



Restful API Guide

INT1G30TXSFE-AC

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Restful API Basics

The restful API supports JSON over HTTPS. The restful API data types supported; GET, POST, and PUT.

This document contains restful API syntax examples that may be used as a reference. The specific restful API syntax may be captured using the GUI under the Developer Tools / Network / Headers and Preview.

Login

This example uses the default username and password, admin/gtadmin1. Upon successfully logging in the unit will return a Cookie / Session ID. The Session ID must be used as part of all additional commands sent to the unit.

POST `https://xxx.xxx.xxx.xxx/login`

Body Syntax Example

```
{"username": "admin", "password": "gtadmin1", "rememberme": true}
```

Example Session ID:

Set-Cookie: session=id=9iNS4gEJC0sQ9QcgVPd;path=/

Note: Once a session has been established it is controlled by the Key Press Timeout value, 60 to 3600 seconds. The Key Press Timeout value can be modified using the “Edit Chassis Name / Key Press Timeout” option in Section 2. System. The Key Press Timeout may be displayed and reset using the following options.

Display Public Information

GET `https://xxx.xxx.xxx.xxx/sysInfoPublic`

Display Key Press Timeout

GET `https://xxx.xxx.xxx.xxx/active`

Reset Key Press Timeout (60-3600 seconds)

PUT `https://xxx.xxx.xxx.xxx/miscCfg`

Body Syntax Example

```
{"chassisName": "System Test", "keyPressTimeout": "3000"}
```

Logout

POST `https://xxx.xxx.xxx.xxx/logout`

System

Display System Information

GET <https://xxx.xxx.xxx.xxx/sysInfo>

Display General System Setting

GET <https://xxx.xxx.xxx.xxx/miscCfg>

Edit Chassis Name / Key Press Timeout

PUT <https://xxx.xxx.xxx.xxx/miscCfg>

Body Syntax Example

```
{"chassisName": "NewChassisName", "keyPressTimeout": "60"}
```

Note: Key press timeout range 60-3600 seconds.

Display Authentication

GET <https://xxx.xxx.xxx.xxx/authentication>

Enable Primary TACACS

PUT <https://xxx.xxx.xxx.xxx/authentication>

Body Syntax Example

```
{"local": true, "tacacs": {"on": true, "server": "192.168.1.166", "secret": "xyz", "timeout": "5"}, "tacacs2": {"on": false, "server": "10.10.10.200", "secret": "xyz", "timeout": "5"}}
```

Disable Primary TACACS

PUT <https://xxx.xxx.xxx.xxx/authentication>

Body Syntax Example

```
{"local": true, "tacacs": {"on": false, "server": "192.168.1.166", "secret": "xyz", "timeout": "5"}, "tacacs2": {"on": false, "server": "10.10.10.200", "secret": "xyz", "timeout": "5"}}
```

Enable Secondary TACACS

PUT <https://xxx.xxx.xxx.xxx/authentication>

Body Syntax Example

```
{ "local": true, "tacacs": { "on": false, "server": "10.10.10.200", "secret": "xyz", "timeout": "5" }, "tacacs2": { "on": true, "server": "192.168.1.173", "secret": "richardson1", "timeout": "5" } }
```

Disable Secondary TACACS

PUT <https://xxx.xxx.xxx.xxx/authentication>

Body Syntax Example

```
{ "local": true, "tacacs": { "on": false, "server": "10.10.10.200", "secret": "xyz", "timeout": "5" }, "tacacs2": { "on": false, "server": "192.168.1.173", "secret": "richardson1", "timeout": "5" } }
```

Display Privilege

GET <https://xxx.xxx.xxx.xxx/availablePrivileges>

Display Group

GET <https://xxx.xxx.xxx.xxx/groups>

Create Group

POST <https://xxx.xxx.xxx.xxx/groupAdd>

Body Syntax Example

```
{ "name": "NewGroup", "privileges": [ "AAA", "USR", "DTC", "DTV", "EXC", "IPC", "IPV", "LGC", "LGV", "MIS", "PBC", "PBV", "PTC", "PTV", "RBT", "TPC", "TPV", "UPG", "ADM" ] }
```

Note: Privileges may be added or removed as desired.

