Allowed / Value	Default Value
trap-Mode	Boolean		false
name	String	length is 1 to 32, the allowed content is ASCII characters from 33 to 126	

50. 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.

51. Clear System Log

URL: /api/clear_syslog

Method: GET

Request JSON: null

Response JSON:

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


52. 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.

cURL Commands v 1.4

```
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

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":"SISPM1040-582-
LRT"},"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 '{"ports":[{"id": 1,"poe":{"mode":"8023bt","priority":"Low",
"schedule":"Disabled","lldp": true,"legacy": false}}]}' 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":"2017-07-01 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": 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

curl -v --cookie "seid=123456789" -d '{"ssl_key": {"cert_maintain": "Upload", "cert_pass_phrase": "", "url": "http://192.168.111.183/test.pem"}}' http://192.168.1.77/api/create_ssl_key

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

curl -v --cookie "seid=123456789" -d '{"ping": {"host": "192.168.1.1", "version": 4, "count": 5, "length": 56, "vlan": 1, "interval": 1}}' http://192.168.1.77/api/ping

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

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}}' http://192.168.1.77/api/traceroute

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

```
curl -v --cookie "seid=123456789" -d '{"system":{"config":{"activate_file":"startup-config"}}}'
```

```
http://192.168.1.77/api/activate_config
```

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

```
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
```

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

```
curl -v --cookie "seid=123456789" -d '{"system":{"di_do":{"do_relay_status": true}}}'  
http://192.168.1.77/api/set_di_do_relay
```

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

```
curl -v --cookie "seid=123456789" -d '{"acl":{"add":{"any":{"ingress_port": "1-5"},"policy":{"filter":  
"Any"},"value": 0,"bitmask": "FF"},"action":{"mode": "Permit"},"rate_limiter": 0,"evc_policer":  
true,"evc_policer_id": 1,"mirror": false,"logging": true,"shutdown": false,"deny_port_redirect":  
"0"},"filter_port": "1-12"},"vlan":{"tagged": "Any"},"filter": "Any"},"vid": 0,"tag_priority":  
"Any"},"frame_type": "any"}}}' http://192.168.1.77/api/add_acl_config
```

```
curl -v --cookie "seid=123456789" -d '{"acl":{"delete":{"id": 4}}}' http://192.168.1.77/api/del_acl_config
```

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

```
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
```

```
curl -v --cookie "seid=123456789" -d '{"snmp":{"trap_mode": false,"trap":{"delete":{"name":  
"test123"}}}}' http://192.168.1.77/api/del_snmp_trap_config
```

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

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

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

Record of Revisions

Rev.	Date	Description
A	11/19/20	Initial release for SISPM1040-582-LRT FW VB7.10.2658 (with bt support). Upgrade to FW vB7.10.2706, then upgrade to vB7.10.2710. Add cURL Commands v 1.0. Update for FW vB7.20.0016; add support for get/set DI/DO via API and add DIDO cURL commands v1.0.
B	3/25/21	FW VB7.20.0039: Add API commands for ACL (Add, Get, and Delete ACL config). Fix DI/DO API commands. Update cURL commands to v 1.3: add ACL commands and seid in login command.
C	5/3/21	VB7.20.0063: Add PoE Force mode. Add API commands Set SSL Key and Get SSL Key Status. Add API ping, traceroute, activate_config commands. Fix API, PoE, and Management loss issues. Add Get SNMP Trap Config, SNMP Trap Config, Delete SNMP Trap Config, Get System Log, Clear System Log, and Get SFP Port Detail commands. Update API cURL commands to v1.4.

Note: Minimum version of firmware required: VB7.10.2658.