AAA	authentication, authorization, account
ADM	user administrator
DTC	date, time, ntp configuration
DTV	date, time, ntp view
EXC	export/import
IPC	maintenance network ip configuration
IPV	maintenance network ip view
LGC	syslog, snmp configuration
LGV	syslog, snmp view

MIS	miscellaneous
PBC	packet broker configuration
PBV	packet broker view
PTC	port configuration
PTV	port view
RBT	chassis reboot
TPC	tap config
TPV	tap view
UPG	software field upgrade
USR	account configuration

Modify Group

POST <https://xxx.xxx.xxx.xxx/groupChange>

Body Syntax Example

```
{"name": "NewGroup", "privileges": ["MIS", "PBC", "PBV", "PTC"], "oldName": "NewGroup"}
```

Delete Group

POST <https://xxx.xxx.xxx.xxx/groupDelete>

Body Syntax Example

```
{"name": "NewGroup"}
```

Display User

GET <https://xxx.xxx.xxx.xxx/userAll>

Create User

POST <https://xxx.xxx.xxx.xxx/userAdd>

Body Syntax Example

```
{"username": "NewUser", "password": "NewUserPW", "group": "NewGroup"}
```

Change User Password

POST <https://xxx.xxx.xxx.xxx/userChange>

Body Syntax Example

```
{"username": "User123", "password": "NewPW", "group": "Group", "oldUsername": "User123"}
```

Delete User

POST <https://xxx.xxx.xxx.xxx/userDelete>

Body Syntax Example

```
{"username": "NewUser"}
```

Display Network Setting

GET <https://xxx.xxx.xxx.xxx/maintNetwork>

Display Date & Time

GET <https://xxx.xxx.xxx.xxx/dateTime>

Display Time Zone

GET <https://xxx.xxx.xxx.xxx/timezones>

Enable NTP No Authentication

PUT <https://xxx.xxx.xxx.xxx/dateTime>

Body Syntax Example

```
{"timeZone": "America/Chicago", "ntp": {"on": true, "ipAddress": "192.168.1.132", "authentication": "none", "authSym": {"keynum": "1", "keytype": "MD5", "key": "key"}}, "date": "5/30/2024", "ntpStatus": "off", "time": "10:51"}
```

Enable NTP Authentication

PUT <https://xxx.xxx.xxx.xxx/dateTime>

Body Syntax Example

```
{"timeZone": "America/Chicago", "ntp": {"on": true, "ipAddress": "192.168.1.132", "authentication": "symmetric", "authSym": {"keynum": "1", "keytype": "md5", "key": "%M5zLv16t~/CT\D<JI3`"}, "date": "5/30/2024", "ntpStatus": "off", "time": "10:52"}
```

Disable NTP

PUT <https://xxx.xxx.xxx.xxx/dateTime>

Body Syntax Example

```
{"timeZone": "America/Chicago", "ntp": {"on": false, "usePool": false, "ipAddress": "xxx.xxx.x  
xx.xxx"}, "date": "2/10/2021", "time": "15:33"}
```

Set Date/Time Manually

PUT <https://xxx.xxx.xxx.xxx/dateTime>

Body Syntax Example

```
{"timeZone": "America/Chicago", "ntp": {"on": false, "ipAddress": "127.0.0.1", "authenticatio  
n": "none", "authSym": {"keynum": "1", "keytype": "MD5", "key": "key"}}, "date": "5/30/2024", "nt  
pStatus": "off", "time": "11:26"}
```

Set Network Setting

PUT <https://xxx.xxx.xxx.xxx/maintNetwork>

Body Syntax Example

```
{"ipv4Enable": true, "loadedSslCertUsed": false, "sslCertLoaded": false, "address": "192.168.  
1.28/24", "mask": "255.255.255.0", "gateway": "192.168.1.1", "ipv6Enable": false, "ipv6Addres  
s": "", "ipv6Gateway": "", "currentIpv4Address": "192.168.1.28", "currentIpv6Address": ""}
```

Display Syslog

GET <https://xxx.xxx.xxx.xxx/syslogCfg>

Enable Syslog

PUT <https://xxx.xxx.xxx.xxx/syslogCfg>

Body Syntax Example

```
{"on": true, "useUnitId": false, "unitId": "0", "ipAddress": "xxx.xxx.xxx.xxx", "protocol": "UD  
P", "port": "514"}
```

Syslog Test

POST <https://xxx.xxx.xxx.xxx/syslogTest>

Disable Syslog

PUT <https://xxx.xxx.xxx.xxx/syslogCfg>

Body Syntax Example

```
{"on": false, "useUnitId": false, "unitId": "0", "ipAddress": "xxx.xxx.xxx.xxx", "protocol": "U  
DP", "port": "514"}
```

Display SNMP

GET <https://xxx.xxx.xxx.xxx/snmpCfg>

Enable SNMPv2rw

PUT <https://xxx.xxx.xxx.xxx/snmpCfg>

Body Syntax Example

```
{"on":true,"accessPort":"161","trapPort":"162","trapIpAddress":"xxx.xxx.xxx.xxx","v3user":"user1234","v3authType":"MD5","v3authPass":"auth1234","v3privPass":"priv1234","v3privProt":"DES","communityPassword":"public","mode":"v2rw"}
```

Enable SNMPv3 MD5/DES

PUT <https://xxx.xxx.xxx.xxx/snmpCfg>

Body Syntax Example

```
{"on":true,"accessPort":"161","trapPort":"162","trapIpAddress":"xxx.xxx.xxx.xxx","v3user":"user1234","v3authType":"MD5","v3authPass":"auth1234","v3privPass":"priv1234","v3privProt":"DES","communityPassword":"public","mode":"v3"}
```

Enable SNMPv3 SHA/AES

PUT <https://xxx.xxx.xxx.xxx/snmpCfg>

Body Syntax Example

```
{"on":true,"accessPort":"161","trapPort":"162","trapIpAddress":"xxx.xxx.xxx.xxx","v3user":"user1234","v3authType":"SHA","v3authPass":"auth1234","v3privPass":"priv1234","v3privProt":"AES","communityPassword":"public","mode":"v3"}
```

SNMP Test

POST <https://xxx.xxx.xxx.xxx/snmpTest>

Disable SNMP

PUT <https://xxx.xxx.xxx.xxx/snmpCfg>

Body Syntax Example

```
{"on":false,"accessPort":"161","trapPort":"162","trapIpAddress":"xxx.xxx.xxx.xxx","v3user":"user","v3authType":"MD5","v3authPass":"auth1234","v3privPass":"prov1234","v3privProt":"DES","communityPassword":"gtpublic","mode":"v2rw"}
```

Reboot

POST <https://xxx.xxx.xxx.xxx/reboot>

Packet Broker

Display Packet Broker Configuration

GET <https://xxx.xxx.xxx.xxx/pbConfig>

Display Filter Template

GET <https://xxx.xxx.xxx.xxx/filterTemplates>

Create Filter Template

POST <https://xxx.xxx.xxx.xxx/filterTemplateAdd>

Body Syntax Example

```
{ "name": "Example", "description": "", "enabled": true, "filterType": "PASSBY", "srcMac": "", "srcMacMask": "ff:ff:ff:ff:ff:ff", "dstMac": "", "dstMacMask": "ff:ff:ff:ff:ff:ff", "etherType": "", "srcIp": "10.10.10.10", "srcIpMask": "255.255.255.255", "dstIp": "", "dstIpMask": "255.255.255.255", "innerVlanId": "", "outerVlanId": "", "dscp": "", "ipProtocol": "", "l4SrcStartPort": "", "l4SrcEndPort": "", "l4DstStartPort": "", "l4DstEndPort": "", "egressFilterPort": "" }
```

Note: The filter type may be PASSALL, PASSBY or DENYBY.

Modify Filter Template

POST <https://xxx.xxx.xxx.xxx/filterTemplateChange>

Body Syntax Example

```
{ "name": "Example", "description": "", "enabled": true, "filterType": "PASSBY", "dstMac": "", "dstMacMask": "ff:ff:ff:ff:ff:ff", "srcMac": "", "srcMacMask": "ff:ff:ff:ff:ff:ff", "etherType": "", "ipProtocol": "", "srcIp": "10.10.10.20", "srcIpMask": "255.255.255.255", "dstIp": "", "dstIpMask": "255.255.255.255", "l4SrcStartPort": "", "l4DstStartPort": "", "l4SrcEndPort": "", "l4DstEndPort": "", "outerVlanId": "", "innerVlanId": "", "dscp": "", "egressFilterPort": "", "oldName": "Example" }
```

Delete Filter Template

POST <https://xxx.xxx.xxx.xxx/filterTemplateRemove>

Body Syntax Example

```
{ "name": "NewFilterTemp" }
```

Display Load Balance Group

GET <https://xxx.xxx.xxx.xxx/loadBalanceGroups>

Create Load Balance Group

POST <https://xxx.xxx.xxx.xxx/loadBalanceGroupAdd>

Body Syntax Example

```
{"name": "NewLBGroup", "description": "", "ports": ["17", "19", "23", "24"]}
```

Note: String all desired ports as shown in the example above.

Modify Load Balance Group

POST <https://xxx.xxx.xxx.xxx/loadBalanceGroupChange>

Body Syntax Example

```
{"name": "NewLBG", "description": "", "ports": ["21", "22", "23", "24", "26"],  
"oldName": "NewLBG"}
```

Delete Load Balance Group

POST <https://xxx.xxx.xxx.xxx/loadBalanceGroupRemove>

Body Syntax Example

```
{"name": "NewLBGroup"}
```

Display Load Balance Policy

GET <https://xxx.xxx.xxx.xxx/lbPolicy>

Modify Load Balance Policy

PUT <https://xxx.xxx.xxx.xxx/lbPolicy>

Body Syntax Example

```
{"ipv4Src": "YES", "ipv4Dst": "YES", "l4SrcPort": "NO", "l4DstPort": "NO", "macSrc": "NO", "macDst": "NO"}
```

Note: The Load Balance Policy allows L2 to be enabled or L3 and/or L4 to be enabled.

Display Config Map Counts

GET <https://xxx.xxx.xxx.xxx/configMapCounts>

Create Config Map / Ingress Filter

POST <https://xxx.xxx.xxx.xxx/configMapAdd>

Body Syntax Example

```
{
  "loadBalanceGroup": {},
  "configMap": {
    "ingressPorts": ["03"],
    "egress": {
      "ports": ["04"],
      "trunkGroup": "",
      "name": "",
      "description": "",
      "enabled": true,
      "ingressFilters": [
        {
          "name": "Example",
          "description": "",
          "enabled": true,
          "filterType": "PASSBY",
          "srcMac": "",
          "srcMacMask": "ff:ff:ff:ff:ff:ff",
          "dstMac": "",
          "dstMacMask": "ff:ff:ff:ff:ff:ff",
          "etherType": "",
          "srcIp": "",
          "srcIpMask": "255.255.255.255",
          "dstIp": "10.10.10.10",
          "dstIpMask": "255.255.255.255",
          "innerVlanId": "",
          "outerVlanId": "",
          "dscp": "",
          "ipProtocol": "",
          "l4SrcStartPort": "",
          "l4SrcEndPort": "",
          "l4DstStartPort": "",
          "l4DstEndPort": "",
          "egressFilterPort": ""
        }
      ]
    }
  }
}
```

Note: Multiple ingress ports, egress ports and ingress filters may be added.

Create Config Map / Ingress Filter / Egress Filter

POST <https://xxx.xxx.xxx.xxx/configMapAdd>

Body Syntax Example

```
{
  "loadBalanceGroup": {},
  "configMap": {
    "ingressPorts": ["03"],
    "egress": {
      "ports": ["04"],
      "trunkGroup": "",
      "name": "",
      "description": "",
      "enabled": true,
      "ingressFilters": [
        {
          "name": "Example",
          "description": "",
          "enabled": true,
          "filterType": "PASSBY",
          "srcMac": "",
          "srcMacMask": "ff:ff:ff:ff:ff:ff",
          "dstMac": "",
          "dstMacMask": "ff:ff:ff:ff:ff:ff",
          "etherType": "",
          "srcIp": "10.10.10.10",
          "srcIpMask": "255.255.255.255",
          "dstIp": "",
          "dstIpMask": "255.255.255.255",
          "innerVlanId": "",
          "outerVlanId": "",
          "dscp": "",
          "ipProtocol": "",
          "l4SrcStartPort": "",
          "l4SrcEndPort": "",
          "l4DstStartPort": "",
          "l4DstEndPort": "",
          "egressFilterPort": ""
        }
      ],
      "egressFilters": [
        {
          "name": "Example",
          "description": "",
          "enabled": true,
          "filterType": "PASSBY",
          "srcMac": "",
          "srcMacMask": "ff:ff:ff:ff:ff:ff",
          "dstMac": "",
          "dstMacMask": "ff:ff:ff:ff:ff:ff",
          "etherType": "",
          "srcIp": "",
          "srcIpMask": "255.255.255.255",
          "dstIp": "10.10.10.10",
          "dstIpMask": "255.255.255.255",
          "srcIp6": "",
          "innerVlanId": "",
          "outerVlanId": "",
          "dscp": "",
          "ipProtocol": "",
          "l4SrcStartPort": "",
          "l4SrcEndPort": "",
          "l4DstStartPort": "",
          "l4DstEndPort": "",
          "egressFilterPort": "04"
        }
      ]
    }
  }
}
```

Note: Multiple ingress ports, egress ports, ingress filters and egress filters may be added.

Modify Config Map Priority

POST <https://xxx.xxx.xxx.xxx/configMapPriorityEnableChange>

Body Syntax Example

```
[{"name": "CM1", "enabled": true}, {"name": "CM2", "enabled": true}, {"name": "CM3", "enabled": true}]
```

Note: String the config maps as shown in the above example. The priority is established highest to lowest based on the order listed.

Enable/Disable Config Map

POST <https://xxx.xxx.xxx.xxx/configMapPriorityEnableChange>

Body Syntax Example

```
[{"name": "CM1", "enabled": true}, {"name": "CM2", "enabled": false}, {"name": "CM3", "enabled": true}]
```

Note: String the config maps as shown in the above example. Config maps may be enabled or disabled by modifying the “enabled” option true/false, true = enabled, false = disabled.

Delete Config Map

POST <https://xxx.xxx.xxx.xxx/configMapRemove>

Body Syntax Example

```
["CM1", "CM2", "CM3"]
```

Note: Identify the config map(s) using the “name”.

Clear Config Map Counters

POST <https://xxx.xxx.xxx.xxx/configMapCountsClear>

Refresh Config Map Counters

GET <https://xxx.xxx.xxx.xxx/configMapCounts>

Port Info

Display Port Configuration

GET <https://xxx.xxx.xxx.xxx/portConfigGet>

Modify Port Configuration

PUT <https://xxx.xxx.xxx.xxx/portConfigPut>

Body Syntax Example

```
{
  "ports": [
    {
      "portNumber": "1",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "2",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "3",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "4",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "5",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "6",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "7",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "8",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "9",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "10",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "11",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "12",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "13",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "14",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "15",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    },
    {
      "portNumber": "16",
      "speedSet": "1G",
      "mode": "normal",
      "description": "port description",
      "sfpvendorPn": "",
      "vlanIdTagAdd": 0,
      "vlanIdTagStrip": 0,
      "split": "NO"
    }
  ]
}
```

```
Number": "17", "speedSet": "1G", "mode": "normal", "description": "port
description", "sfpVendorPn": "", "vlanIdTagAdd": 0, "vlanIdTagStrip": 0, "split": "NO"}, {"port
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Note: Whenever modifying a port(s) all ports must be included in the body syntax.

Display Port Availability

GET <https://xxx.xxx.xxx.xxx/portAvailability>

Display Port Statistics

GET <https://xxx.xxx.xxx.xxx/portCounterGet>

Clear Port Statistics

PUT <https://xxx.xxx.xxx.xxx/portCounterClear>